A38 Derby Junctions

TR010022

Volume 6

6.3 Environmental Statement Appendices

Appendix 10.3: Preliminary Sources Study

Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

April 2019

Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

A38 Derby Junctions Development Consent Order 202[ ]

6.3 Environmental Statement Appendices
Appendix 10.3: Preliminary Sources Study

Regulation Number	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010022
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1	April 2019	DCO Application

HIGHWAYS AGENCY

Safe roads, reliable journeys, informed travellers

A38 Derby Junctions Improvement

Preliminary Sources Study

HA GDMS No. 28093

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An executive agency of the Department for Transport

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1 INTRODUCTION

The A38 is the strategic route from Birmingham to Derby, through to the M1 at Junction 28. The A38 carries significant volumes of long-distance traffic, and where it passes through Derby large volumes of local traffic cross, join or leave the A38 resulting in congestion at three at-grade roundabout junctions.

The Scheme comprises the re-modelling of the roundabouts to provide grade-separated junctions as follows:

- A38/A5111 Kingsway Junction.
- A38/A52 Markeaton Junction.
- A38/A61 Little Eaton Junction.

In addition, a flood compensation area for the River Derwent floodplain is proposed.

The Scheme location is shown on Drawing HA514503-URS-08-DR-GE-00.001.

Since 2001, URS (formerly Scott Wilson) has assisted the Highways Agency in several stages of options assessment for improvement of the junctions. A Statement of Intent(Ref 1) and a Preliminary Sources Study(Ref 2) were produced in 2003, and Annex A in 2004(Ref 3). A limited ground contamination investigation of an area close to Kingsway roundabout was carried out in 2005(Ref 4). The Statement of Intent was further updated in 2008.

Following the Autumn Statement on 5th December 2013, the Government announced that it was committed to funding nine schemes including the A38 Derby Junctions Improvement as part of the current spending round.

The Statement of Intent was updated in 2014 (47071319-URS-08-RP-GE-002) provides updated information relevant to the progress of the Scheme within PCF stages 1 to 3.

This Preliminary Sources Study has been updated to account for the current proposed alignment options shown on URS Drawings HA514503-URS-08-DR-GE-25.002 to 004 and HA514503-URS-08-DR-GE-00.005 to 007.

2 SOURCES OF INFORMATION & DESK STUDY

The following sources of information have been consulted or are referenced:

1. A38 Derby Junctions, Statement of Intent, Scott Wilson Kirkpatrick & Co Ltd, KHXCC/GEO/1045, 2003.
2. HAGDMS No. 19383 –A38 Derby Junctions, Preliminary Sources Study, Scott Wilson Kirkpatrick & Co Ltd, KHXCC/GEO/1091, 2003.
3. HAGDMS No. 21215 – Annex A to the Preliminary Sources Study, Scott Wilson Kirkpatrick & Co Ltd, KHXCC/GEO/1155, 2004.
4. HAGDMS No. 19332 - Risk Assessment for the Re-Use of Materials Arising from Highway Construction, (Scott Wilson, D0KHXCC/INT/002, June 2005).
5. British Geological Survey 1:50,000 Sheet 125 (Derby, Bedrock and Superficial), 2014.
6. British Geological Survey 1:50,000 Sheet 125 (Derby, Solid and Drift), 1972.
7. Geology of the Country North of Derby, DV Frost & JGO Smart, Geological Survey of Great Britain, 1979.
8. British Geological Survey, 1:10,560 Map Sheet SK33NW, 1969.
9. British Geological Survey, 1:10,560 Map Sheet SK33NE, 1969.
10. British Geological Survey, 1:10,560 Map Sheet SK34SE, 1969.
11. HAGDMS. British Geological Survey DiGMapGB-50, 2010.
12. HAGDMS No. 13010 - Site Investigation Report for Department of Transport, Midland Road Construction Unit at Derby Ring Road, Allestree Improvement – Volume 1, Factual Report. (A. Monk & Company Ltd, SI.1576/GHJ/SG, January 1978).
13. HAGDMS No. 13010 - Site Investigation Report for Department of Transport, Midland road Construction Unit at Derby Ring Road, Allestree Improvement – Volume 2, Engineering Recommendations. (A. Monk & Company Ltd, SI.1576/GEB/SG, January 1978).
14. HAGDMS No. 13691 - Midland Road Construction Unit, Derby Ring Road, Allestree Improvement – Report on Site Investigation No.3, Volume 1. (Exploration Associates Ltd, S2543, 1980).
15. HAGDMS No. 13691 - Midland Road Construction Unit, Derby Ring Road, Allestree Improvement – Report on Site Investigation No.3, Volume 2. (Exploration Associates Ltd, S2543, 1980).
16. HAGDMS No. 28015 - Geotechnical Statement of Intent, (URS infrastructure & Environment Ltd, Ref. 47071319-URS-08-RP-GE-002, August 2014).
17. HAGDMS No. 9772 – London to Inverness Trunk Road, Derby Ring Road, Allestree Improvement Earthworks Certification (Unknown Author, Ref. 069/001/001630, June 1979).
18. HAGDMS No. 3971 - Midland Road Construction Unit, Exeter – Leeds Trunk Road A61, Little Eaton to Holbrook Improvement, Supplementary Soil Survey (Exploration Associates, S1256, July 1975).
19. HAGDMS No. 7330 - A61 Exeter Leeds Trunk Road Little Eaton - Holbrook Improvement Soil Survey Report, Volume 1 (Exploration Associates Limited,1973).

20. HAGDMS No. 3973 - A61 Exeter Leeds Trunk Road Little Eaton - Holbrook Improvement Soil Survey Report, Volume 2 (Exploration Associates Limited,1973).
21. HAGDMS No. 11103 - Midland Road Construction Unit, Exeter – Leeds Trunk Road A61, Little Eaton to Holbrook Improvement, Supplementary Report - Moor Lane Bridge Site, (Exploration Associates, S562,1972).
22. HAGDMS No. 7296 - London to Inverness Trunk Road, A5111/A6 Site Investigation (Geo Research Limited,1972).
23. HAGDMS No. 7057 – Exeter - Leeds Trunk Road, Allestree to Little Eaton Link A6-A61 Soil Survey (Derbyshire County Council Bridges and Highway Department, 069/001/005632, June 1966).
24. A38 Little Eaton Economy GI, Derbyshire. Factual Report on Ground Investigation (Costain Environmental Services, Issue 2, February 2013).
25. British Geological Survey borehole logs:
    a. SK34SE22 & 23 (A6 / A61 Link)
    b. SK33NE557 & 558 (A61 Stores Road Diversion)
    c. SK33NW112 to 127, 141 & 144 (Allestree/Ashbourne Rd)
    d. SK33NW172 to 175 & 185 - 186 (Exeter Leeds Trunk Road A38)
26. HAGDMS No. 27207 - A38 Little Eaton Economy. Ground Investigation and Geotechnical Design Report (A-one+, Version 1, July 2013).
27. Landmark Envirocheck Report - Kingsway Junction - Report Ref. No. 60387304.
28. Landmark Envirocheck Report - Markeaton Junction - Report Ref. No. 60387091.
29. Landmark Envirocheck Report - Little Eaton Junction - Report Ref. No. 60386902.
30. Environment Agency Groundwater Vulnerability Map 1:100 000, Sheet 23 (Leicester).
31. Aerial Photographs. For list refer to Appendix E.
32. InfoTerra / Astrium, Digital Terrain Model (NAIS), 31st December 2008, www.hagdms.co.uk.
33. AJS Structural Design Ltd. Site investigation on Land at Little Eaton Derbyshire.
34. HAGDMS No. 3579 – A38 Mickleover Bypass and Link Road – Site Investigation (Geo Research Limited. 1970).
35. HAGDMS No. 7143 – A38 + A516 Report On Soil Survey.
36. Derbyshire County Council – Exeter – Leeds Trunk Road. Allestree Little Eaton Link A6 A61.

3 FIELD STUDIES

3.1 Principal Earthwork Inspections

Principal Inspections of earthworks assets have been carried out on the A38 over the last decade as part of the Highways Agency Area 7 (partly Area 14 prior to 2002) Commission. These included earthworks located at or around the Little Eaton, Markeaton and Kingsway junctions.

- Scott Wilson: 2001 - 2002,
- Scott Wilson: 2006 - 2008,
- A-one+: 2010 - 2011.

The condition of the earthworks are summarised below.

3.1.1 Kingsway Junction

The inspections record that for the best part, Kingsway Junction is primarily raised on densely vegetated embankments varying in height, from 5 m in the north increasing to the centre reaching ~12.5 m and reducing to the south to 1.5 m. The south-eastern edge of the roundabout is at-grade and in cutting up to 6.1 m deep. The wide grassed verge between the carriageways, north of the junction, is at grade with the road. The verge between the carriageways, south of the junction, is deepened locally (to a max. 12.5 m) by the passage of Bramble Brook; the remaining verge is at grade with the carriageway. The southernmost extent of the site adjacent to the northbound A38 enters in to a 3.5 m deep cutting. The earthwork extents and identification numbers are given on Drawing HA514503-URS-08-DR-GE-25.002.

The centre of the Junction comprises steep (up to 32°) densely vegetated embankments estimated to reach a maximum depth of ~15 m below existing carriageway level. This area acts as storm water storage for Derby and is crossed by the channels of Bramble Brook and local culverts. The natural topography rises from the centre of the junction, steeply towards the south-east and more gently to the north-east.

The recent Principal Earthwork Inspections have identified the following defects (Table 3.1) which have not been remediated. These are noted to have occurred on the internal slope face of the roundabout and the northbound approach where the carriageway is in cutting.

Table 3.1: Kingsway Junction – Defect Summary

HAGDMS Defect ID	Defect	Date	Comment
36755_252483	Soil slip at crest; minor terracing with some soil ravelling	06/03/2007 & 24/01/2011	No remedial works identified on HAGDMS
36758_472291	Blocked drainage	28/02/2011	No remedial works identified on HAGDMS. Located on at-grade section south of 36759.
36759_473263	Dislocated trees	06/03/2007 & 28/02/2011	No remedial work identified on HAGDMS, not confirmed by subsequent inspection
36767_252617	Soil slip at crest	06/03/2007 & 28/02/2011	No remedial work identified on HAGDMS
36767_473331	Slip at crest	28/02/2011	No remedial work identified on HAGDMS
37058_254047	Erosion from leaking manhole under-cutting adjacent slope	12/03/2007	No remedial work identified on HAGDMS
37058_254055	Animal burrows	12/03/2007	No remedial work identified on HAGDMS
37058_254064	Minor slip / tension crack at crest	12/03/2007	No remedial work identified on HAGDMS
37089_254188	Minor soil slip in upper slope	08/03/2007 & 24/01/2011	No remedial work identified on HAGDMS
37089_254189	Soil slip at crest	08/03/2007 & 24/01/2011	No remedial work identified on HAGDMS
37210_254687	Animal burrows	12/03/2007 & 24/02/2011	No remedial work identified on HAGDMS
37210_472294	Tension crack	12/03/2007 & 24/02/2011	No remedial works identified on HAGDMS
37211_254766	Minor soil slip and some dislocated trees	12/03/2007 & 24/02/2011	No remedial works identified on HAGDMS
37211_472302	Tension crack / slip at crash barriers	08/03/2007 & 24/02/2011	No remedial work identified on HAGDMS
37211_472305	Dislocated trees	12/03/2007 & 24/02/2011	No remedial work identified on HAGDMS, not confirmed by subsequent inspection
37211_472306	Slip at crest	08/03/2007 & 24/02/2011	No remedial work identified on HAGDMS, not confirmed by subsequent inspection
37211_472307	Dislocated trees at the toe	08/03/2007 &	No remedial work identified

		24/02/2011	on HAGDMS
37613_255935	Retaining wall cracking in the mortar	12/03/2007 & 24/02/2011	No remedial works identified on HAGDMS
37766_472282	Slip at crest, mossy tension crack, and pond at toe	12/03/2007 & 24/02/2011	No remedial works identified on HAGDMS
37770_256757	Dislocated trees	13/03/2007	No remedial works identified on HAGDMS
37778_472287	Tension crack 10cm wide	20/03/2007 & 24/02/2011	No remedial works identified on HAGDMS

3.1.2 Markeaton Junction

The inspections record that Markeaton Junction is primarily at grade, the carriageway follows the natural topography and is divided in to two halves at the point which it crosses the A52 at the lowest elevation. The northern section is called the Queensway and the southern section is called the Kingsway. The verges are all sparsely vegetated with grass and a few mature trees or comprise pedestrian footpaths and urban development. There is a 200 m section of the Kingsway on both sides which are in shallow cutting (no depth or angle details given) approximately 200 m south of Markeaton Roundabout. The area is developed on all sides except to the north-west, where Markeaton Park lies.

The Principal Earthwork inspections recorded the area to be at-grade and cutting with no defects identified. The earthwork extents and identification numbers are given on Drawing HA514503-URS-08-DR-GE-25.003.

Markeaton Junction has recently undergone development known as the Economy “Pinch Point” scheme to alleviate congestion of the junction. This scheme comprised of verge widening to accommodate additional lanes and the reshaping of the roundabout as follows:

- The southbound Queensway diverge lane on the A52.
- The northbound Kingsway diverge lane on the A52.
- The A52 westbound toward Mackworth.

3.1.3 Little Eaton Junction

The inspections record that for the best part, the approaches to Little Eaton Junction are situated on embankments which are inclined at up to 30°, although typically are 1(v):2(h) and heights vary from grade to ~10 m. These slopes are densely vegetated with brambles, shrubs and medium-sized trees. Drainage typically comprised a gravel pipe at the embankment toe. The inspections identified a number of defects (Table 3.2). The earthwork extents and identification numbers are given on Drawing HA514503-URS-08-DR-GE-25.004.

Table 3.2: Little Eaton Junction – Defect Summary

HAGDMS Defect ID	Defect	Date	Result
38298_259870	Dislocated trees	27/03/2007 & 25/11/2010	No remedial work identified on HAGDMS
38385_464164	Subsidence, circular top slope with settlement in the verge	18/04/2007 & 25/11/2010	No remedial work identified on HAGDMS. Located north of Scheme extent.
40135_464110	Depression Settlement at Base of Sign	25/04/2007 & 25/11/2010	No remedial work identified on HAGDMS, not confirmed by subsequent inspection

Little Eaton Junction has recently undergone development known as the Economy "Pinch Point" scheme to alleviate congestion of the junction. This scheme utilises gabion baskets, ranging from 6.5 m to 1 m high, at three sections to provide wider embankments to the existing arrangement to accommodate additional lanes.

- A38 Northbound Approach – widening the embankment from the railway bridge to the Little Eaton Roundabout – Solution 6.5 m gabion wall
- A61 Northbound Approach – widening the embankment from Derby to the Little Eaton Roundabout – Solution 3.5 m gabion wall.
- A38 to A61 Southbound Exit Slip – widening the embankment east of the Little Eaton Roundabout – Solution 1 m gabion wall.

3.2 Site Walkover Surveys

Four site visits were made to each of the junctions and their surrounding areas, in March and September 2003; December 2014; and January 2015, to assess the general layout, and gain a preliminary appreciation of the site conditions that may be encountered during ground investigation works. A series of photographs were taken to record the layouts, and these are presented in Appendices A-1 and A-2.

3.3 Risk Assessment for the Re-use of Materials Arising from Highway Construction at Kingsway Junction (June 2005)

Scott Wilson (now URS) directed Ground Solutions Group (GSG) to undertake a small ground investigation in March 2005. The ground investigation comprised of 6 windowless sampling holes, chemical testing of 14 soil samples and 6 groundwater samples. The information obtained from the ground investigation was used to support a risk assessment[(Ref 4)] for the re-use of soil materials.

The 2005 investigation identified that the embankments contained:

- Made Ground which was described as slightly sandy clay containing brick and ash fragments or as dense black ash with brick fragments. The ash is likely to be derived from foundry sand which together with the clay / brick forms the bulk of the embankment.

- Hardstanding which may be a possible old road surface.

A risk assessment for the re-use of the materials was undertaken in line with guidance current in 2005. For the human health risk assessment soil concentrations were compared against SGVs for industrial / commercial end use. The finding of the risk assessment concluded that the clay, ash, brick and sand material is suitable for re-use in the proposed works without the need for special precautions. The assessment of leachate test results and a controlled water risk assessment indicated that the recorded concentrations of potential contaminants did not pose a significant risk to Bramble Brook or other controlled waters. It was recommended that surface water sampling was undertaken during the construction phase to establish the current impact on controlled waters and confirm that no pollution has occurred during the proposed works.

The report recommended that the old road surface materials are not re-used within the scheme but are removed and disposed of offsite. However, if the old road material was further tested to include speciated TPH and PAH, and quantitative risk assessment to assess the impact on human health and/or controlled waters, then there is a possibility that it may be re-used.

4 SITE DESCRIPTION

4.1 Geography and Topography

The three junctions are located as shown on Drawing HA514503-URS-08-DR-GE-00.001:

- The A38 / A5111 Kingsway Junction is located approximately 2.5 km due west of the city centre (NGR SK 327 360).
- The A38 / A52 Markeaton Junction is located approximately 2 km west-north-west of the city centre (NGR SK 334 369)
- The A38 / A61 Little Eaton Junction is located approximately 4 km north of the city centre (NGR SK 363 339).

A series of photographs were taken to record the layouts in 2003, and 2014-15 which are presented in Appendices A-1 and A-2.

The topographic survey was not available at time of report issue, therefore levels given are approximate, based on the Digital Terrain Model (Ref 32), which provides 1 m contours.

4.1.1 Kingsway Junction

The existing roundabout is situated primarily on embankment (Drawing HA514503-URS-08-DR-GE-25.002), with at-grade sections and a cut slope located on the south and east sides at the junction with the A5111. The centre of the roundabout comprises very deep and steep densely vegetated depression, which is crossed by the channels of Bramble Brook and local culverts and forms a sunken area relative to carriageway level.

The ground in the centre of the roundabout is at a level of 68 mAOD, and rises steeply towards the south-east to a level of 86 mAOD, approximately 150 m to the south-east of the Junction. The land rises more gently to the north-west to a level of 75 mAOD over the same distance.

The A38 approaches the roundabout from the south-west at-grade and in cutting, at a level of 75 mAOD. The carriageways then divide, the northbound predominantly on embankment with a section at-grade and the southbound at-grade with a section of embankment approximately 150 m from the roundabout. The wide central reservation is deepened locally by Bramble Brook leaving the verge at-grade and is densely vegetated. The roundabout carriageway level is 75-76 mAOD. The A38 continues in a north-easterly direction, with both carriageways on embankment rising to a level of 81 mAOD approximately 0.5 km north of the roundabout. The A5111 approaches the roundabout reducing in elevation from 84 mAOD in the south-east to 76 mAOD where it joins the roundabout, formed in cutting on the south side and on to embankment on the north-east side.

To the north-east and east lie industrial and retail parks and to the south a college with sports grounds. To the south-west and west is an area of open grassland, and to the north-west, residential development.

Bramble Brook runs through the central reservation from south-west to north-east.

4.1.2 Markeaton Junction

The existing roundabout is at-grade, situated in a built-up urban area and parkland. The layout of the junction is given in Drawing HA514503-URS-08-DR-GE-25.003.

The A38 crosses from south-west to north-east, while the A52 crosses from south-east to north-west. The A52 approaches to the roundabout are at-grade. The A38 northbound carriageway is in cutting approximately 200 m south of the roundabout and the A38 is also formed in cutting approximately 600 m to the north at the junction with Kedleston Road.

The A38 falls from a level of 81 mAOD approximately 0.5 km south-west to a level of 65 mAOD at the roundabout. The carriageway then falls to a level of 57 mAOD in the vicinity of Markeaton Lake, approximately 0.5 km to the north-east. The general topography falls from the west and south-west to east and north-east.

The Junction is surrounded by residential developments to the east and south, whilst to the north lies an area of parkland (Markeaton Park), comprising both open and wooded areas. Immediately west of the roundabout is a petrol station and a restaurant, beyond which lie residential developments.

The recent economy “Pinch Point” scheme comprised verge widening to accommodate additional lanes and reshaping of the roundabout to an ellipse.

4.1.3 Little Eaton Junction

The existing roundabout is at-grade to the north and north-west, whilst being raised above the land to the east, south and west on low embankment. The layout of the Junction is shown on Drawing HA514503-URS-08-DR-GE-25.004.

The A38 approaches the roundabout from the west on embankment crossing over the River Derwent and the London St Pancras to Sheffield railway line located approximately 500 m and 200 m respectively. The embankment level falls from 57 mAOD adjacent to the river bridge to 53 mAOD at the roundabout. The A38 continues north on embankment, rising to a level of 69 mAOD 0.6 km north of the Junction. The A61 approaches the roundabout from the south at-grade and on low embankment.

The land surrounding the Junction to the east, south and west consists of flat farmland. The natural ground level rises from 49 mAOD adjacent to the River Derwent, along the alignment of the A38 to 51 mAOD at the roundabout. To the immediate north and north-west lies a mobile home park and roadside restaurant, beyond which lies hummocky, grassy open land. The ground level rises to the east from the edge of the floodplain.

The recent Economy “Pinch Point” scheme consisted of embankment widening on the existing arrangement with gabion baskets up to 6.5 m high to accommodate additional lanes.

4.2 Published Geology

The 1:50,000 scale geological maps (sheet 125)[Refs 5 & 6] and associated Memoir[Ref 7], and the 1:10,560 geological map sheets (SK33NW[Ref 8] – Kingsway & Markeaton and SK33NE[Ref 9] & SK34SE[Ref 10] – Little Eaton) provide information on the published geology in the area of the Junctions. It should be noted that bedrock geology group and formation names were modified for the 2014 mapping[Ref 5] along with their

relative locations and positions of faults. Superficial deposit names have been revised but remain relatively unchanged in location.

Extracts of the geology maps are given in Drawings HA514503-URS-08-DR-GE-00.008 and HA514503-URS-08-DR-GE-50.009.

Kingsway and Markeaton Junctions:

Kingsway and Markeaton Junctions are underlain by rocks of the Mercia Mudstone Group: the Sidmouth Mudstone Formation, Gunthorpe Member (*formerly Keuper Marl*) and the Tarporley Siltstone Formation (*formerly Waterstones*). The Sidmouth Mudstone Formation includes beds of grey-green dolomitic siltstone, and the Tarporley Siltstone Formation includes beds of fine grained sandstone (*known as "skerries"*).

The geological map(Refs 5 & 6) describes the Gunthorpe Member as red-brown to grey-green gypsiferous mudstone with beds of grey-green dolomitic siltstone. The Taporley Siltstone Formation is described as red-brown and green mudstone and siltstone with beds of fine grained micaceous sandstone.

Superficial deposits in the vicinity comprise Alluvium and River Terrace Deposits (Allenton Sand and Gravel Member). Made Ground and Infilled Ground are also identified.

The Memoir(Ref 7) describes the "Waterstones" as containing a "preponderance" of laminated, silty and sandy beds. The "Keuper Marl" is described as comprising of predominantly blocky red-brown mudstones, with sporadic green beds and patches interlaminated and interbanded pale grey siltstones. Some of the thicker more persistent siltstones combine to form "skerries". Some "skerries" are of sand grade and cemented by dolomite.

The Memoir notes that evaporites (gypsum and anhydrite) in the Keuper Marl are confined to secondary veins, stringers and nodules. Sulphate solution in the surface beds leaves numerous small cavities and collapse-structures. The depth of the solution zone increases in the vicinity of faults.

Little Eaton Junction:

Little Eaton Junction is underlain by rocks of the Millstone Grit Group: Morridge Formation. To the north are the Marsden Formation and Ashover Grit.

The geological map(Refs 5 & 6) describes the Morridge Formation as dark grey mudstone with beds of pale grey protoquarzitic siltstone and sandstone, and marine bands. The Marsden Formation is described as grey mudstone and siltstone, with feldspathic sandstone, marine bands and coal seams. The Ashover Grit is described as grey medium to coarse grained sandstone, locally pebbly. Some previous mapping(Ref 11) identifies the Morridge Formation as the Bowland Shale Formation (dark grey mudstone with thin beds of siltstone, sandstone and dolomitic limestone).

Superficial deposits in the vicinity comprise Alluvium, Head and Glaciofluvial Deposits. Made Ground is also identified.

4.2.1 Kingsway Junction

The mapping(Refs 5 & 6) indicates that the superficial deposits comprise a zone of Alluvium crossing through the site in an approximately south-west to east direction

along the course of Bramble Brook. This continues in an easterly direction towards the River Derwent. Made Ground and Infilled Ground are shown approximately 100 m to the east of the Junction.

The bedrock geology is shown to comprise the Tarporley Siltstone Formation, with a south-east to north-west trending fault crossing the alignment approximately 100 m north of the Junction. The dip of the strata is indicated to be 5° to the south-east. To the north of the fault the Sidmouth Mudstone Formation, Gunthorpe Member is shown. Siltstone and sandstone beds (skerries) are indicated within both formations.

The fault is possibly the Mackworth Fault(Ref 7), downthrown towards the north-east with a maximum throw of 15 m, comprising two sub-parallel faults approximatley 9 m apart.

Earlier mapping from 1972(Ref 6) indicates Mercia Mudstone strata including Dolomitic Siltstone (Skerry bands) shown under most of the Junction with an area of the Tarporley Siltstone Formation in the north-eastern area.

4.2.2 Markeaton Junction

The mapping(Refs 5 & 6) indicates River Terrace Deposits (Allenton Sand and Gravel Member), previously indicated to be 1st Terrace Deposits(Ref 8), approximately 150 m north-east of the Junction to the area of Markeaton Lake. Alluvium is shown north-east of this to the junction with Keddleston Road.

The bedrock geology is shown to comprise of the Sidmouth Mudstone Formation; Gunthorpe Member to the south of the Junction and Tarporley Siltstone Formation to the north.

An east to west trending fault is indicated to divide these formations. The dip within a siltstone horizon of the Gunthorpe Member is shown to be towards the east. The fault is possibly the Markeaton Fault(Ref 7), downthrown to the south, with a variable throw of up to 61 m. This was previously shown(Ref 6) to be south-east to north-west trending, crossing the alignment approximately 150 m to the north of the current shown position.

Earlier mapping from 1972(Ref 6) indicates Mercia Mudstone strata including Dolomitic Siltstone (skerry bands) shown under the south-western area of the Junction with the Tarporley Siltstone Formation to the centre and north-eastern area; the fault forms the transition back to Mercia Mudstone strata.

4.2.3 Little Eaton Junction

The mapping indicates that the superficial deposits beneath and immediately surrounding the Junction consist of Alluvium. Glacio-fluvial (undifferentiated sand and gravel) and Head deposits are shown approximately 600 m to the north of the Junction and Head deposits are shown approximately 300 m to the south of the Junction. Made Ground is shown approximately 100 m north and west, and 400 m south of the Junction.

The bedrock geology beneath the Junction is shown to comprise Millstone Grit Group: Morridge Formation. Published dip readings indicate bedding to be inclined at approximately 5-8° towards the north-east at a distance of approximately 1.5 km to the west of the Junction.

A south-east to north-west trending fault is described with downthrow towards the south-west approximately 1 km to the west of the Junction. The fault is considered to be the Quarndon Fault[Ref 7] with a maximum throw of 15 m.

4.3 Existing Ground Investigation Information

A number ground investigations have previously been carried out in the vicinity of the Junctions[Refs 12-26]. The exploratory hole logs are included in Appendices C-1 to 3 and locations are shown on Drawings HA514503-URS-08-DR-GE-25.002 to 004.

The strata descriptions, groundwater conditions, geotechnical in-situ and laboratory testing are summarised in Section 5.

4.3.1 Kingsway Junction

The following exploratory holes are located within the vicinity of the Junction:

- 1967 Ground Investigation BH35 – BHB42A, BHB58 – BHB58A (3.05 to 13.72 m deep).
- 1970 Ground Investigation BH109 - BH136, BH140 - BH157 (0.91 to 15.24 m deep).
- 2005 Ground Investigation WS1 – WS6 (1.0 to 5.0 m deep).

The exploratory hole logs are included in Appendix C-1 and locations are shown on Drawing HA514503-URS-08-DR-GE-25.002.

4.3.2 Markeaton Junction

The following exploratory holes are located within the vicinity of the Junction:

- 1971 Ground Investigation A1, A3, A23, T2, T26, R11, R15, B24 – B25, B100 – B123 (0.61 to 15.49 m deep).
- 1977 Ground Investigation SB1 – SB5 (7.8 to 9.95 m deep).

The exploratory hole logs are included in Appendix C-2 and locations are shown on Drawing HA514503-URS-08-DR-GE-25.003.

4.3.3 Little Eaton Junction

The following exploratory holes are located within the vicinity of the Junction:

- 1963 Ground Investigation BH15 – BH16 (1.83 m deep).
- 1964 Borehole A3 (Approx. 7.5 m deep, final depth not stated).
- 1972 Ground Investigation 1R – 8R, 57B, 66B (2 to 15 m deep).
- 2012 Ground Investigation BH1-3 & 9, WS1-14 (1.2 to 10.5 m deep).
- 2012 Ground Investigation CP 1-4 (10 to 13 m deep).

The exploratory hole logs are included in Appendix C-3 and locations are shown on Drawing HA514503-URS-08-DR-GE-25.004.

4.4 Hydrological, Hydrogeological and Geo-Environmental Information

4.4.1 Kingsway Junction

Hydrology:

There are no WFD River Basin Management Plans for Rivers and Lakes located near to Kingsway Junction.

Bramble Brook is present within and immediately to the south of the current Kingsway junction and within the curtilage of the proposed Junction. Bramble Brook is partly culverted in the area of the existing junction. Bramble Brook flows in a northerly direction towards the junction, then turning towards an easterly direction. There are no surface water extractions, nor any monitoring by The Environment Agency of water quality within Bramble Brook.

The Environment Agency website (reviewed 23/01/2015) indicates on their flood risk mapping that there is a low to high risk of flooding associated with the location of Bramble Brook, dependent on the topography of the land adjacent to the brook, which is at 90 to 91 mAOD.

Hydrogeology:

The superficial deposit underlying the Kingsway Junction is classified by the Environment Agency as a Secondary 'A' aquifer, which indicates that it is capable of supporting water supplies at local scales and providing base flow to rivers. The bedrock deposits underlying the site are classified by the Environment Agency as Secondary 'B' aquifer (Mercia Mudstone Group – Mudstone), which is predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers, and as a Secondary Undifferentiated aquifer (Mercia Mudstone Group – Siltstone, Dolomitic). The Environment Agency website (reviewed 23/01/2015) WFD River Basin Management Plans for Groundwater indicates that Kingsway Junction overlies the Derwent – Secondary Combined water body.

The past borehole records did not clearly indicate a standing water level, but the logs do comment on the soft and moist nature of the top approximate 2 m of soil, which indicates the potential for a high water table at this location.

Geo-Environmental:

The Envirocheck Report[(Ref 27)] shows a historic landfill site to the east of the junction called 'Rowditch Tip'. The Environment Agency identifies the site operator as Par Development Limited. 'Rowditch Tip' is stated to have been operated between 31 December 1900 and 02 September 1991. However, a 'Refuse Tip' is first shown at this location on Ordnance Survey maps dated 1967 and 1972, which implies that the first input date may be incorrect. The landfill has a 'last input date' of 02 September 1991. The licence holder is recorded as J Sainsbury Plc and Leigh Interests Plc, under reference number LD02. The Environment Agency identifies previous licence holders for the 'registered landfill site at Rowditch' as Derby Waste Disposal Ltd (record superseded in 1977) and Leigh Environmental Ltd (licenced lapsed/cancelled/defunct/not applicable/surrendered in 1986) both under licence reference number LD02.

The landfill accepted the following wastes: inert; industrial; commercial; household; special waste and liquid sludge. During the ownership of Derby Waste Disposal Co Ltd wastes deposited at the site included; alkali metal oxides/hydroxides, asbestos, construction and demolition wastes, dyestuffs waste, fats, waxes and greases, food processing wastes/starch, glue wastes, halogenated cleaning compounds, house and commercial untreated wastes, industrial non hazard waste, industrial effluent treatment sludge, interceptor pit wastes, ion exchange resin wastes, iron compounds, latex, latex rubber solutions and suspensions, lead compounds, metal scrap, mineral oils, mineral processing wastes, other alkalis, other inorganic materials, other non-toxic metal compounds, paint wastes, polymeric material and scrap products, printing industry wastes/ink, scrap rubber (including tyres) silt and dredgings, slag boiler/flue cleanings, soaps and detergents, synthetic adhesive wastes, tank cleaning sludge, tar, pitch, bitumen, asphalts, used filter materials, vanadium compounds and waste treated timber. Construction and demolition wastes including solid asbestos pipes and sheets were deposited under the ownership of Leigh Environmental Limited. It is understood that the site of the former 'Rowditch Tip' has since been redeveloped as a retail park.

The route of a dismantled railway line is also noted as a historic landfill. The historic landfill is called 'Disused Railway Cutting and Tunnel off Station Road' and was operated by Northern Land Agriculture Improvements Limited. This site received inert waste between 31 August 1981 and 31 March 1993.Two pollution incidents to controlled waters are recorded for the junction. An incident in February 1998, involving a Road Traffic Accident, caused 682 litres of milk to flow into the drains and impacted Markeaton Brook. The incident was classed by the Environment Agency as Category 1 – Major Incident. The second incident took place in February 1999 where an accidental spillage of oils (diesel) into Markeaton Brook occurred. The incident was classed by the Environment Agency as a Category 3 – Minor Incident.

4.4.2 Markeaton Junction

Hydrology:

The nearest Water Framework Directive (WFD) water body to the Markeaton Junction is the Markeaton Brook from Mackworth Brook to the River Derwent (GB104028052830). Information from the Environment Agency website indicates that the hydromorphological status of the River Derwent is heavily modified and at the time of report issue has a current ecological quality of moderate potential.

Markeaton Lake is situated around 500 m to the north north-east of the roundabout and is not classified as a separate water body under the WFD. It is fed by Markeaton Brook. Another water body, which may be a part of Markeaton Lake, is also present on the eastern side of the A38.

The published Environment Agency maps(Ref 30) indicate that the roundabout is not at risk of flooding from the Markeaton Brook. The roundabout is also not at significant risk from flooding associated with reservoirs; or from surface water run-off.

There are no surface water abstraction licences within the near vicinity of the Markeaton Junction.

Hydrogeology:

Superficial Hydrogeology:

The groundwater vulnerability map indicates that the Markeaton Junction is located at the junction between an area of a high-vulnerability (to the east) and an intermediate-vulnerability (to the north).

The Environment Agency classifies the superficial geology as a Secondary 'A' aquifer. The Alluvium is considered to be in hydraulic continuity with the Markeaton Brook and Markeaton Lake. The Allenton Sand and Gravel Member is considered to be in hydraulic continuity with the Alluvium and collects rainfall recharge to support base flow within the Brook.

Bedrock Hydrogeology:

Past borehole records, prepared by Geo-Research Limited in 1971, (Section 4.3.2) indicated the groundwater level to be present between approximately 2.5 m and 6.0 m below existing ground level in the vicinity of the junction at the time of the investigations.

The Mercia Mudstone Group in the vicinity of the Markeaton Junction is classified by the Environment Agency as a Secondary 'B' aquifer and has the potential to be in partial hydraulic continuity with the overlying superficial geology Secondary 'A' aquifer. It also has the potential to be in partial hydraulic continuity with the underlying Widermerpool Formation of the Craven Group, which is classified as a Secondary 'A' aquifer.

Information from the Environment Agency consider the Mercia Mudstone Group to be effectively a non-aquifer in many areas, it is possible to obtain limited quantities of groundwater suitable for domestic or small scale agricultural use; the basal section of the group including the Tarporley Siltstone Formation can form a localised minor aquifer in its own right, resulting in small springs and leading to the installation of shallow wells for abstraction (Jones et al. 2000).

Groundwater yields from the Mercia Mudstone Group commonly range from less than 25 m^3/day to 130 m^3/day, although yields from the Tarporley Siltstone Formation may be greater. Porosity values obtained from outcrop samples range between 12 to 31% (average of 25%) and permeability ranges between 0.0096 and 2.35 m/day (average of 0.56 m/day). The mudstones within the Group are regarded by Jones et al, 2000, as effectively impermeable, with a hydraulic conductivity of the order of 0.01 m/day.

According to the Environment Agency website (accessed September 2014), there are no groundwater abstraction licences or source protection zones in the vicinity of the Markeaton Junction.

The current Water Framework Directive status of the Derwent Secondary Combined (Millstone Grit) groundwater body (Water body Identification: GB40402G990400) is good with respect to quantity, and poor (and deteriorating) with respect to quality.

The Environment Agency Groundwater Vulnerability Zones (GVZ) dataset indicates that the Markeaton Roundabout is located at the junction between an area of a high-vulnerability (to the east), an intermediate vulnerability (to the north), and a non-aquifer (to the south and west). This is an historic dataset and may not represent the latest mapping of soils and geology; the Environment Agency is currently updating its GVZ dataset.

Geo-Environmental:

The following information has been obtained from the Envirocheck Report(Ref 28) and accessing the Environment Agency website:

Discharge consent (Ref: T/47/03754/O/2) is located to the north of the junction, at the southernmost point of Markeaton Lake. The discharge consent was issued on 21 May 1974, for discharge of 'Sewerage and Surface Water' and is operated by Severn Trent Water Ltd. It is assumed that this discharge consent is still current as no 'Revocation Date' is provided in the Envirocheck Report (Ref 28).

Mackworth Service Station (Esso) is located adjacent to the western area of the junction. This service station is also noted as having 'Permitted' status under Local Authority Pollution and Prevention Controls.

A car painters and sprayers was located (identified as inactive) on Queensway adjacent to the northern part of the works to the junction.

Two pollution incidents to controlled waters classed as Category 3 –Minor Incident by the Environment Agency are recorded at this location both due to road traffic collisions. The incidents occurred in 1995 and 1999. Eight (8) additional pollution incidents to controlled waters are recorded within 500m of the site. All eight incidents are classed by the Environment Agency as Category 3 – Minor Incident.

The site of a historic landfill is located within the northern end of the scheme extent (circa 100 m north of Markeaton Junction). The historic landfill was licenced to Tarmac National Construction, was operated between 1982 and 1984 and was licenced to accept inert waste.

A second historic landfill is located to the east (circa 175 m) of Markeaton Junction. The historic landfill was licenced to the Royal School of Deaf, was operated between 1978 and 1982 and was licenced to accept inert, industrial and commercial waste.

4.4.3 Little Eaton Junction

Hydrology:

There are WFD River Basin Management Plans for Rivers (River Derwent from Bottle Brook to River Trent) but not for Lakes located near to Little Eaton Junction as noted on the Environment Agency website (reviewed 23/01/2015).

Dam Brook / Boosemoor Brook flows towards the junction and along the eastern boundary to the current junction, heading in a southerly direction. The river Derwent is located to the east of the junction. However, the western section of the A38 crosses the River Derwent. At this location the river is aligned in a north – south orientation. The Envirocheck Report(Ref 29) indicates that the Dam Brook is culverted.

The water within the River Derwent flows in a southerly direction. At the time of this report issue the ecological quality and the 2015 predicted ecological quality of this section of the River Derwent are both classed by the Environment Agency as 'moderate'.

At the time of this report issue the chemical quality and the 2015 predicted chemical quality of this section of the River Derwent is classed by the Environment Agency as 'fail'. The 'fail' classification is due to presence of 'Priority Hazardous Substances' benzo(ghi)perylene and indeno(123-cd)pyrene, and tributyltin compounds. An

Alternative Chemical Objective (if not good by 2015) – High Chemical Status by 2027 is provided by the Environment Agency.

Land to the south and east of the junction are indicated on mapping(Ref 28) (Sept 2014)by the Environment Agency to be at low to high risk of flooding.

The Envirocheck Report also identifies two water abstraction features in the vicinity of the Junction:

- A water abstraction, on the eastern bank of the River Derwent, just below where it passes beneath the A38 ring road, licenced to Talbot Turf Supplies, and is stated to extract 40,000 m^3 per year;
- A water abstraction, to the east of the northern section of the A38, licenced to Derby Garden Centre.

Hydrogeology:

The Environment Agency classifies the bedrock and the superficial deposits at the site as Secondary 'A' aquifers. The Environment Agency Groundwater Vulnerability Map (Sheet 23)(Ref 30) indicates that the Little Eaton Junction is situated on land that classifies the soil as high vulnerability (Class H2 soil), suggesting that the soil has a low attenuation potential for pollutants, and that it drains rapidly. To the west of the Junction, the classification alters to that of medium vulnerability (Class I1 soil), indicating that it could possibly transmit a wide range of pollutants.

Previous borehole records indicate standing groundwater level was present between 0.5 m and 2.5 m below existing ground level at the time of investigation, although as Section 4.3.3 states, these boreholes are located some distance from the junction itself.

The Environment Agency website (reviewed 23/01/2015) WFD River Basin Management Plans for Groundwater indicates that Kingsway Junction overlies the Derwent – Secondary Combined water body.

At the time of this report issue the chemical quality of groundwater at this location is classified by the Environment Agency as 'poor (deteriorating)' and the 2015 predicted chemical quality of groundwater at this location is classified as 'poor'.

The majority of the area of Little Eaton Junction overlies Zone III of a Source Protection Zone for Little Eaton Tunnels portable water supply source, whilst the western end of the Junction overlies Zone I and II of the same Source Protection Zone. These Zones are detailed, as follows:

- Zone I (Inner Zone) – 50 day travel time from any point below the water table to the source;
- Zone II (Outer Zone) – 400 day travel time from a point below the water table;
- Zone III (Total Catchment) – The area around a source within which all groundwater recharge is presumed to be discharged at the source.

Geo-Environmental:

The Envirocheck Report(Ref 29) identifies the Little Eaton Junction to be located within an area of unadopted green belt, and in a nitrate-vulnerable zone (NVZ). An NVZ indicates the possibility that the groundwater may contain elevated concentrations of nitrates, typically due to farming activities in the wider area.

Five pollution incidents to controlled waters are recorded within close vicinity of the proposed works:

- Accidental spillage / leakage of oils (diesel) from overturned vehicle, receiving water Markeaton Brook, occurred on 02 July 1999, classed by Environment Agency as Category 3 – Minor Incident;
- Spillage of oils (diesel) to drains following collision, receiving water River Derwent, occurred on 01 August 1998, classed by Environment Agency as Category 3 – Minor Incident;
- Food Industry leak of milk from storage tank, receiving water River Amber, occurred on 26 December 1998, classed by Environment Agency as Category 3 – Minor Incident;
- Dead cow found in River Derwent, occurred on 22 March 1996, classed by Environment Agency as Category 2 – Significant Incident;
- Blockage in ditch upside of railway line; receiving water River Derwent, occurred on 26 March 1998, classed by Environment Agency as Category 3 – Minor Incident.

A substantiated pollution incident register entry is noted for soils and clay, and vehicles and vehicle parts pollutants which occurred on 08 May 2007. The incident was classed by the Environment Agency as Category 2 – Significant Incident for Land Impact but as Category 4 – No impact for Water Impact and Air Impact. The incident is located circa 150 m to the north-west of the junction.

Located circa 250 m to the north north-west of the Junction is a Licensed Waste Management Facility (Landfill). This has been operational since 1977, and is licensed to take construction and demolition wastes, but not poisonous, noxious or polluting wastes (Appendix C).

A ground investigation was undertaken at the Landfill by CMT (Testing) Limited in July 2012 on behalf of AJS Structural Design Ltd. The ground investigation comprised four cable percussion boreholes (CP1-4) to completion depths of 10 and 13 mBGL. The ground investigation recorded Made Ground from ground level (CP3) to between 6.30 mBGL (CP3) and 8.6 mBGL (CP2). The material was described as a surface stratum of brown slightly sandy slightly gravelly silt with organic matter in CP1, CP2 and CP4, underlain by soft brown and black clay wood, metal, bricks, concrete, possible railway sleepers and rubber, underlain in CP1 by soft black slightly gravelly silty clay with crushed stone and brick.

The Made Ground was underlain by dense and medium dense reddish brown Sand and Gravel. The ground materials in CP4 were described as being ‘waterlogged’. No soil or groundwater samples are recorded.

A ‘Water Reclamation Works’ is located 300 m to the west of the northern end of the junction. Severn Trent Water has a Planning Hazardous Substance Consent for the use of chlorine at Little Eaton Water Treatment Works, located circa 300 m to the north of the northern extent of the proposed works.

The contemporary trade directory entries indicate that a Road Haulage Service and a Commercial Vehicle Dealers are ‘Active’ circa 150 m to the north-west of the junction.

4.5 Historical Development & Man-Made Features

A history of each Junction has been compiled, based on information gained from available Envirocheck historical maps[Refs 27, 28 & 29] and aerial photos[Ref 31]. The maps and photos consulted are listed and presented in Appendices D and E.

4.5.1 Kingsway Junction

Available 1:10,000 and 1:10,560 (six-inch to one-mile) historical maps indicate that in 1886 the land on which the junction currently stands consisted of fields, which were dissected centrally east-west by the Great Northern Railway Line (Derbyshire & North Staffordshire Extension). Bramble Brook is shown to run through the site from south-west to north-east, until joining and following the edge of the railway line. Thornhill Farm and Humbleton Farm were located approximately 250 m to the east and west of the site respectively, and several brickyards are shown on the 1886 map located approximately 400 m to the east. On the 1901 map these brickyards are shown to have areas of excavation (Ordnance Survey mapping legend indicates a Quarry or Clay/Chalk pit), extending south and west towards the site within 250 m of the boundary.

By 1938, the Kingsway has been constructed, running approximately north – south through the site and a hospital is shown to lie to the south of the Junction. The 1948 to 1953 photos indicate an area of ground to the north-east of the current location of Kingsway Junction that appears to have been worked. On 1971 - 1975 photos, this area has become more extensive, reaching further around to the east and it is also shown on the 1979 map.

Between 1955 and 1972, extensive residential development of the land to the north-west of the A38 between Markeaton and Kingsway Junctions took place; this included the development of allotments within the footprint of the current junction, a bowling green to the far east of the site and residential housing directly adjacent to the western scheme boundary. By 1972, Thornhill and Humbleton Farm have disappeared, and the Quarry / Clay pits have been in filled. The Kingsway Junction was constructed between 1972 and 1975 (as indicated on the aerial photographs), by which time the railway had been dismantled.

A superstore is shown to lie to the east of Kingsway Junction by 1989 (as indicated on the aerial photographs) upon the in-filled Quarry / Clay Pits. The 1992 map labels the in-filled Quarry / Clay Pits to be a disused tip. The 2000 map shows the disused tip has become a retail park to the east of the site.

4.5.2 Markeaton Junction

Available 1:10,000 and 1:10,560 (six-inch to one-mile) historical maps indicate that in 1886 the land on which the junction currently lies formed part of the Hill Farm estate. The land use consisted primarily of fields, with some wooded land shown to the south and north-west of where the junction is currently located. The 1885-1887 map show the presence of buildings; Hill Farm and the Lodge to Markeaton Hall are situated on opposite sides of the Ashbourne Road, which runs east to west along the current alignment of the A52. The map shows the site area is dissected a further three times:

- In the north by Markeaton Pond flowing south-east towards Mill Pond
- A weir diverting water to a stream which crosses approximately 100 m north of the pond
- Windmill Hill crossing east to west in the south of the site.

The residential and industrial Friargate Ward of the City of Derby is shown to the east of the site. The Ashbourne Road Mills (a silk works) is shown 250 m east of the site with further silk and colour works shown in proximity to the eastern end of Mill pond.

A gravel pit is shown to the north of the silk works and approximately 150 m east of the site.

The 1901 map names the land to the north-west as Markeaton Park, showing a mixture of wooded and open land. The gravel pit has moved to the northern corner of the enclosure now labelled as allotment gardens (1901; 1:2,500), indicating a period of excavation and in-filling. The 1919 map shows general expansion, specifically the addition of an Alms House to the south-east of the current junction. The gravel pit is no longer shown.

Land use in the area appears to remain similar until the 1938 map, by which time a road had been constructed along the alignment of the current A38, to the east of the road and within the current site. To the south of Markeaton Junction the road is called the Kingsway and to the north is called the Queensway. The 1938 map shows houses along the eastern side of the Queensway. By 1955, Hill Farm is no longer shown. There is a school shown to the north-east of the site. Markeaton Park is shown to contain numerous a small buildings and a Drill Hall is present to the south-west of the junction (labelled as a Territorial Army centre from 1972 onwards).

The Markeaton Junction is first shown on the 1967 photo, with buildings in the current location of the service station (shown on a 1966; 1:1,250 map) and fast food restaurant shown from 1971 onwards. The 1972 map shows further development around the junction with Markeaton Park remaining untouched. The 1979 map shows little change except the addition of a school for the deaf which is directly adjacent to the site boundary. The 1991 and1992 maps show the junction with Kedleston Road to the north of the site is now a grade separated junction and a footbridge crosses the Queensway within the site, although the 1987; 1:1,250 map indicates it is earlier. The 2000 map shows a miniature railway in Markeaton Park which runs along the western boundary of the Queensway and may enter the site area.

4.5.3 Little Eaton Junction

Available 1:10,000 and 1:10,560 (six-inch to one-mile) historical maps indicate in 1886, the land in the vicinity of where the junction is currently located principally consisted of fields and Ford Farm. Ford Farm, on Ford Lane, is shown to lie just to the north-west of the junction's current location with the "Ford" being approximately 400 m west of the farm building, and crosses the River Derwent at the western site boundary.

Bisecting the site north to south is Alfreton Road which is flanked by the Derby Canal, the canal switches sides and crosses the road close to Ford Farm, north of the junction. The North Midland Branch of the Midland Railway Line also bisects the site in a north to south direction, approximately 200 m west of the current junction. At the southern site limit along Alfreton Road a footbridge is indicated to cross the road and the canal at the weir.

There are two watercourses in the eastern portion of the site, these are present on the 1886 map but not identified until the 1914 (1:2,500) map as Boosemoor Brook and Dam Brook; subsequent maps identify the watercourses flowing in to the site at the junction and turning south along Alfreton Road. In the peripheral area, the 1886 map shows that 600 m north of the current junction, there is a water works / reservoir with several airshafts located in the fields to the west; to the east is a large gravel pit.

By 1914, several airshafts are shown following the River Derwent from north to south, located alternately near either side of the river. One of these is located in close proximity to the current location of the A38 River crossing, although none are located near the junction itself. It is likely that these are associated with the water works, located on the A38 to the north of the junction. The ford over the River Derwent is shown as bridged.

The 1919 map shows Croft Bridge Wharf, situated to the south of the junction, as disused which leads on to the 1938, 1:2,500 maps indicating the Derby Canal to be disused and shows areas as in filled. The 1961 (1:2,500) map indicates additional properties, close to the current A38 alignment; these appear to be separate to the farm. The 1969; 1:10,000 scale map confirms the towpath and canal is disused and it is then absent from the site and surrounding area on the 1971 photos.

The A38 ring road around to the west of Derby is absent from 1967 photos, but is first shown on a 1969 map (SK34SE). However, the Little Eaton junction isn't shown until the 1974/5 maps, and the northern portion of the A38 is not shown. The gravel pit previously noted to the north-east of the junction is no longer shown and may have been in filled. The 1974 map also shows sewage works and "ponds" approximately 600 m north of the junction, later this is referred to as Water Reclamation Works, however this is shown earlier on the 1968 1:2,500 map as ponds. The 1974 map shows hand annotation of "Refuse Tip" north of the Junction.

The 1978 photos indicate that a separate, larger area of land to the north-west of the junction has been disturbed. The size and location of this area is consistent with the recorded location and date of commencement of the licensed waste management facility that has been highlighted by the Envirocheck Report (see Section 4.4). However this is not shown on the later 1981 map but is reflected on the 1991 Russian military mapping.

The 1981 map shows the northern portion of the A38 as constructed on a series of embankments and through cuttings, the alignment deviating away from the old Alfreton Rd. The 1978 and 1981 photos both show some changes in layout to the junction, consisting of changes to the alignment of the approaches to the junction. The 1988 and 1989 photos show an area of high-reflectivity in the field to the south-west of the junction, which is possibly due to surface water present in the field. Observations during the March 2003 site walkover also indicate that the field is prone to flooding. On earlier photos, this same area of land is shown to have a linear surface depression, consistent with a wide, shallow ditch.

The 1991 Russian military mapping shows little difference except the area to the north of Ford Farm between the site boundary and 250 m is an annotation consistent with an excavation – quarry or pit. The 1967 photo confirms working or uneven ground in the area north-west of the junction. This may be railway-related in some way, since the land is adjacent to the railway line, and is in the same location as where some stockpiling of materials was noted during the 2003 site walkovers. Alternatively, it may be a stockpiling area for Ford Farm.

This is corroborated by the 2000 map showing the area, although more extensive, to be a refuse tip or slag heap; the map also shows Ford Farm is no longer present although buildings remain. There is now a Garden Centre adjacent to the sewage works and directly next to the embankment of the A38 north of the current junction. The 2000 map gives the impression of shallow ground water throughout the area as previously unmapped water course are shown adjacent to the site boundary along Ford Lane and the railway line. The 2014 map shows little change although, of note

is the former Farm which is now a Mobile Home park, the garden centre has developed extensive buildings and the former refuse tip or slag heap, is annotated to be rough grass land.

4.6 Mining, Gypsum and Mineral Extraction

4.6.1 Coal Mining

Coal mining is not recorded to have been undertaken beneath any of the Junctions[Refs 27, 28 & 29].

4.6.2 Gypsum

There are no recorded occurrences of man-made mining cavities or natural cavities within the areas of the Junctions. They are also recorded as having very low potential for collapsible ground stability hazards[Refs 27, 28 & 29].

4.6.3 Mineral Extraction

Kingsway Junction:

Rowditch Brick Works, located approximately 100m to the east of the proposed works, which has ceased to operate. The site was an opencast quarry extracting Clay and Shale.

Markeaton Junction:

Rowditch Brick Works, located approximately 25m to the east of the proposed works, which has ceased to operate. The site was an opencast quarry extracting Clay and Shale.

Little Eaton Junction:

Breadsall Gravel Pit, located approximately 270m to the north-east of the proposed works, which has ceased to operate. The site was an opencast quarry extracting Sand and Gravel.

5 GROUND CONDITIONS

5.1 Kingsway Junction

The ground conditions in the vicinity of the Junction are anticipated to comprise:

- Topsoil, overlying;
- Artificial ground including Made Ground;
- Superficial deposits including Alluvium;
- Underlain by rocks of the Mercia Mudstone Group.

Laboratory testing is summarised in Appendix F-1. The plan and long-section of the Junction is shown on Drawings HA514503-URS-08-DR-GE-25.002 and HA514503-URS-08-DR-GE-00.005.

5.1.1 Topsoil

Topsoil was encountered in the majority of exploratory holes to a thickness of up to 0.61 m, although typically in the range 0.2-0.4 m. The Topsoil is typically described as grey to brown, sometimes with brick and ash.

5.1.2 Artificial Ground

Made Ground:

Made Ground was recorded in the 2005 window sample holes and comprises embankment fill and previous road construction material.

The embankment fill material was encountered beneath the topsoil to depths of up to 2.3 m, and is variously described as soft to stiff red, sometimes slightly sandy, clay with black ash and brick fragments, and sand.

The possible old road surface was encountered in some holes (WS3, 4, 5 & 6) in the range 0.2 -0.5 m thick, at depths of between 0.5 and 2.3 mBGL. This is typically described as “dense black ash and stone, sometimes containing granite fragments with tar, tarmac and a hydrocarbon odour.”

Within BH140 (0.15 – 1.07m) described as “ash, soil and clay fill”.

5.1.3 Superficial Deposits

Alluvium:

A strip of Alluvium is indicated running south-west to north-east through the Junction. Exploratory hole logs (132, 133, 134 & 136) indicate the presence of Alluvium, described as soft mottled marly clay with peat to depths of up to 3.66 m.. This material is recorded beneath the topsoil.

Testing indicates material to be generally clay of high plasticity occasionally intermediate or low plasticity.

In addition material encountered in boreholes B39, B41 and B42A may be Alluvium, but may alternatively be weathered Mercia Mudstone Group material.

5.1.4 Bedrock Geology

Mercia Mudstone Group:

Logs from 2005 describe the near surface material beneath Made Ground as stiff and very stiff, friable Clay with mudstone fragments (lithorelics), which increase to gravel size below 2 m depth. Mudstone bands are also noted. The colour is described as red and mottled grey. A thickness of up to 1.9 m is indicated.

Silty Clay was described at 1.52-3.66 m depth (2.14 m thick) in BH38 (1967) beneath "Clay (Marl)". Testing of this material indicates that it is silt of intermediate plasticity with a moisture content of 56%.

The material beneath topsoil is described in BH42A (1968) as Clay (2.13 m thick), as Clay & Silt (2.44 m thick) in B41 (1967) and Clay 0.69 m thick in B39 (1967). Testing indicates material to be clay of high plasticity (B39 & B41) or low plasticity (B42A). All or some of this material may alternatively be Alluvium. Moisture contents tend to be higher for this near surface material.

Logs from 2005 describe weak to moderately weak interlaminated bands of mudstone, siltstone and sandstone, becoming stronger with depth. Older logs predominantly describe the material as "Clay (Marl)" from near surface. The material variously includes the description of sandstone, bands of sandstone, silt and marl, soft sandstone and marl, gravel, small stones and sandy silt. In addition, soft Mudstone was noted at 2.9-3.66 m depth (BH37) and Sand 1.98-3.05 m depth (BH39). The material is described as laminated (3.66-4.42 m depth in BH38) and as hard and laminated (9.14-13.72 m in B42A).

The material is described as firm or stiff clay sometimes marly near surface, then hard marl, clayey in parts. Beneath this, the material is described as weathered, sometimes hard, occasionally friable, red brown or red green, clayey marl, becoming less weathered with depth. Sandstone bands and sandy horizons are noted.

Sandstone and sand horizons are likely to represent skerry bands. In BH133 between 1.52 and 3.35 mBGL, the material is described as a compact medium gravel with red clay matrix, which could be a weathered skerry band.

Material testing indicates that this material is clay or silt of low to sometimes intermediate plasticity. Moisture contents tend to be higher near surface but are lower than for the more weathered material.

Some material was described as very soft up to 2.74 m depth. In-situ SPT-N values vary between 13 and refusal, indicative of the varying strength of the different horizons. It is recorded in the log for B42 that the "borehole lost water" at 7.31 m depth. The cause of water loss is not stated however a number of possible reasons could be, but not limited to; the presence of voided ground (e.g. dissolution of gypsum), fault disturbed material or the presence of a more permeable sandstone horizon.

Summary:

The sequence is considered to indicate the weathering profile within the predominantly argillaceous material with subordinate units described as siltstone to sandstone. Therefore, the material is also variously described as clay, silt and gravel. It is inferred from the geology map sheet[Ref 5] that this unit is possibly the

Tarporley Siltstone Formation. Weathered skerry bands may have been identified in the exploratory holes.

A south-east to north-west trending fault crosses the alignment approximately 100 m north of the Junction as shown on the geology map sheet(Ref 5).

5.1.5 Groundwater

Standing water levels in the boreholes are recorded as being 0.5 - 1.5 mBGL in the winter of 1967 – 1968. Since the majority of the junction is located on embankment, the current carriageway level is situated several metres above these water levels. However, the land surrounding the junction, and the depression in the centre of the existing roundabout, may be subject to near-surface groundwater levels. No surface water was noted during earthwork inspections, but the ground at the toe of some embankment sections were recorded as damp.

5.1.6 Ground Chemistry

Ground chemistry information was recorded for the 2005 investigation within Made Ground materials:

- pH – 7.0 to 9.4
- SO_4 Total (mg/kg) – 181 to 1380

5.2 Markeaton Junction

The ground conditions in the vicinity of the Junction are anticipated to comprise:

- Topsoil, overlying;
- Artificial ground including Made Ground;
- Superficial deposits including Alluvium and River Terrace deposits;
- Underlain by rocks of the Mercia Mudstone Group.

Laboratory testing is summarised in Appendix F-2. The plan and long-section of the Junction is shown on Drawings HA514503-URS-08-DR-GE-25.003 and HA514503-URS-08-DR-GE-00.006.

5.2.1 Topsoil

Topsoil was encountered in many exploratory holes to a thickness of up to 0.7 m, although it is typically around 0.3 m thick. It is typically described as topsoil with roots or turf, sometimes brown. Sometimes it is not distinguished from underlying fill or made ground materials.

5.2.2 Artificial Ground

Made Ground:

The Made Ground comprises embankment fill and previous road construction material up to 3.2 m depth. The material is described as brown, red, green, yellow and grey, compact clay and soil fill or boulder clay fill, sand, clay, gravel and sandstone fragments, with occasional concrete and reinforced concrete (possible original road construction), kerbs, flags, tarmac, and cinder, coal, clinker, brick and ash content. Testing indicates that this material may typically be of low to intermediate plasticity, occasionally clay or silt of high plasticity.

5.2.3 Superficial Deposits

Alluvium:

Alluvium is indicated approximately 400 m north-east of the Junction. Exploratory holes indicate this material down to a depth of 5.0 m, with a thickness of up to 4.1 m. The material is typically very soft to firm, although variously described up to very stiff.

The material is predominantly silty clay or sandy silty clay, also clay, clayey silt, and marly clay with sand and gravel. Occasionally the inclusion of pebbles and organic material are described. The colour is variously brown-grey, red-brown and grey, grey-black, and light brown-orange mottled yellow.

Testing indicates that this material is clay of low or intermediate plasticity to clay or silt of high plasticity, occasionally clay of low plasticity.

River Terrace:

River Terrace deposits are indicated approximately 150 m to the north-east of the Junction. Exploratory holes indicate this material up to a depth of 6.2 m, with a thickness of up to 4.1 m. The material is loose to dense, sometimes described as

poorly to well graded, fine to coarse, sand and/or gravel, sometimes silty or clayey. Occasionally it is described to contain cobbles. The colour is brown, yellow-brown and red-brown. Organic material is sometimes present and a band of clayey sand is described. Testing indicates some material to be clay of low plasticity.

5.2.4 Bedrock Geology

Mercia Mudstone Group:

Exploratory hole logs describe the material as stiff to hard, sometimes soft, weathered, occasionally friable red and grey, sometimes silty sandy, marl with bands of grey siltstone and marly siltstone. Some descriptions include siltstone pieces and hard skerry bands. The less weathered material is described as a very weak mudstone, with laminations of stronger siltstone and sandstone. Testing indicates some material to be clay of low to intermediate plasticity.

The 1978 Site Investigation Report published by A. Monk & Company Ltd indicates that the upper layers of the Marl comprised a residual soil derived from bedrock, with lithorelics of mudstone and siltstone. It was usually possible to obtain undisturbed samples from these strata. However, some of the samples were too hard for triaxial testing to be carried out.

SPT tests carried out in the boreholes give results of between 30 and 60 (for 300mm) down to a depth of 6 – 9 m. Refusal is commonly encountered below this depth.

Summary:

The sequence is considered to indicate the weathering profile within the predominantly argillaceous material with subordinate units described as siltstone to sandstone. Therefore, the material is also variously described as clay, silt and gravel. It is inferred from the geology map sheet(Ref 5) that this unit is possibly the Tarporley Siltstone Formation to the north of the Junction and Sidmouth Mudstone Formation, Gunthorpe Member to the south of the Junction.

Weathered skerry bands may have been identified in the exploratory holes. Sandstone and siltstone beds (skerries) are indicated on geological mapping to the south-east of the Junction. The log description for trial pit T2 indicates green/grey Siltstone (skerry) at least 0.57 m thick (total thickness not proven) at a depth of 2.43 m.

Mapping(Ref 5) indicates an east to west trending fault is shown to cross the alignment at the Junction, although previous mapping(Refs 6 & 8) indicates this to be south-east to north-west trending, crossing the alignment approximately 150 m to the north.

5.2.5 Groundwater

Information on local groundwater conditions is limited to information on a number of BGS borehole logs. The boreholes were drilled in 1971 and were offset from the alignment of the A38 by between 20 m and 50 m to the north-west. The lithology recorded in a selection of the available logs provided in Drawing HA514503-URS-08-DR-GE-00.006.

Water strikes and standing water levels recorded during drilling provide an indication of groundwater conditions:

- Shallow groundwater conditions (around 1 to 3 mBGL) were encountered to the north-east of the roundabout and in the near vicinity of Markeaton Lake primarily within Alluvium and River Terrace deposits. This is expected because the Alluvium and Allenton Sand and Gravel Member are classified as a Secondary A aquifer.

- Immediately to the north-east of the roundabout groundwater levels were recorded at around 2.5 to 3.5 mBGL. Where superficial deposits are absent, water level information on the borehole logs suggests that the bedrock may be in partial hydraulic continuity with the superficial deposits nearer to the Lake. Immediately to the south-west of the roundabout the borehole logs suggest that groundwater strikes may only occur at depths greater than 9 mBGL. The discrepancy between conditions either side of the roundabout coincides with the mapped geological fault and change in outcrop geology. It is possible that the geological fault is acting as a barrier to groundwater flow and/or the bedrock geology to the south of the fault (mapped as the Gunthorpe Member of the Sidmouth Mudstone Formation) has a lower permeability than the bedrock geology to the north (mapped as Tarporley Siltstone Formation).

- The water strikes and standing water levels recorded during drilling suggest there are semi-confining layers within bedrock.

5.2.6 Ground Chemistry

Chemistry testing was undertaken as part of historic ground investigations in the 1970's. Test result units are not given therefore the data are not presented.

5.3 Little Eaton Junction

The ground conditions in the vicinity of the Junction are anticipated to comprise:

- Topsoil, overlying;
- Artificial ground including Made Ground;
- Superficial deposits including Alluvium;
- Underlain by rocks of the Millstone Grit Group.

The thickness of alluvial deposits and consequently the depth to rock is not proven towards the River Derwent in the west.

Laboratory testing is summarised in Appendix F-3. The plan and long-section of the Junction is shown on Drawings HA514503-URS-08-DR-GE-25.004 and HA514503-URS-08-DR-GE-00.007.

5.3.1 Topsoil

Topsoil was encountered in the majority of exploratory holes to a thickness of up to 0.5 m, although typically in the range 0.2-0.3 m.

5.3.2 Artificial Ground

Made Ground:

The Made Ground encountered during the 2012 investigation comprises embankment fill material to a maximum depth of 5.75 m. The material is typically described as Sand and / or Gravel, with secondary constituents of gravel, silt, sand and clay. The Sand is generally fine to coarse. The Gravel is fine to coarse angular to sub-angular of sandstone and limestone, occasionally quartzite. The material is variously described as brown yellow grey, dark red brown.

Horizons are also described as slightly sandy slightly gravelly Clay, sometimes friable. Typically firm to stiff consistency, orange brown, brown and brown grey. The material is noted to be soft in WS12.

There is occasional, medium to high cobble content, angular of limestone and sandstone. Boulders are noted in the inspection pit for BH3. The material is noted to sometimes contain fragments of brick, concrete, ash, clinker, slag, ceramic tile, coal, flint, glass, wood and shell fragments.

Testing indicates that this material may typically be clay and silt of low to intermediate plasticity. Moisture content varies without a particular trend throughout the depth of the material, although may be slightly higher near surface. SPT-N values vary between 4 and 50.

In WS12 a number of zones of no recovery and a moderate hydrocarbon odour is recorded, from material described as “probable collapse and fallen down hole”.

Made Ground was encountered in the 1972 investigation within borehole 7R described as loose brown very silty very sandy clay with organics and sandstone fragments and cobbles.

5.3.3 Superficial Deposits

Alluvium (Predominantly Silt & Clay):

For the 2012 investigation, the material typically underlies Topsoil or Made Ground (embankment fill) to a thickness of up to 2.6 m. The material is generally firm to stiff beneath embankment fill, sometimes soft to firm, typically described as Clay with secondary constituents in varying proportions of sand, gravel and silt. Sand is generally fine to medium, and gravel subangular to subrounded, fine to coarse of limestone, sandstone, mudstone and siltstone. The material is typically brown with orange grey mottling also noted. Occasional decomposed roots are recorded.

Distinct horizons are recorded as dark grey or grey brown, variably sandy to very sandy, silty and slightly gravelly Clay or Silt. The material is typically soft, sometimes firm to stiff. Organic Silt, and frequent decomposed roots are noted in some holes. Fine gravel size fragments of carbonaceous material or coal are occasionally noted.

Some holes recorded no recovery and in WS12 it is likely that material from the overlying Made Ground horizon has collapsed into the windowless sampler hole.

Testing indicates that this material may typically be clay of low to high plasticity, up to clay of very high plasticity. Moisture contents tend to decrease with depth. SPT-N values vary between 1 and 32 recorded during the 2012 investigation; lower values are probably affected by groundwater strikes.

The 1972 investigation indicates typically soft and firm brown and yellow brown grey, sometimes dark brown and mottled, silty Clay to depths of up to 2.7 m. Lenses of sand and gravel (fine to medium of sandstone and flint) are noted. Organics are occasionally noted.

Alluvium (Predominantly Sand & Gravel):

The 2012 investigation indicates the material to be primarily Gravel, with less frequent horizons of sand and sand & gravel. The material underlies the silt & clay alluvial material to an unproven thickness of up to 8 m.

Gravel, variously very sandy and slightly to very clayey is recorded. Sand is fine to coarse. The gravel is subangular to subrounded, fine to coarse of sandstone, mudstone and siltstone, limestone and mixed lithologies. Typically brown and grey brown.

The Sand is gravelly and very clayey, brown locally mottled orange brown.

The Sand and Gravel is typically medium dense, sometimes loose and sometimes dense with depth. Pockets of grey sandy silt are identified.

Some horizons at depth are noted to be very dark grey fine to coarse Sand with rare shell fragments, and dark grey and grey brown slightly clayey Sand and Gravel. Sand is fine to coarse. Gravel fine to coarse of mixed lithologies.

SPT-N values recorded from the 2012 investigation vary between 6 and 50.

The 1972 investigation indicates that the coarse alluvial material underlies the predominantly silt & clay alluvial material. It is typically described as loose to medium dense fine to coarse Sand and Gravel or sandy Gravel. Sometimes the upper horizon is described as silty Sand, clayey in part. The material is described as brown in colour.

River Terrace Deposits:

These deposits are not indicated on the mapping in the immediate vicinity, although an exposure is identified approximately 1 km to the south-west of the Junction.

5.3.4 Bedrock Geology

Millstone Grit Group:

The materials encountered predominantly comprise mudstone overlain further north by siltstone. Sandstone was also recorded to the north of the Junction.

Mudstone:

Logs indicate material near surface to be predominantly firm, sometimes soft to firm, described as silty or sandy Clay with some gravel / fragments (of sandstone and siltstone) and occasional sand bands. The material is described as brown, yellow brown, grey and dark grey mottled brown.

With depth, the material is described as fissured or laminated and as hard broken mudstone.

The material becomes dark grey and black, very silty, sometimes shaly, Clay. The material is noted to contain fragments of dark grey and black shaly Mudstone. Frequent horizontal jointing with iron staining is identified in BH57B.

In borehole A3 beneath the Alluvium a material was encountered described as very stiff friable grey shaly Clay with some Shale which may represent Mudstone of the Millstone Grit Group

SPT-N values generally increase with depth through the profile. Chiselling was occasionally used to advance the borehole.

Siltstone:

Typically the material is firm silty Clay or clayey Silt near surface, with fragments of siltstone, sandstone and mudstone, sometimes cobbles. It is typically light brown mottled yellow brown in colour.

The material becomes grey brown very weak shaly Siltstone, with occasional bands of sandstone. Iron staining is noted and it is sometimes shattered throughout.

SPT-N values generally increase with depth through the profile. Chiselling was occasionally used to advance the borehole.

Sandstone:

The material is described as soft becoming firm brown silty sandy Clay with sandstone fragments near surface. Beneath this or below siltstone units, the material is described as weak (also medium hard) fine to medium light brown micaceous Sandstone.

SPT-N values generally increase with depth through the profile. Chiselling was occasionally used to advance the borehole.

Summary:

The sequence is considered to indicate the weathering profile within the predominantly argillaceous material with sandstone units present further to the north. Therefore, the material is also variously described as comprising clay, silt and sand near to surface. It is inferred from the geology map sheet(Ref 5) that this unit is possibly the Millstone Grit Group: Morridge Formation, potentially with a transition into the Marsden Formation and Ashover Grit towards the north.

5.3.5 Groundwater

Water strikes from the investigations indicate levels of around 0.5 m to 3 m below existing or previous (where below embankment fill) ground levels, principally within the alluvial material. Monitored levels from the 2012 investigation indicate similar levels.

5.3.6 Ground Chemistry

Ground chemistry information was recorded as part of the 2012 investigation within embankment fill and alluvial materials:

- pH – 6.5 to 8.6
- Total Sulfate (%SO_4) – 0.02 to 0.18
- Water Soluble Sulfate (g/l SO_4) – 0.01 to 0.26
- Total Sulphur (%S) – 0.01 to 0.12
- Chloride (mg/kg) – 13 to 370
- Organic Matter (%C) - <0.5 to 3.4

6 PRELIMINARY ENGINEERING ASSESSMENT

The grade separation of the three junctions will involve the construction of a series of structures, cuttings and embankments. Reference should be made to the Geotechnical Constraints Plans, Drawings HA514503-URS-08-DR-GE-25.002 to 004 and long-sections Drawings HA514503-URS-08-DR-GE-00.005 to 007. The topographic survey was not available at time of report issue.

6.1 Cuttings

Where cuttings are to be excavated (primarily Kingsway and Markeaton), side slope gradients of 1(v):2(h) to 1(v):2.5(h) are anticipated to be required within Mercia Mudstone strata to depths of up to 8 m, although it is likely that the upper portion of the slope would be excavated within Made Ground or superficial / reworked material.

Where Made Ground or superficial / reworked material is encountered, reduced slope gradients may be required, or where spatial constraints dictate the material could be excavated and replaced with suitable material (e.g. selected granular fill) or a retaining structure / strengthened earthwork could be provided.

It is likely that material excavated from cutting sections within Mercia Mudstone Group material will predominantly be suitable for re-use as general fill (e.g. Class 2). Typically material acceptability control is suited to the use of MCV apparatus. Some material may be sensitive to increases in moisture content leading to compaction and trafficability issues. Some material, especially from near surface, may require processing to within acceptable specified limits.

Made Ground is less likely to be acceptable for use as general fill and may require sorting and processing prior to re-use. Alternatively it may be acceptable as Class 4 material (fill to landscape areas). Potentially contaminated material will require assessment of suitability for re-use.

It is anticipated that small quantities of Alluvium and Terrace deposits would be excavated as part of the scheme, although greater quantities of Alluvium may be encountered at Kingsway.

Groundwater seepages are likely within the Mercia Mudstone strata, in particular the skerry beds, which would require interception by slope face drainage, along with crest and toe drainage.

6.2 Embankments

Where embankments are to be constructed (primarily Kingsway and Little Eaton), side slope gradients of 1(v):2(h) to 1(v):2.5(h) are anticipated to be required for slopes constructed from general fill Mercia Mudstone strata, although within flood prone areas a reduced gradient of 1(v):3(h) may be required. The construction of strengthened earthworks would allow the use of steeper slope gradients where geometry constraints dictate.

A starter layer is likely to be required on softer alluvial formation. Excavation and replacement with suitable fill may be required in other areas where localised softer materials are encountered.

Potential flood conditions within the River Derwent floodplain at Little Eaton may require mitigation measures to be incorporated into the embankment construction,

such as reduction in side slope gradients, restriction of fill class or the use of granular toe construction.

Short-term and long-term consolidation settlement of the embankments constructed on compressible alluvial material is likely to require measures to accelerate pore pressure dissipation and consequently settlement periods. This may be achieved through the use of surcharge, starter / drainage layer and the potential installation of vertical band drains. Interaction and differential settlement with bridges, likely to be constructed on piled foundations, will need to be considered.

Short-term stability within alluvial material may be of concern, which may require mitigation by the use of staged embankment construction with pause periods and the incorporation of basal reinforcement.

Settlements of embankments constructed on Mercia Mudstone strata are anticipated to be more rapid and of a lower magnitude than the alluvial material, with dissipation of pore pressures and the majority of settlement occurring during the construction period.

6.3 Subgrade

The pavement founding material is most likely to be in-situ or site won Mercia Mudstone and it is anticipated a CBR value of 3 to 4% is achievable. Localised sub-formation treatment for soft spots may be required, especially within alluvial or made ground materials.

Tie-in to existing carriageway construction may dictate the thickness of construction layers, e.g. to provide continuity of cross-carriageway drainage within granular layers.

6.4 Structure Foundations

6.4.1 Bridge Foundations

It is anticipated that pile foundations will be required for bridges, dictated by the presence of near surface soft or compressible ground conditions (e.g. Alluvium at Little Eaton and Kingsway), spatial constraints, high groundwater levels and compatibility with existing structure foundations where extensions are required (e.g. railway bridge at Little Eaton).

In particular spatial constraints may require the use of a bored pile abutment, using top-down construction, tied in to adjacent bored pile retaining walls, along with possible groundwater exclusion at Markeaton.

Spread footings may be feasible for lighter smaller structures such as footbridges, culverts and minor bridge / wingwall extensions founded on Mercia Mudstone.

Interaction and differential settlement between bridges constructed on pile foundations and adjacent approach embankments will need to be considered.

6.4.2 Retaining Structures

Spatial constraints during construction are likely to require retaining structures to allow the construction of the proposed cut through Markeaton to an approximate height of 8 m. A contiguous bored pile retaining wall constructed in conjunction with bored pile abutments for bridges is likely to be required. Piling lengths may be in the order of 25 m requiring the use of large piling equipment. It is possible that groundwater conditions and the potential for contamination will dictate that a method

to exclude groundwater from the cut section is required, such as the use of secant piling, diaphragm walling or the construction of a concrete box section / basal slab. Due to high groundwater levels, capacity to resist uplift is also likely to be required.

Retaining walls up to approximately 4 m high may be required to support localised areas of over-steepening due to geometry constraints. This may include pre-cast concrete sections, gabion baskets or sheet piling, although there may be associated noise and vibration issues to surrounding properties / area. Where temporary space constraints do not dictate, these may be able to be founded on spread footings.

6.5 Contaminated Land / Soil Chemistry

Kingsway Junction:

A 2005 ground investigation identified that the embankments contained Made Ground which included foundry sand. The Made Ground contained high concentrations of lead (maximum 714 mg/kg), iron (maximum conc. 43,118 mg/kg) and Total Petroleum Hydrocarbons (TPH) (maximum conc. 25,952 mg/kg). However, lead did not exceed the corresponding published SGV for industrial / commercial end-use. It should be noted that SGVs were (are) not available for iron and total TPH.

The high TPH concentration was recorded within the old road surface material. The old road surface material also has the potential to contain elevated concentrations of PAHs, as older road surface materials contained tar materials whereas modern materials contain bitumen.

Leachate tests recorded elevated concentration of iron when compared against the Environmental Quality Standard (EQS) current, at the time of testing in 2005. The method limit of detection for copper, sulphide, phenol and ammoniacal nitrogen were greater than the corresponding EQS. There is a possibility that these four determinands may be present, in soil leachate, at potentially elevated concentrations.

Historic landfills are present on the western and eastern side of the junction. These historic landfill sites may be a source of air, ground and groundwater pollution. Potential soil contamination may be an issue if the scheme extends across areas of the historic landfills.

Markeaton Junction:

The area of Markeaton Junction was formerly agricultural land. A junction at Markeaton is first shown on the 1938 1:10,560 scale Ordnance Survey map. Therefore, there is the potential for Made Ground and potential contaminants to be present due to the long period of time that a road junction has been present at the site. The potential contaminants may include PAHs, TPHs, lead, cadmium etc which are associated with the use of roads by vehicles.

The current Markeaton junction is primarily at grade. Therefore, there is a low likelihood that material similar to that previously identified at Kingsway Junction, such as Made Ground containing foundry sand, will be present at Markeaton Junction.

A petrol station is located adjacent to Markeaton Junction. It is proposed that the A38 will be in a cutting and it is understood that groundwater has been recorded at shallow depth at this location. Dewatering of excavations is likely to be required during the construction of the scheme. Any dewatering activity will need to account

for the potential of the presence of hydrocarbon contaminated groundwater being drawn into the dewatered excavations. This may be a short-term temporary works issue but there is also the possibility that there could be a long-term maintenance issue if the drawdown of groundwater has to be maintained.

Little Eaton Junction:

Embankments are present at Little Eaton Junction. There is a possibility that the embankments contain Made Ground materials similar to those encountered within the embankments at Kingsway Junction.

Fuel spillages have occurred in the past at the junction following road traffic collisions. The fuel spillages may have resulted in the presence of localised 'hotspots' of hydrocarbon contamination.

The line of the former Derby Canal underlies Little Eaton Junction. 'Waste' materials from local industries may have been used to fill the former canal structure. Such waste materials may contain potential contaminants, at concentrations greater than Soil Guideline Values (SGV) or Generic Assessment Criteria (GAC).

Gas monitoring undertaken by Costain in 2012 indicates the presence of low concentrations of carbon dioxide (<1% v/v) and methane (<0.5% v/v), with flow rate up to 1 l/hr in all three (3) wells monitored. The data available do not indicate that ground gas will have a significant impact on the scheme.

The limited chemical data obtained by Costain in 2012 indicates that the pH values of the ground materials are neutral to slightly alkaline. Organic matter content of the ground material tested ranged from <0.5% to 3.4%.

A hydrocarbon odour was noted at 3.45 mBGL in Costain's WS12 exploratory hole. However, due to no recovery at various depths it is conjectured in the engineer's log that it is from material that has fallen down the hole.

A historic landfill site, which accepted construction and demolition waste, is located to the north of the junction. The former landfill site may be a source of ground gas and groundwater pollution. Potential soil contamination may be an issue if the scheme extends onto the area of the former landfill.

A ground investigation undertaken in 2012 recorded Made Ground material including wood, metal, bricks, concrete, possible railway sleepers, rubber, crushed stone and soft black clay. It appears that there is no basal liner to the landfill that would prevent the potential migration of contaminants into the underlying Sand and Gravels. If elevated contamination concentrations are present within the landfill contaminants may migrate into the Sand and Gravels.. Groundwater flow is anticipated to be towards the River Derwent.

The presence of a road haulage service and commercial vehicle dealers, to the north of the junction, may have resulted in spillages and/or leakages of oils and fuels into the ground. Any ground works in this area should take into consideration the potential presence of low scale hydrocarbon contamination in the ground.

6.6 Existing Geotechnical Problems

The three junctions are located in areas of varied artificial ground, superficial deposits and bedrock geology. Historic land use and previous highway construction

have resulted in a number of geotechnical problems, which will require assessment and may require remedial treatment or mitigation during construction:

- Existing earthwork defects were identified as part of the Principal Earthworks Inspections (Section 3.1).
- Soft and compressible alluvial deposits have been inferred or identified, principally at Kingsway and Little Eaton, although deposits may also be encountered beneath sections of carriageway north of Markeaton.
- Backfill to the former Derby Canal at Little Eaton may be soft and compressible outside areas of existing road construction.
- Fault disturbed material likely to be present at Kingsway and Markeaton. In particular the fault at Markeaton is indicated in the vicinity of the potential proposed structure. Fault locations are inferred, therefore the location where fault disturbed material may be encountered may be different to that indicated on mapping.
- Remnants of previous carriageway construction (in particular Markeaton), dismantled railway (Kingsway) and existing canal structures (Little Eaton).
- High groundwater levels and potential groundwater / surface water interaction, in particular at Markeaton.
- Potential for soil contamination associated with the historic landfill (Rowditch Tip) present on the site. Cut materials may not be acceptable for re-use within the Scheme.
- Potential landfill leachates that may be generated and may impact the groundwater and surface water features in the site vicinity. Potential contaminants in soil and/or landfill leachate may include metals, other inorganic contaminants, TPHs, PAHs, VOCs and SVOCs.
- Potential for landfill gas (methane and carbon dioxide) concentrations to be generated from the historical landfill present adjacent to the Scheme.
- The petrol station adjacent to Markeaton Junction means that there is a potential for the presence of hydrocarbon contaminated groundwater being drawn into the dewatered excavations.
- The embankments at Little Eaton Junction may contain Made Ground material similar to those encountered at Kingsway Junction. There is a former landfill site which accepted construction and demolition waste to the north of the junction which may be a source of ground gas and ground water pollution.
- Fuel spillages from road traffic collisions and possible spillages and leaks of oils and fuels from the road haulage and commercial vehicle dealers may result in the presence of hydrocarbon contamination in the ground.

7 COMPARISON OF PROJECT OPTIONS AND RISKS

7.1 Summary of Desk Study Findings

Discussion of potential issues and possible engineering solutions for different construction elements are given in Section 6. The following sections summarise the principal risks.

This report does not cover aspects related to existing services, which may require avoidance or diversion.

7.1.1 Kingsway Junction

The current roundabout at is situated on embankment and at-grade, with a depression in the centre of the roundabout relative to carriageway level, crossed by the channels for Bramble Brook. Approaches to the roundabout are in cut, at-grade and on embankment. The Junction is surrounded by industrial and retail parks, college with sports grounds, open grassland and residential development.

The proposed Junction layout comprises the construction of an overbridge, with the main-line constructed in cutting approximately 7 m deep, partially supported by retaining walls, with embankment construction for adjoining roads. Modifications are required to adjacent road bridge structures.

Ground conditions are anticipated to comprise Topsoil; artificial ground including Made Ground; superficial deposits including Alluvium; underlain by rocks of the Mercia Mudstone Group.

- Existing earthwork defects have been identified.
- Soft and compressible alluvial deposits (including peaty soils) have been inferred and soft near surface ground conditions have been identified.
- Fault disturbed material likely to be present beneath carriageway sections north of the Junction. Fault locations are inferred, therefore the location where fault disturbed material may be encountered may be different to that indicated on mapping.
- Remnants and contamination associated with the dismantled railway may be present.
- High groundwater levels are anticipated.
- Site space constraints from adjacent infrastructure may restrict the foundation construction options (e.g. large excavation for spread footings and pile construction on sloping ground).
- Voided ground (e.g. dissolution of gypsum) may be present.
- Soil contamination may be present in Made Ground materials used to construct embankments.
- Soil contamination may be present in areas of the two landfills adjacent to the junction.

- Historic landfills may be sources of ground gas and/or groundwater pollution.

7.1.2 Markeaton Junction

The current roundabout at Markeaton Junction is at-grade, generally surrounded by built-up urban area, with Markeaton Park to the north-west.

The proposed Junction layout comprises the construction of two overbridges, with the main-line constructed in cutting supported by retaining walls. Modifications are required to adjacent culvert and footbridge structures.

Ground conditions are anticipated to comprise Topsoil; artificial ground including Made Ground; superficial deposits including Alluvium and River Terrace deposits; underlain by rocks of the Mercia Mudstone Group.

- Soft and compressible alluvial deposits have been identified and may be encountered beneath sections of carriageway north of the Junction.

- Fault disturbed material likely to be present within the vicinity of the proposed bridge and retaining wall structures. Fault locations are inferred and have been shown on mapping in different locations. Therefore the location where fault disturbed material may be encountered may be different to that indicated on mapping.

- Remnants of previous carriageway construction have been identified.

- High groundwater levels with the potential for groundwater / surface water interaction.

- Leakages and / or spillages from the petrol station may have resulted in the presence of hydrocarbon contamination in soils and / or groundwater.

- Potential for encountering contaminated materials, groundwater and ground gas in ground at the northern end of the scheme, where the scheme is located on an area of a historic landfill.

- Potential for encountering ground gas and groundwater from the historic landfill to the east of the site is low.

7.1.3 Little Eaton Junction

The current roundabout at Little Eaton Junction is on shallow embankment, with gabion basket retaining walls constructed as part of the Economy Scheme in 2014. The surrounding land largely consists of flat farmland.

The proposed Junction layout comprises the construction of two underbridges and associated approach embankments, with modifications to adjacent railway and underpass structures and removal, modification and construction of culverts.

Ground conditions are anticipated to comprise Topsoil; artificial ground including Made Ground; superficial deposits including Alluvium; underlain by rocks of the Millstone Grit Group.

- Existing earthwork defects have been identified.

- The Junction is primarily within the River Derwent floodplain.
- Soft and compressible alluvial deposits have been identified beneath proposed embankment and structure locations. The thickness of alluvial deposits and consequently the depth to rock is not proven towards the River Derwent in the west.
- Existing gabion walls constructed for the “Pinch Point” scheme may be adversely affected by construction of the adjacent embankment.
- Remnants of the former Derby Canal. Remains of structures may be present and backfill may be soft, compressible and contaminated.
- High groundwater levels have been encountered.
- Existing drainage may be affected by the removal, modification and construction of culverts.
- Spillage/leakages of oils/fuels following road traffic collision may present localised ground contamination in the vicinity of the junction.
- Spillages/leakages of oils/fuels at the locations of the road haulage service and commercial vehicle dealers to the north of the site.
- Potential for groundwater pollution and/or ground gas sourced from the historic landfill site to the north of the scheme.

7.2 Geotechnical Risk Register

The geotechnical risk register is presented in Table 7.1.

Table 7.1: Geotechnical Risk Register

	Hazard / Risk (Principal location given in brackets)	Consequence	Before Control			Control
			P	I	R	
1	**Ground Conditions:**					
1.1	Soft / compressible ground. Embankment on alluvial material and historic route of Derby Canal (Kingsway and Little Eaton).	Short-term instability of earthwork. Potentially large total settlement / differential settlement of embankment and adjacent construction / structures. Possible distortion of services beneath embankment.	4	3	12	Undertake targeted ground investigation. Ground treatment, construction monitoring, surcharging and pause periods potentially required.
1.2	Soft ground, including peaty soils. Cutting (Kingsway).	Local or global slope failure, excavated material potentially unsuitable for re-use as fill material.	3	3	9	Undertake targeted ground investigation and testing of material acceptability for re-use. Slope stability remedial solutions potentially required.
1.3	Soft / compressible ground. Structures (Kingsway and Markeaton).	Founding stratum does not meet strength requirements. Increased foundation size / depth required.	2	4	8	Undertake targeted ground investigation.
1.4	Depth to suitable bearing stratum for structure foundations greater than anticipated.	Deeper foundations required, possibly with mobilisation of alternative plant.	2	4	8	Undertake ground investigation.
1.5	Rockhead / hard strata encountered at shallower depth than anticipated.	Interception of hard strata during excavation / structure piled foundation construction. Excavation / construction progress reduced. Inappropriate plant on site to carry out excavation.	2	3	6	Undertake ground investigation.
1.6	Fault disturbed ground.	Broken ground, softened and disturbed material leading to preferential instability.	3	3	9	Observation during ground investigation, construction and treatment of material.
1.7	Soft / unsuitable material at pavement formation level.	Short-term trafficability problems. Increased construction thickness required.	3	2	6	Include as part of ground investigation. Allowance for excavate and replace / treatment.
2	**Groundwater Conditions:**					
2.1	Shallow groundwater levels. Cutting and structure (Markeaton).	Structure type dictated by unknown groundwater conditions. Where groundwater levels are elevated constant drainage likely to be required. Alternative is to cut off groundwater ingress into underpass. Piled wall and abutments with concrete trough; secant piled wall and abutment; or secant piled with basal slab	4	4	16	Additional ground investigation, permeability testing and installation of groundwater monitoring

	Hazard / Risk (Principal location given in brackets)	Consequence	Before Control			Control
			P	I	R	
2.2	Shallow groundwater levels. Cutting and structure (Markeaton).	Groundwater ingress into cutting and deformation / uplift of structure / road pavement due to groundwater pressure.	4	4	16	Undertake targeted ground investigation and pre-construction monitoring. Drainage and construction measures. Temporary drainage and construction stage monitoring.
2.3	Shallow groundwater levels (embankment and structures within River Derwent floodplain).	Short-term instability during construction due to excess pore water pressure.	3	3	9	
2.4	Drawdown of groundwater due to drainage measures (Markeaton).	Drainage of water bodies due to dewatering of underpass. Where dewatering is used, potential that it will affect water bodies in the vicinity due to drawdown of groundwater. Especially through more permeable horizons (e.g. Skerry Bands).	2	4	8	Additional GI, permeability testing and installation of groundwater monitoring.
3	**Contamination:**					
3.1	Contaminated material. Landfill site (Little Eaton).	Extent of landfill site greater than anticipated or landfill liner breached and waste / leachate extends to within Scheme corridor.	2	4	8	Undertake targeted contamination ground investigation. Remediation of contaminated material potentially required (e.g. in-situ treatment or removal).
3.2	Contaminated material. Filling station (Markeaton).	Contamination of adjacent soil and groundwater from current/historical leakages from underground fuel tanks.	2	4	8	
3.3	Contaminated material. Historic route of Derby Canal (Little Eaton).	Contaminated ground from previous spillage / dumping of material and/or backfilling of the canal structure within Scheme corridor.	3	3	9	
3.4	Contaminated material. Old road surface (Kingsway).	Presence of hydrocarbon products mixed into soils.	3	3	9	Undertake targeted contamination ground investigation. Further testing and risk assessment.
3.5	Contaminated material. Foundry Sand (Kingsway).	Possible elevated iron, copper, sulphide and ammoniacal nitrogen concentrations posing risk to controlled waters.	3	3	9	Road surface construction to break exposure pathway. Undertake targeted contamination ground investigation. Further testing and risk assessment.

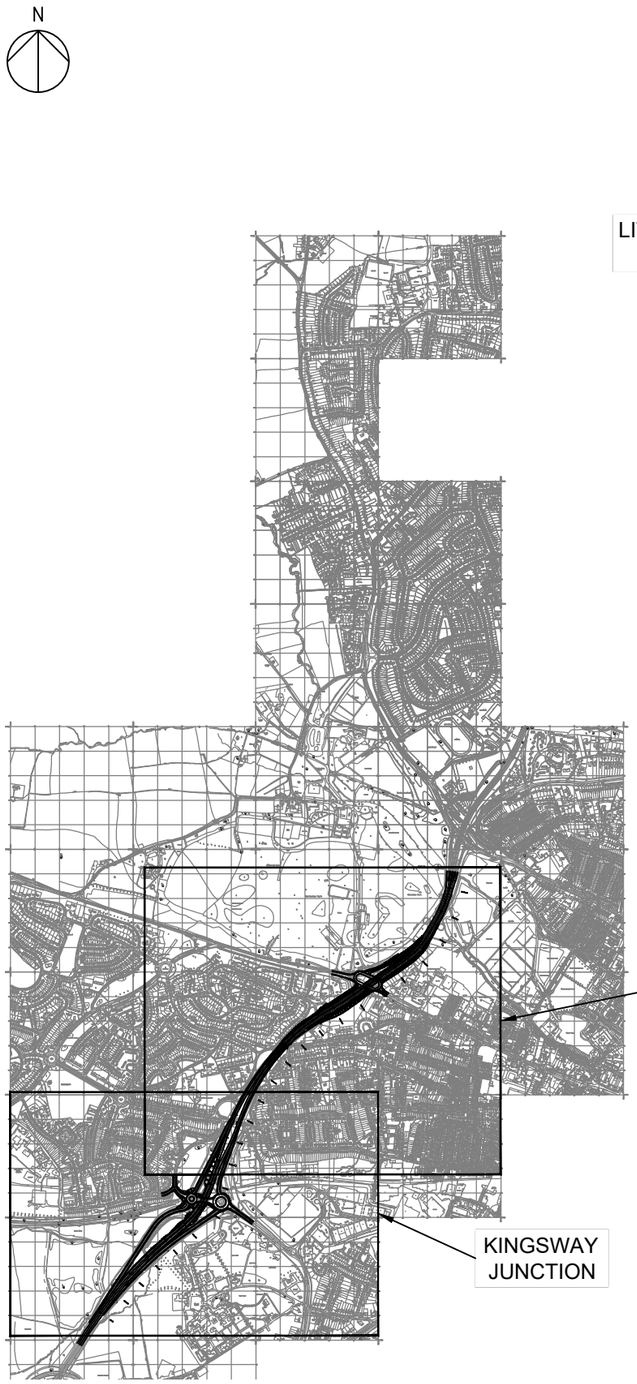
	Hazard / Risk (Principal location given in brackets)	Consequence	Before Control			Control
			P	I	R	
3.6	Contaminated groundwater (Markeaton)	Contaminated groundwater present in areas where dewatering of excavations is required. Water from dewatering activity requires treatment/processing. EA does not allow Environmental Permit to discharge water. If drawdown of groundwater has to be maintained then there is possibility of long term maintenance issue.	2	4	8	Undertake targeted contamination ground investigation, install groundwater monitoring wells, sample for chemical analysis.
4	**Ground Chemistry:**					
4.1	Ground chemistry / solution features.	Ground conditions aggressive to concrete and steel products. Pavement heave. Voids / softened material (e.g. resulting from dissolution of gypsum) leading to collapse / increased settlement of earthworks and structures.	3	3	9	Undertake targeted ground investigation and testing for aggressive ground conditions and solution features.
5	**Re-Use of Material:**					
5.1	Proportions of acceptable / unacceptable material from cuttings different to predicted.	Insufficient volume of acceptable material resulting in increased import of fill materials. Increase in unacceptable material treatment and/or off-site disposal costs.	3	3	9	Undertake targeted ground investigation and testing of material acceptability for re-use.
5.2	Presence of Made Ground, including old road surface (elevated PAH/TPH) and foundry sand (Kingsway).	Old road surface material may not be acceptable for re-use.	3	2	6	Undertake further testing / risk assessment of material acceptability for re-use.
5.3	Contaminated material. Re-use of materials.	Across all three locations risk that excavated material is contaminated and requires treatment before re-use as general fill, restrictions on its reuse or cannot be re-used within the scheme.	2	4	8	Undertake further testing / risk assessment of material acceptability for re-use
6	**Site Conditions:**					
6.1	Space constraints resulting in inability to construct foundations (Kingsway, Markeaton and Little Eaton)	Site space constraints of working adjacent to existing infrastructure may restrict the number of foundation construction options it is possible to consider (e.g. large excavations for spread footings and pile construction on existing sloping ground).	3	3	9	Consider outline temporary works and space requirements for the construction stage.
6.2	Embankment construction resulting in existing gabion wall instability (Little Eaton).	The stability of existing gabion walls constructed for the “Pinch Point” scheme may be adversely affected by construction of the adjacent embankment.	3	3	9	Undertake analysis to establish the effect of the embankment on the existing wall.

	Hazard / Risk (Principal location given in brackets)	Consequence	Before Control			Control
			P	I	R	
6.3	Flooding adjacent to earthwork. River Derwent floodplain (Little Eaton).	Short-term trafficability problems and construction works flooding. Embankment instability following flood event. Erosion, swelling and collapse settlement of embankment fill.	3	3	9	Provide appropriate design features. Surface / scour protection, selection of appropriate fill and reduced slope gradients.
6.4	Existing earthwork defects.	Earthwork instability during construction and more robust design required for new earthworks.	3	2	6	Update Preliminary Sources Study and undertake targeted ground investigation.
6.5	Existing structure foundations.	Interception of existing foundation during foundation excavation / installation and cutting excavation.	3	2	6	Review applicable as-built information during design and undertake investigations if necessary.
6.6	Existing services, in particular those installed after previous studies.	Services require diversion and/or protection.	2	3	6	Review applicable information during design and undertake ground investigation where necessary (e.g. for trenchless crossings).
6.7	Lack of topographic survey data	Possible implications for scheme geotechnical solutions / costs / programme.	3	3	9	Carry out topographic survey and review during ground investigation / design.
6.8	Existing drainage may be affected by the removal, modification and construction of culverts.	Drainage system inadequacies may lead to earthworks instability / flooding.	2	3	6	Drainage design to be carried out.

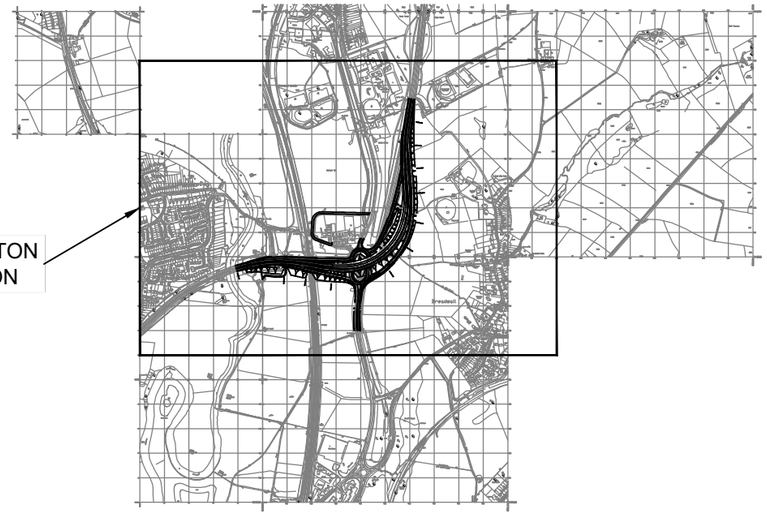
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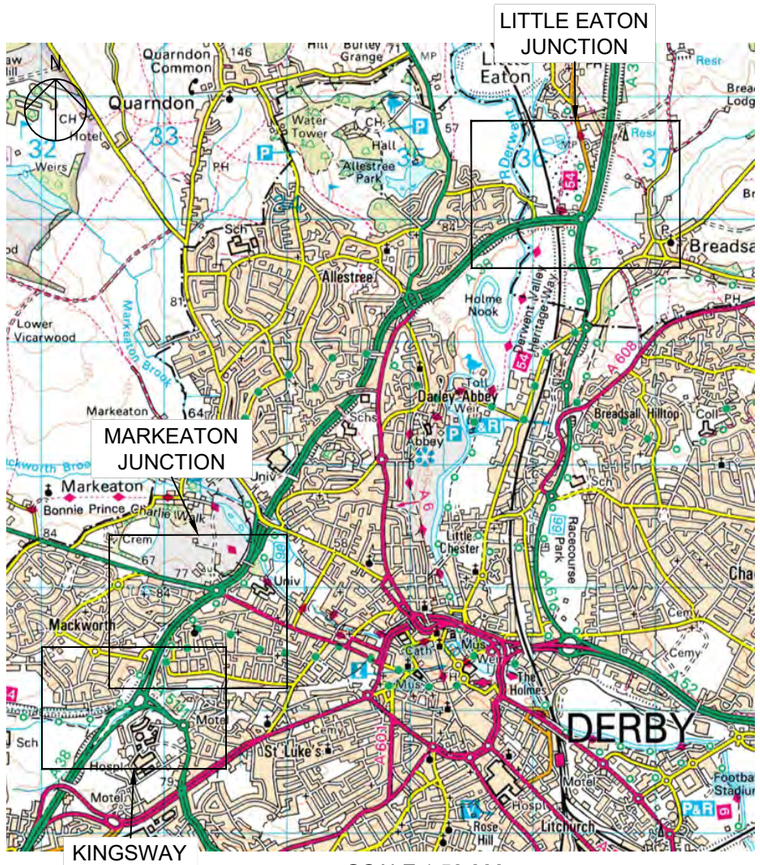
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Very Likely	5	Very High	5
Likely	4	High	4
Probable	3	Medium	3
Unlikely	2	Low	2
Negligible	1	Very Low	1

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SCALE 1:25,000





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Project Title: A38 DERBY JUNCTIONS IMPROVEMENT

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Drawing Title: SITE LOCATION PLAN

Purpose of issue: FINAL

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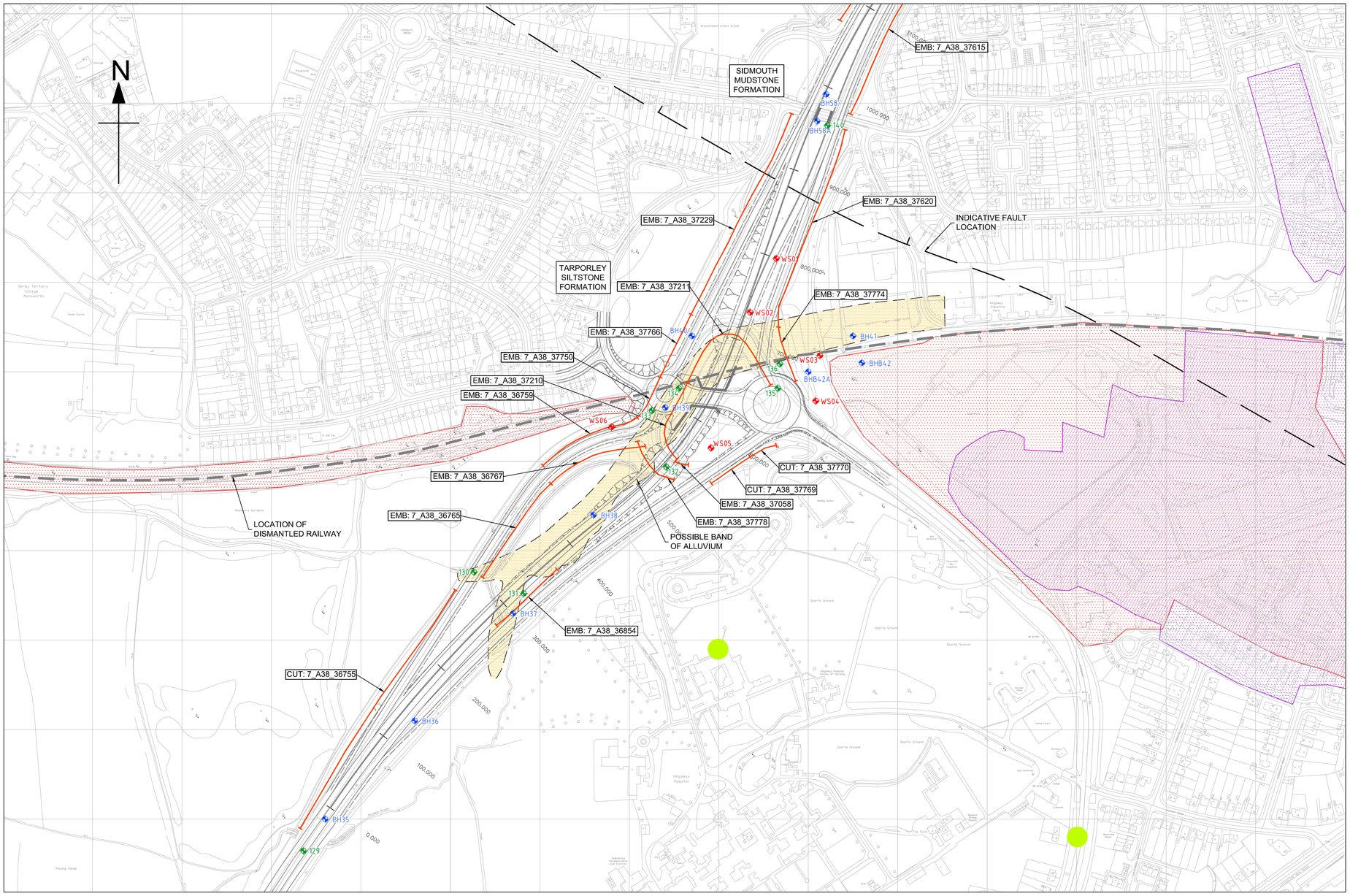
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Plot Name : A3 Landscape.ctb Proj Info\3-3 Docs\CAD_Data\HA514503-URS-08-DR-GE-25.002-2F.dwg

Attached Xrefs : | A38 BASEMAP | A38chainage v1 | HA514503-URS-00-ZZ-M2-CE-001-3R_ProposedAlignment | A38 Historical Earthworks | A38 Historical Ground Investigations-ADB1Va

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KEY

Borehole Locations

A3	1961	129	1969	SB5	1977
BH15	1963	B123	1971	BH2	2012
BH58A	1967	1R	1972	CP 1	2012

Window Sample Locations

WS5	2012
WS06	2005

Trial Pit Locations

T2	1971

- Air Shaft
- Potentially Infilled Land (Non-Water)
- Potentially Infilled Land (Water)
- Licensed Waste Management Facility
- Registered Landfill Site
- Historic Landfill Location
- Infilled Land (Non-Water) Location
- Alluvium
- Existing Earthworks Extent
- EMB: 7_A38_37229 HAGDMS Earthwork ID Embankment
- CUT: 7_A38_36755 HAGDMS Earthwork ID Cutting

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F	FINAL					

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A38 DERBY JUNCTIONS IMPROVEMENT

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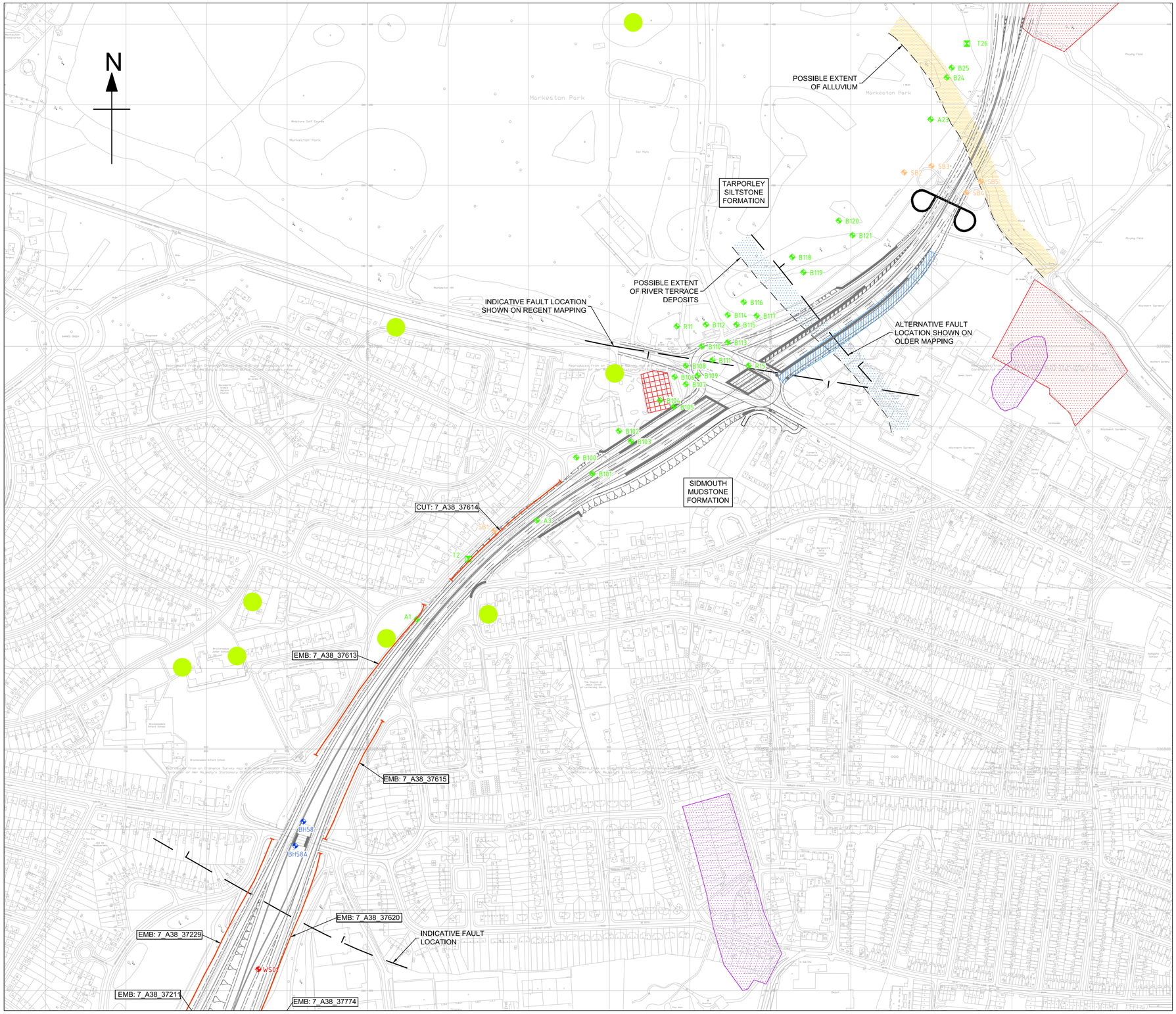
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Window Sample Locations		Trial Pit Locations	
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WS06	2005		

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- Registered Landfill Site
- Historic Landfill Location
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- Alluvium
- River Terrace Deposits
- House Foundations
- Petrol Station
- Existing Earthworks Extent
- EMB: 7_A38_37229 — HAGDMS Earthwork ID Embankment
- CUT: 7_A38_36755 — HAGDMS Earthwork ID Cutting

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F	FINAL					

Job Title

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File Name: K:\HA\71637\Highways Agency\Junctions\A38 Derby Junctions\CAD_Data\HA514503-URS-08-DR-GE-25.003-2F.dwg
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KEY

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Window Sample Locations

WS5	2012
WS06	2005

Trial Pit Locations

T2	1971

Air Shaft

Potentially Infilled Land (Non-Water)

Potentially Infilled Land (Water)

Licensed Waste Management Facility

Registered Landfill Site

Historic Landfill Location

Infilled Land (Non-Water) Location

Alluvium

Glacial-Fluvial Deposits

Extent of potential refuse or slag heap identified 0n 2000 map

Existing Earthworks Extent

EMB: 7_A38_37229 HAGDMS Earthwork ID Embankment

CUT: 7_A38_36755 HAGDMS Earthwork ID Cutting

Rev #	Revision Details					
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F	FINAL					

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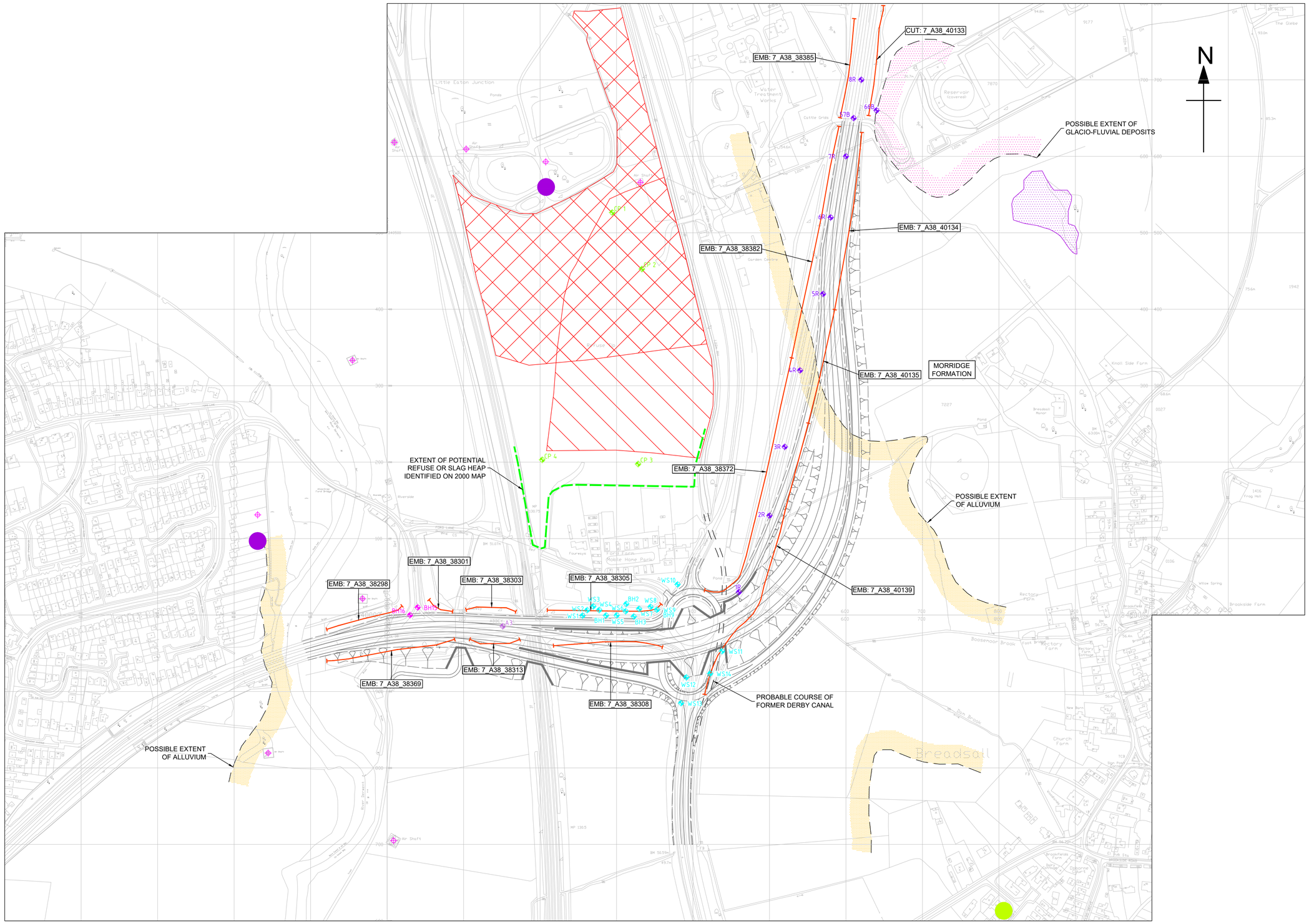
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Drawing Number

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Plot Date : 20/03/2015 3:08 PM By Gary Cooper
File Name : K:\47071637 A38 Derby Junctions\2-0 Proj Info\3-3 Dsns\CAD_Data\HA514503\URS\08-DR-GE-25.004-2F.dwg
Attached Xrefs : | A38 BASEMAP | HA514503-URS-00-ZZ-M2-CE-001-3R_ProposedAlignment | A38 Historical Earthworks | A38 Historical Ground Investigations-A DB1Va



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2. FOR EXPLORATORY HOLE LOCATIONS SEE GEOTECHNICAL CONSTRAINTS PLAN 47041319-URS-08-DR-GE-25.002-0D.
3. INDICATIVE FAULT & FORMATIONS FROM BGS MAP 125 (2014).

KEY

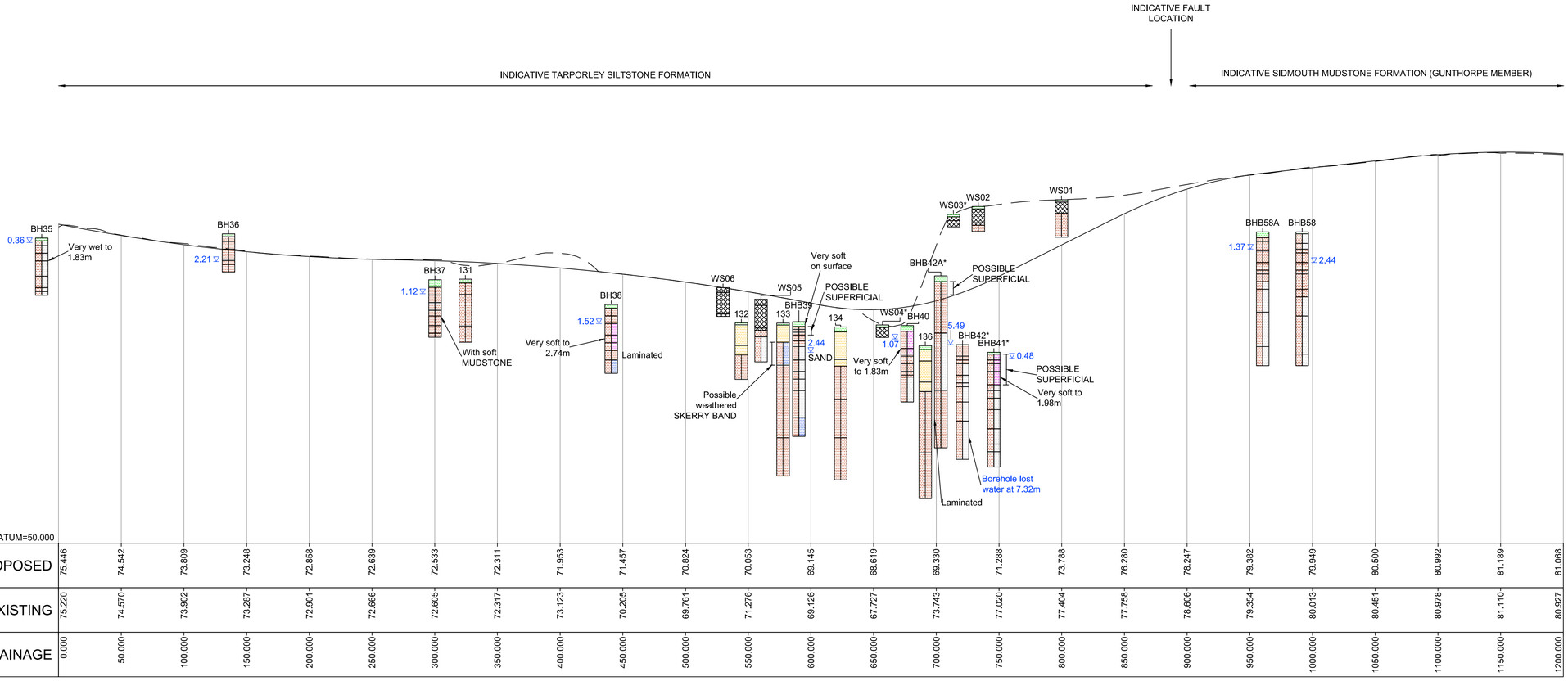
TOPSOIL
- TOPSOIL

ARTIFICIAL GROUND
- MADE GROUND

SUPERFICIAL GROUND
- ALLUVIUM

BEDROCK GEOLOGY
- MERCIA MUDSTONE GROUP
- SILT, SILTY CLAY AND / OR MARL
- CLAY AND / OR MARL
- CLAY AND / OR MARL WITH SANDSTONE
- CLAY AND / OR MARL WITH GRAVEL

* EXPLORATORY HOLES OFFSET ~100m FROM ALIGNMENT



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EXISTING	75.220	74.570	73.902	73.287	72.901	72.666	72.605	72.317	73.123	70.205	69.761	71.276	69.126	67.727	73.743	77.020	77.404	77.758	78.606	79.354	80.013	80.451	80.978	81.110	80.927
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Rev #						
2	ADDITIONAL BOREHOLE DATA ADDED					
	SDW	20/03/15	SAL	20/03/15	SAC	20/03/15
1	UPDATED TO FINAL					
	SDW	21/01/15	SAL	21/01/15	SAC	23/01/15
	Revision Details					
	Drawn By	Date	Checked By	Date	Approved By	Date
F	FINAL					

Job Title

A38 DERBY JUNCTIONS IMPROVEMENT

Drawing Title

LONG SECTION KINGSWAY JUNCTION

URS Internal Project Number		Zone / Mileage		Suitability
47071637				
Designed	Drawn	Stage 1 check	Stage 2 check	Approved
	SDW	SAL		SAC
Scale at A1		Originated		Date
1:2000(H) 1:200(V)				10/10/14

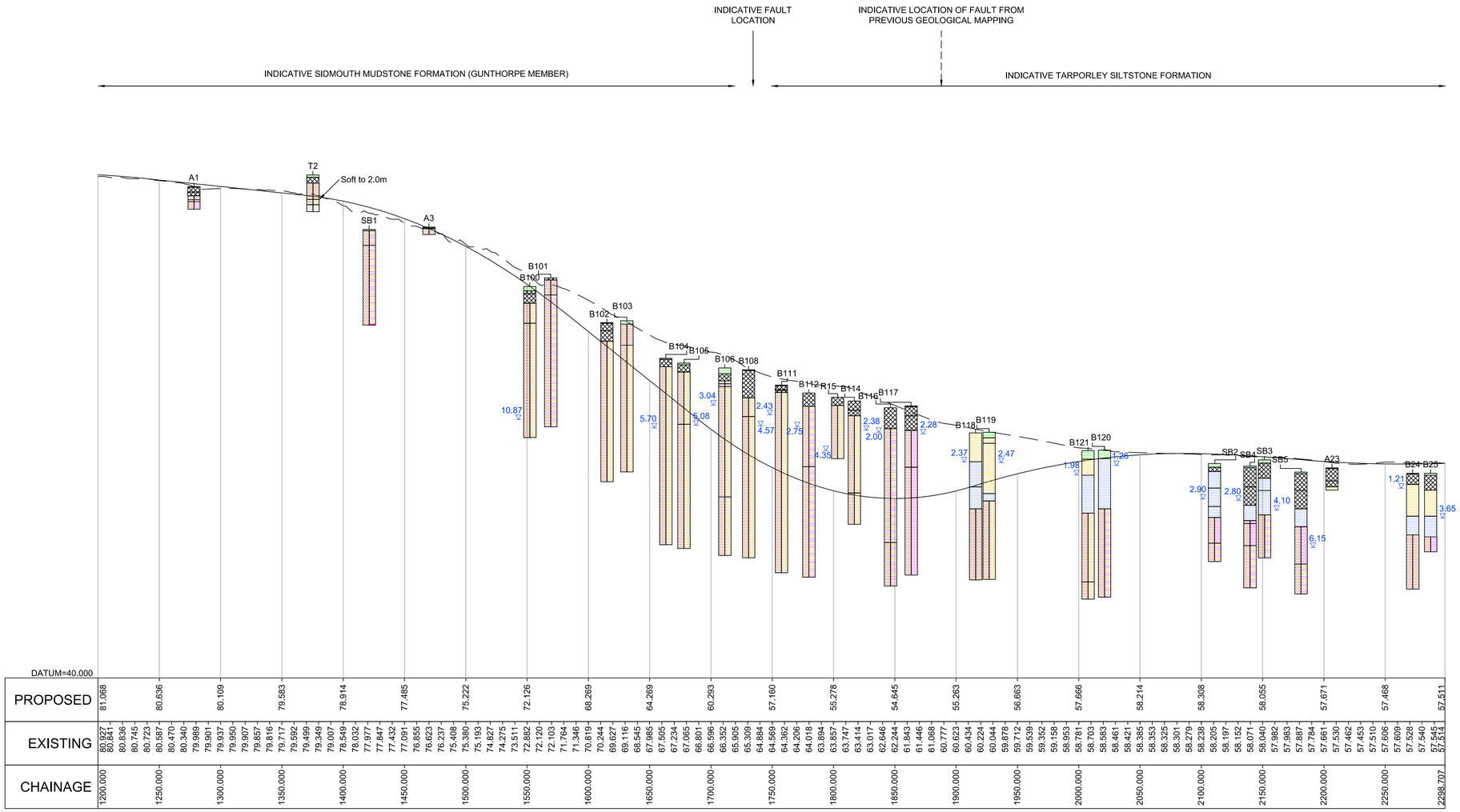
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HA514503-URS-08-DR-GE-00.005-2F

Plot Date : 20/03/2015 3:02 PM By: Gary Cooper
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Attached Xrefs :
DB1Va



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2. FOR EXPLORATORY HOLE LOCATIONS SEE GEOTECHNICAL CONSTRAINTS PLAN 47041319-URS-08-DR-GE-25.003-0D.
3. INDICATIVE FAULT & FORMATIONS FROM BGS MAP 125 (2014).

KEY

TOPSOIL
- TOPSOIL

ARTIFICIAL GROUND
- MADE GROUND

SUPERFICIAL GROUND
- ALLUVIUM
- RIVER TERRACE

BEDROCK GEOLOGY
- MERCIA MUDSTONE GROUP
- SKERRY BAND
- SILT, SILTY CLAY AND / OR MARL
- CLAY AND / OR MARL
- CLAY AND / OR MARL WITH SANDSTONE
- CLAY AND / OR MARL WITH GRAVEL

Rev #	Revision Details					
	Drawn By	Date	Checked By	Date	Approved By	Date
1	UPDATED TO FINAL					
	SDW	21/01/15	SAL	21/01/15	SAC	23/01/15
0	FIRST ISSUE					
	SDW	10/10/14	SAL	10/10/14		
F	FINAL					

Job Title

A38 DERBY JUNCTIONS IMPROVEMENT

Drawing Title

LONG SECTION MARKEATON JUNCTION

URS Internal Project Number	Zone / Mileage	Suitability
47071637		

Designed	Drawn	Stage 1 check	Stage 2 check	Approved
	SDW	SAL		SAC

Scale at A1	Originated	Date
1:2000(H) 1:200(V)		10/10/14

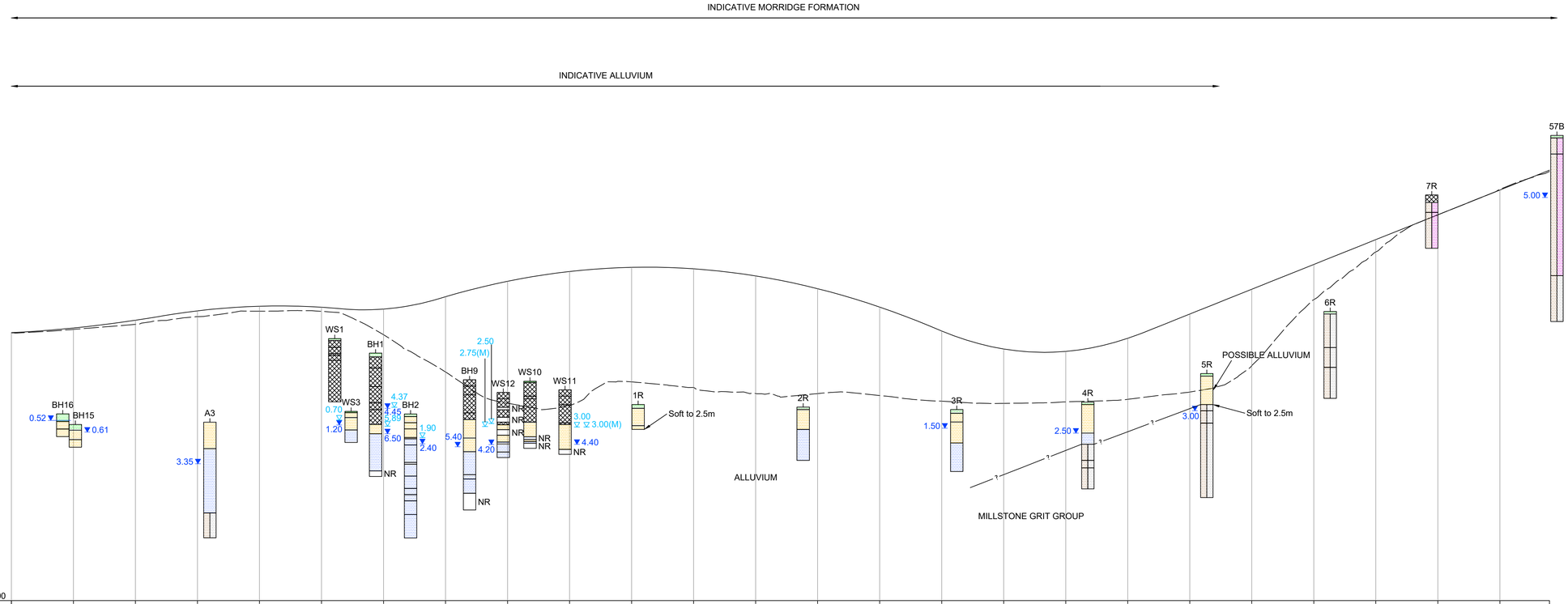
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HA514503-URS-08-DR-GE-00.006-1F

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Attached Xrefs : DB1Va



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EXISTING	56.584	56.717	57.236	57.891	58.328	58.316	56.432	53.426	50.911	50.742	52.629	52.182	51.688	51.687	51.533	51.075	50.897	51.016	51.223	51.810	53.935	59.263	63.105	66.002	68.162
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2. FOR EXPLORATORY HOLE LOCATIONS SEE GEOTECHNICAL CONSTRAINTS PLAN 47041319-URS-08-DR-GE-25.004-0D.
3. INDICATIVE FAULT & FORMATIONS FROM BGS MAP 125 (2014).

KEY

TOPSOIL
- TOPSOIL

ARTIFICIAL GROUND
- MADE GROUND

SUPERFICIAL GROUND
- ALLUVIUM (PREDOMINANTLY SILT & CLAY)
- ALLUVIUM (PREDOMINANTLY SAND & GRAVEL)

BEDROCK GEOLOGY
- MILLSTONE GRIT GROUP
- MUDSTONE
- SILTSTONE
- NR NO RECOVERY

2.50 ▼ GROUNDWATER STRIKE LEVELS
2.50 ▽ GROUNDWATER RISE LEVELS
2.50(M) ▽ GROUNDWATER MONITORED LEVELS

Rev #	Revision Details					
2	ADDITIONAL BOREHOLE DATA ADDED					
	SDW	20/03/15	SAL	20/03/15	SAC	20/03/15
F	FINAL					

Drawn By	Date	Checked By	Date	Approved By	Date

Job Title

A38
DERBY JUNCTIONS
IMPROVEMENT

Drawing Title

LONG SECTION
LITTLE EATON JUNCTION

URS Internal Project Number	Zone / Mileage	Suitability
47071637		

Designed	Drawn	Stage 1 check	Stage 2 check	Approved
	SDW	SAL		SAC

Scale at A1	Originated	Date
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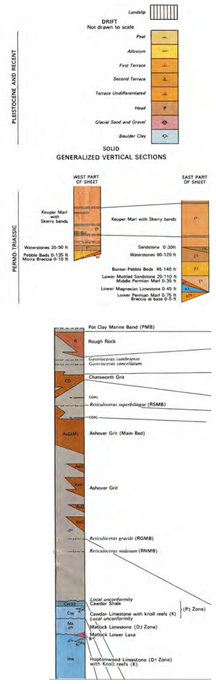
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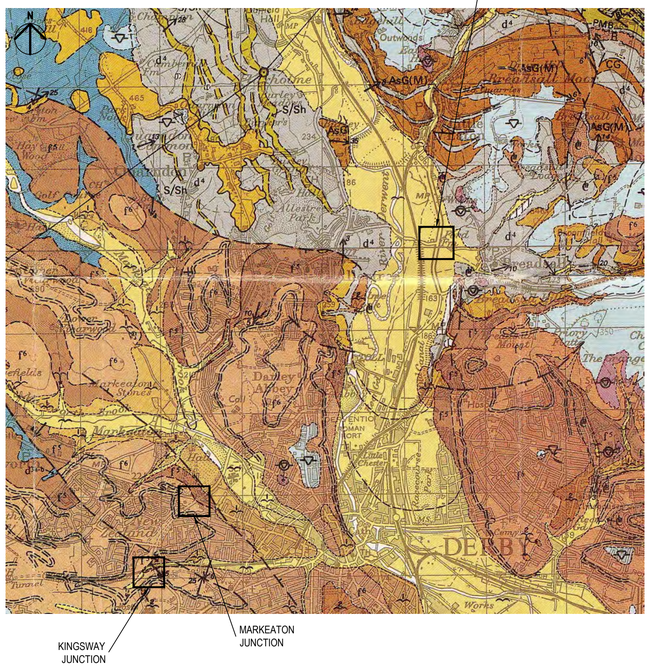
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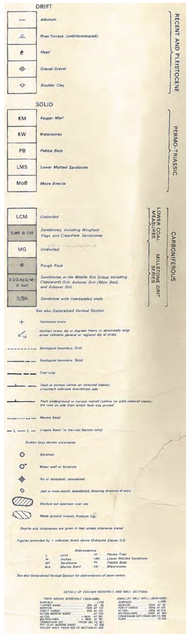
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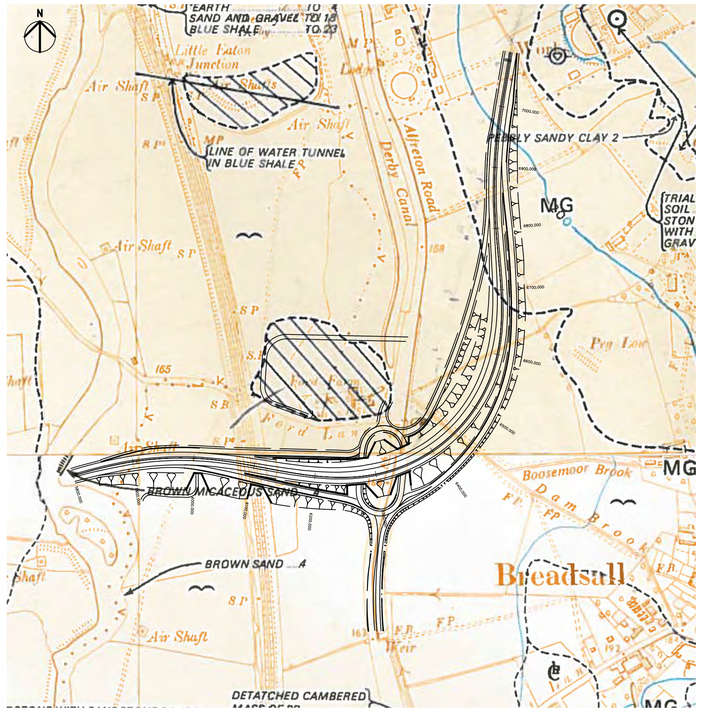
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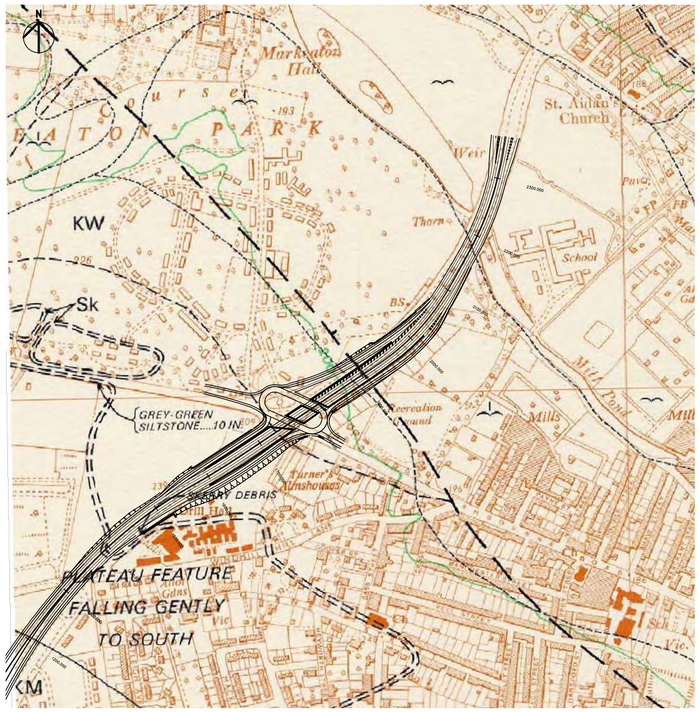


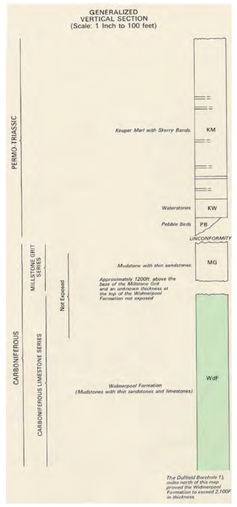
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EXTRACT FROM BRITISH GEOLOGICAL SURVEY 1:50,000 SHEET 125 (DERBY, SOLID & DRIFT)

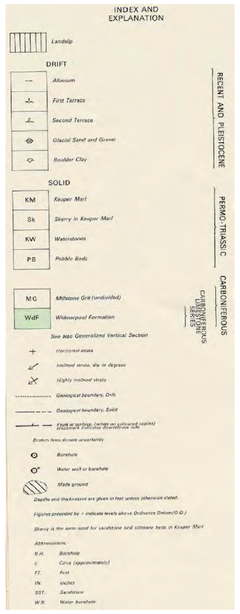


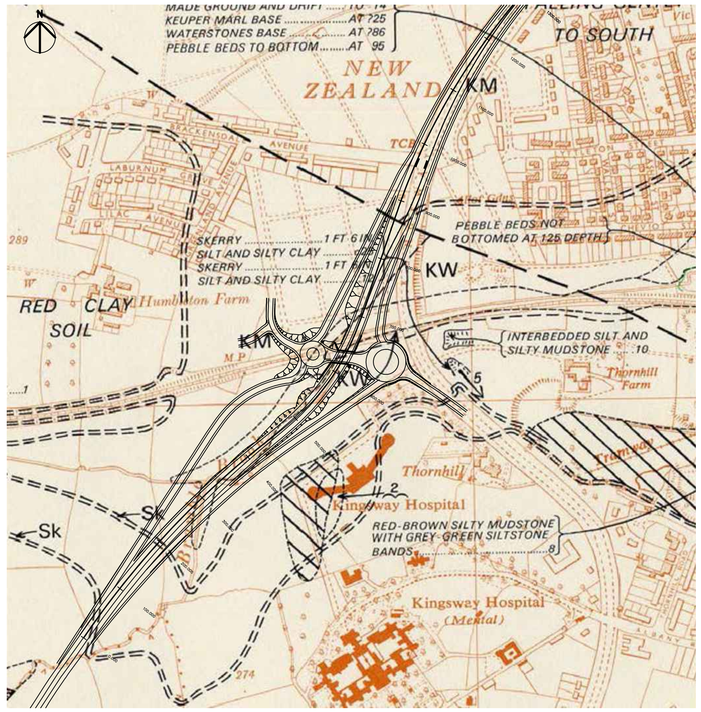


LITTLE EATON JUNCTION
EXTRACT FROM BRITISH GEOLOGICAL SURVEY 1:10,560 SHEETS SK34SE & SK33NE (DERBY, SOLID & DRIFT)









MARKEATON JUNCTION
EXTRACTS FROM BRITISH GEOLOGICAL SURVEY 1:10,560 SHEET SK33NW (DERBY, SOLID & DRIFT)

KINGSWAY JUNCTION
EXTRACTS FROM BRITISH GEOLOGICAL SURVEY 1:10,560 SHEET SK33NW (DERBY, SOLID & DRIFT)

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NOTES

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2. EXTRACT FROM BRITISH GEOLOGICAL SURVEY 1:10,560 SHEET SK33NW (DERBY, SOLID & DRIFT 1969).
3. EXTRACT FROM BRITISH GEOLOGICAL SURVEY 1:10,560 SHEET SK33NE (DERBY, SOLID & DRIFT 1969).
4. EXTRACT FROM BRITISH GEOLOGICAL SURVEY 1:10,560 SHEET SK34SE (DERBY, SOLID & DRIFT 1969).

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Rev #						
1	UPDATED TO FINAL					
	SDW	21/01/15	SAL	21/01/15	SAC	23/01/15
0	FIRST ISSUE					
	SDW	18/09/14	SAL	18/09/14		
	Revision Details					
	Drawn By	Date	Checked By	Date	Approved By	Date
F	FINAL					

Job Title

A38 DERBY JUNCTIONS IMPROVEMENT

Drawing Title

GEOLOGICAL MAP SHEETS

URS Internal Project Number		Zone / Mileage		Suitability
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Designed	Drawn	Stage 1 check	Stage 2 check	Approved
	SDW			
Scale at A1		Originated		Date
Not To Scale				

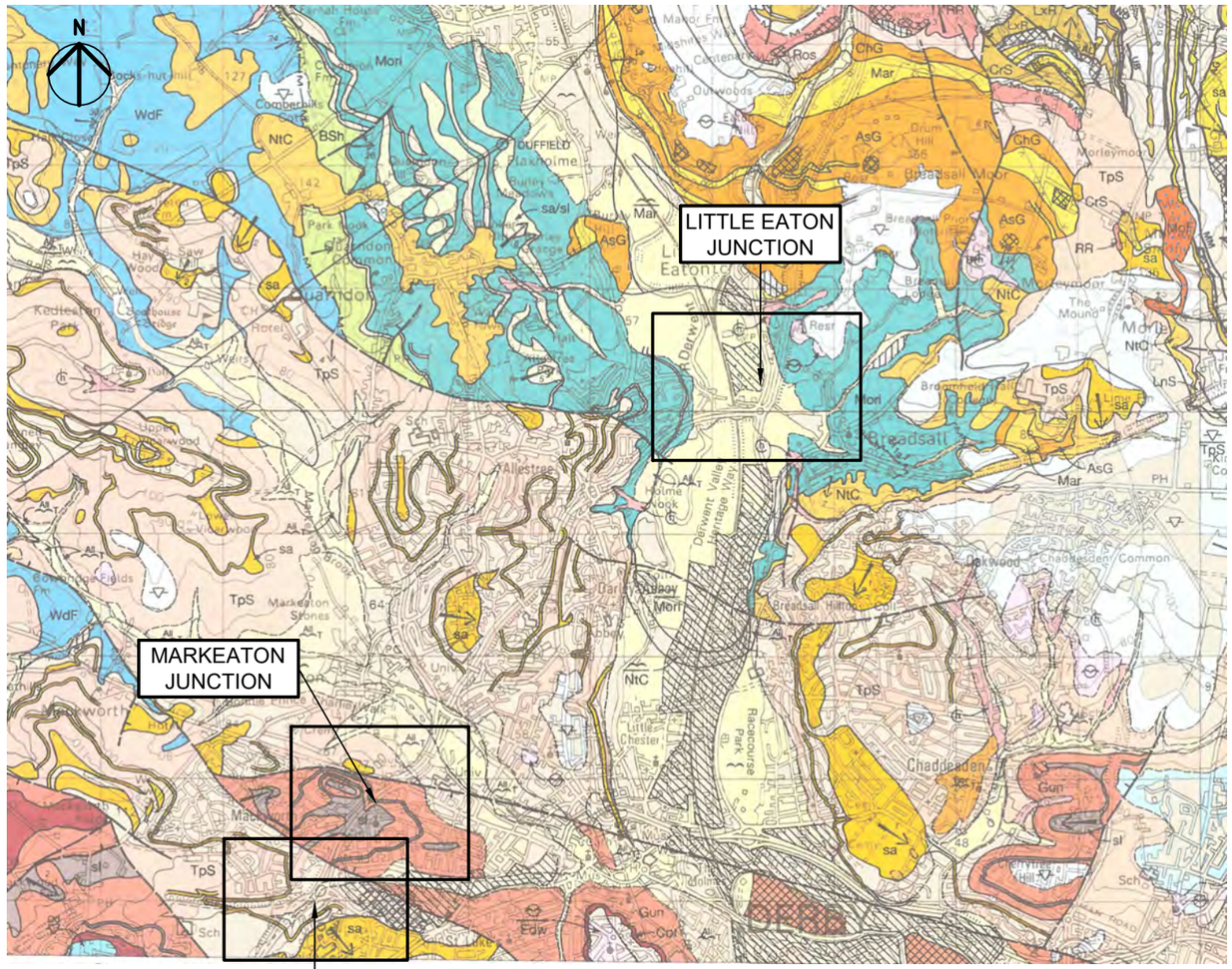
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Plot Date: 23/01/2015 1:53 PM By Simon Watson
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Attached Xrefs : [A38 MAINLINE Rev B | A38chainage v1 DB1Va



NOTES

1. EXTRACT FROM BRITISH GEOLOGICAL SURVEY 1:50,000 SHEET 125 (DERBY, SOLID & DRIFT 2014).

KEY

- MADE GROUND: MAINLY CONSTRUCTIONAL FILL, MINE AND QUARRY WASTE
- INFILLED GROUND: EXCAVATIONS, PARTLY OR WHOLLY BACKFILLED
- HEAD: MAINLY YELLOW BROWN CLAYEY SAND WITH ROCK FRAGMENTS
- ALLUVIUM
- RIVER TERRACE DEPOSITS (ALLENTON SAND & GRAVEL MEMBER)
- GLACIOFLUVIAL DEPOSITS, UNDIFFERENTIATED: SAND AND GRAVEL, BROWN TO YELLOW
- Gun — SIDMOUTH MUDSTONE FORMATION, GUNTHORPE MEMBER
- TpS — TARPORLEY SILTSTONE FORMATION
- Mori — MORRIDGE FORMATION

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UPDATED TO FINAL	SDW / SAL	21.01.15	1	
Revision Details	By / Check	Date	Suffix	

Project Title: A38 DERBY JUNCTIONS IMPROVEMENT

Highways Agency, Major Projects, The Cube, 199 Wharfside Street, Birmingham, B1 1RN — HIGHWAYS AGENCY

Drawing Title: GEOLOGY PLAN

Purpose of issue: FINAL

Drawn	Checked	Approved	Date
SDW	SAL	SAC	23/01/15

URS Internal Project No.: 47071637

Suitability:

Scale @ A3: 1:50,000

Zone / Mileage:

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Plot Date : 23/01/2015 13:58:29
File Name : K:\47071637 A38 DERBY JUNCTIONS\2-0 PROJ INFO\2-3 DOCS\CAD_DATA\HA514503-URS-08-DR-GE-00.009-1F

Appendices

Appendix A-1

Site Walkover Photographs (2014 & 2015)



PLATE 1A: A38 Southbound - Kingsway



PLATE 1B: A38 Northbound - Kingsway

Drawing Title A38 DERBY JUNCTIONS IMPROVEMENT PLATES 1A & 1B	Purpose of issue		
	Drawn SDW	Checked SAL	Approved
	Date	Scale @ A4	Rev
	Drawing Number PLATE 1		

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File Name : M:\CH_GEOTECHNICS\47071637 A38 DERBY JUNCTIONS\2-0 PROJ INFO\2-3 DOCS\CAD_DATA\PLATES KINGSWAY 1-2



PLATE 2A: A38 NORTHBOUND - KINGSWAY



PLATE 2B: A38 SOUTHBOUND - KINGSWAY

Drawing Title A38 DERBY JUNCTIONS IMPROVEMENT PLATES 2A & 2B	Purpose of issue		
	Drawn SDW	Checked SAL	Approved
	Date	Scale @ A4	Rev
	Drawing Number PLATE 2		

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File Name : M:\CH_GEOTECHNICS\47071637 A38 DERBY JUNCTIONS\2-0 PROJ INFO\2-3 DOCS\CAD_DATA\PLATES KINGSWAY 1-2



PLATE 3A: A38 Southbound - Markeaton

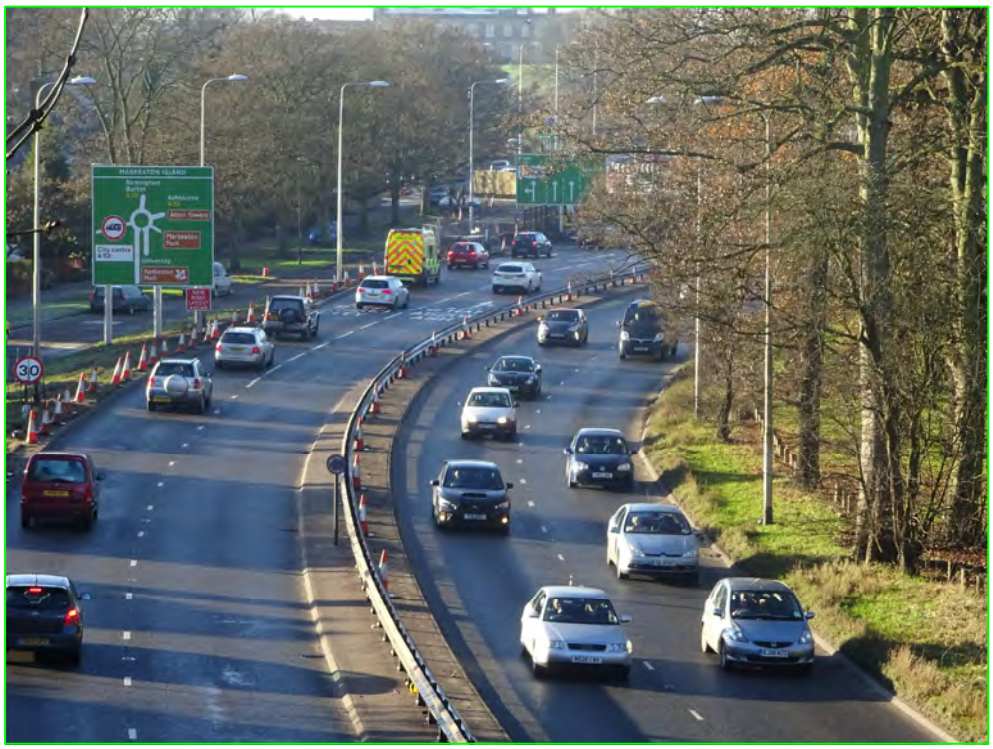


PLATE 3B: A38 Looking South - Markeaton

Drawing Title A38 DERBY JUNCTIONS IMPROVEMENT PLATES 3A & 3B	Purpose of issue		
	Drawn SAL	Checked SAC	Approved
	Date	Scale @ A4	Rev
	Drawing Number PLATE 3		

URS
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Plot Date : 23 January 2015 16:37:09
File Name : M:\CH_GEOTECHNICS\47071637 A38 DERBY JUNCTIONS\2-0 PROJ INFO\2-3 DOCS\CAD_DATA\PLATES MARKEATON 1-3



PLATE 4A: A52 Looking East - Markeaton



PLATE 4B: A38 Looking North - Markeaton

Drawing Title A38 DERBY JUNCTIONS IMPROVEMENT PLATES 4A & 4B	Purpose of issue		
	Drawn SAL	Checked SAC	Approved
	Date	Scale @ A4	Rev
	Drawing Number PLATE 4		

URS
www.ursglobal.com

Plot Date : 23 January 2015 16:37:37
File Name : M:\CH_GEOTECHNICS\47071637 A38 DERBY JUNCTIONS\2-0 PROJ INFO\2-3 DOCS\CAD_DATA\PLATES MARKEATON 1-3



PLATE 5A: A38 Northbound - Markeaton



PLATE 5B: A38 Looking North - Markeaton

Drawing Title A38 DERBY JUNCTIONS IMPROVEMENT PLATES 5A & 5B	Purpose of issue		
	Drawn SAL	Checked SAC	Approved
	Date	Scale @ A4	Rev
	Drawing Number PLATE 5		

URS
www.ursglobal.com

Plot Date : 23 January 2015 16:37:59
File Name : M:\CH_GEOTECHNICS\47071637 A38 DERBY JUNCTIONS\2-0 PROJ INFO\2-3 DOCS\CAD_DATA\PLATES MARKEATON 1-3



PLATE 6A: A61 Northbound - Little Eaton



PLATE 6B: A61 Northbound - Little Eaton

Drawing Title A38 DERBY JUNCTIONS IMPROVEMENT PLATES 6A & 6B	Purpose of issue		
	Drawn SAL	Checked SAC	Approved
	Date	Scale @ A4	Rev
	Drawing Number PLATE 6		

URS
www.ursglobal.com

Plot Date : 23 January 2015 16:35:37
File Name : K:\47071637 A38 DERBY JUNCTIONS\2-0 PROJ INFO\2-3 DOCS\CAD_DATA\PLATES LITTLE EATON 1-3



PLATE 7A: Little Eaton Roundabout



PLATE 7B: Little Eaton Roundabout

Drawing Title A38 DERBY JUNCTIONS IMPROVEMENT PLATES 7A & 7B	Purpose of issue		
	Drawn SAL	Checked SAC	Approved
	Date	Scale @ A4	Rev
	Drawing Number PLATE 7		

URS
www.ursglobal.com

Plot Date : 23 January 2015 16:35:13
File Name : K:\47071637 A38 DERBY JUNCTIONS\2-0 PROJ INFO\2-3 DOCS\CAD_DATA\PLATES LITTLE EATON 1-3



PLATE 8A: A38 Northbound - Little Eaton



PLATE 8B: A38 Looking West - Little Eaton

Drawing Title A38 DERBY JUNCTIONS IMPROVEMENT PLATES 8A & 8B	Purpose of issue		
	Drawn SAL	Checked SAC	Approved
	Date	Scale @ A4	Rev
	Drawing Number PLATE 8		

URS
www.ursglobal.com

Plot Date : 23 January 2015 16:34:48
File Name : K:\47071637 A38 DERBY JUNCTIONS\2-0 PROJ INFO\2-3 DOCS\CAD_DATA\PLATES LITTLE EATON 1-3

Appendix A-2

Site Walkover Photographs (2003)



View of roundabout from A5111 central reservation.

Drawing Title

HIGHWAYS AGENCY
A39 DERBY JUNCTIONS
KINGSWAY ROUNDABOUT

PANORAMA 1

Scale at A3: NTS		
Drawn	Approved	Revised
AAO	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson

File Name - K:



View to southwest, embankment to left and ahead is covered by dense vegetation.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
KINGSWAY ROUNDABOUT

PANORAMA 2

Scale at A3: NTS		
Drawn	Approved	Revised
AAO	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson

File Name - K:



View south over A38 to privately owned fields.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
MARKEATON ROUNDABOUT

PANORAMA 3

Scale at A3: NTS		
Drawn	Approved	Revised
AAO	SJH	
Scale at A3	Date	Date
BS	31/10/2003	

Scott Wilson

File Name - K:



View east of roundabout from A52 turn-off.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
MARKEATON ROUNDABOUT

PANORAMA 4

Scale at A3: NTS		
Drawn AAO	Approved SJH	Revised
Checked BS	Date 31/10/2003	Date

Scott Wilson

File Name - K:



View south of roundabout.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
ABBEY HILL ROUNDABOUT

PANORAMA 5

Scale at A3: NTS		
Drawn AAO	Approved SJH	Revised
Checked BS	Date 31/10/2003	Date

Scott Wilson

File Name - K:



View northeast from roundabout.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
ABBEY HILL ROUNDABOUT

PANORAMA 6

Scale at A3: NTS

Drawn	Approved	Revised
AAO	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson

File Name - K:



View southwest from roundabout. Note densely vegetated embankment to the right of the picture.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
ABBEY HILL ROUNDABOUT

PANORAMA 7

Scale at A3: NTS

Drawn	Approved	Revised
AAO	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson

File Name - K:



View northwest of grassland and footpath to the east of the roundabout, with densely vegetated embankment slope to the left of the picture.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
KINGSWAY ROUNDABOUT

PLATE 1

Scale at A4: NTS		
Drawn AO	Approved SJH	Revised
Checked BS	Date 31/10/2003	Date

Scott Wilson



View south towards the roundabout from the cenral reservation of the A38.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
KINGSWAY ROUNDABOUT

PLATE 2

Scale at A4: NTS		
Drawn AO	Approved SJH	Revised
Checked BS	Date 31/10/2003	Date

Scott Wilson



View southwest of parkland, with the roundabout raised on embankment to the left of the picture.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
KINGSWAY ROUNDABOUT

PLATE 3

Scale at A4: NTS		
Drawn AO	Approved SJH	Revised
Checked BS	Date 31/10/2003	Date

Scott Wilson



View of parkland to the northwest of the roundabout.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
KINGSWAY ROUNDABOUT

PLATE 4

Scale at A4: NTS		
Drawn AO	Approved SJH	Revised
Checked BS	Date 31/10/2003	Date

Scott Wilson



View northeast of the vegetated central reservation separating the carriageways to the west of the roundabout.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
KINGSWAY ROUNDABOUT

PLATE 5		
Scale at A4: NTS		
Drawn	Approved	Revised
BS	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson



View to southwest of A5111 joining the A38 at the roundabout.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
KINGSWAY ROUNDABOUT

PLATE 6

Scale at A4: NTS		
Drawn AO	Approved SJH	Revised
Checked BS	Date 31/10/2003	Date

Scott Wilson



View southwest over roundabout, with vegetated cut slope to the left of the picture.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
KINGSWAY ROUNDABOUT

PLATE 7

Scale at A4: NTS		
Drawn	Approved	Revised
AO	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson



View north of roundabout with densely vegetated embankment slopes.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
KINGSWAY ROUNDABOUT

PLATE 8		
Scale at A4: NTS		
Drawn BS	Approved SJH	Revised
Checked BS	Date 31/10/2003	Date

Scott Wilson



View northeast along A38 towards the roundabout.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
MARKEATON ROUNDABOUT

PLATE 9

Scale at A4: NTS		
Drawn AO	Approved SJH	Revised
Checked BS	Date 31/10/2003	Date

Scott Wilson



View southeast of service station and roundabout.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
MARKEATON ROUNDABOUT

PLATE 10

Scale at A4: NTS		
Drawn	Approved	Revised
AO	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson



View east of the residential access road and vegetated vergesides running parallel to the southbound A38.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
MARKEATON ROUNDABOUT

PLATE 11

Scale at A4: NTS		
Drawn	Approved	Revised
BS	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson



View east of the residential access road and vegetated vergesides running parallel to the southbound A38.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
MARKEATON ROUNDABOUT

PLATE 12

Scale at A4: NTS		
Drawn	Approved	Revised
BS	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson



View southwest along the residential access road parallel to the southbound A38.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
MARKEATON ROUNDABOUT

PLATE 13

Scale at A4: NTS		
Drawn	Approved	Revised
AO	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson



View north over area of hummocky grassland.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
ABBEY HILL ROUNDABOUT

PLATE 14		
Scale at A4: NTS		
Drawn	Approved	Revised
BS	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson



View southwest over fields and A61 southbound immediately south of Abbey Hill roundabout.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
ABBEY HILL ROUNDABOUT

PLATE 15		
Scale at A4: NTS		
Drawn	Approved	Revised
BS	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson



General view over railway line and fields to south of A38

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
ABBEY HILL ROUNDABOUT

PLATE 16		
Scale at A4: NTS		
Drawn	Approved	Revised
BS	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson



General view over River Derwent and fields to the south of the A38.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
ABBEY HILL ROUNDABOUT

PLATE 17		
Scale at A4: NTS		
Drawn	Approved	Revised
BS	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson



View of A38 approaching the roundabout from the north.

Drawing Title

HIGHWAYS AGENCY
A38 DERBY JUNCTIONS
ABBEY HILL ROUNDABOUT

PLATE 18

Scale at A4: NTS		
Drawn	Approved	Revised
BS	SJH	
Checked	Date	Date
BS	31/10/2003	

Scott Wilson

Appendix B

Little Eaton Economy Scheme Photographs (2014)



Gabion Wall Construction Photograph 1



Gabion Wall Construction Photograph 2



Gabion Wall Construction Photograph 3



Gabion Wall Construction Photograph 4



Gabion Wall Construction Photograph 5

Appendix C-1

Exploratory Hole Logs – Kingsway

SK 33 NW 3236, 3560 182

British Geological Survey

DERBYSHIRE COUNTY COUNCIL BRIDGES AND HIGHWAYS DEPARTMENT

TEST BORING REPORT.

Site. Mickleover Link. Chainage. 51+09 m.

Bore No. 35. Natural Ground Level. 243·9 ft. A.O.D.

Date of boring. 27-6-67. Water Level. ft. A.O.D.

Remarks. Water level 1'-2" below ground level.

Very wet conditions down to 6'-0".

Thickness ft	Thickness ins	Depth ft	Depth ins	M/C NAT	Casagrande Classification LL	PI	Grn	CBR	Angle of Internal Friction	Cohesion lbs/sq ft	Density lbs/cu ft Bulk	Density lbs/cu ft Dry	Description and Remarks
	9		9										Top Soil
		2	0	55									Clay (Marl) with bands of sandstone
		4	0	38									- do -
		6	0	15	40	18	CI		= 9°	2738	140	121	- do -
		10	0	55									- do -
		13	0	18					= 8°	3170	138	117	- do -
		14	0	19									- do -
14	3	15	0	20									- do -

18/09/2014

SK 33 NW 3246, 3571 183

British Geological Survey

DERBYSHIRE COUNTY COUNCIL BRIDGES AND HIGHWAYS DEPARTMENT.

TEST BORING REPORT.

Site. Micklecover Link . . . . . Chainage. 52455m

Bore No. 36 . . . . . Natural Ground Level. 245 ± ft. A.O.D.

Date of boring. 27-6-67 . . . . . Water Level. . . . . ft. A.O.D.

Remarks. Water Level 7'-3" below ground level . . . . . .

. Surface conditions wet. . . . . .

Thickness ft	Thickness ins	Depth ft	Depth ins	M/C Nat	Casagrande Classification LL	PI	Chn	C B R	Angle Internal Friction	Cohesion lbs. sq. ft.	Density lbs. cu ft Bulk	Density lbs. cu ft Dry	Description and Remarks
	9		9										Top Soil
		2	0	31									Clay (Marl)
		4	0	23									-do-
		7	0	16	36	15	CI		∠ 13°	1584	132	114	-do-
		8	0	15							130	112	-do-
9	3	10	0	18									-do-

SK 33 NW 3257, 3583 184

British Geological Survey

DERBYSHIRE COUNTY COUNCIL BRIDGES AND HIGHWAYS DEPARTMENT.

TEST BORING REPORT.

Site. Mickleover Link . . . . . Chainage. 54+11m

Bore No. 37 . . . . . Natural Ground Level 233.2 ft. A.O.D.

Date of boring. 28-6-67 . . . . . Water Level. . . . . ft. A.O.D.

Remarks. Water level 3'-8" below ground level . . . . . .

. Weather Fine . . . . . .

. . . . . .

Thickness ft	Thickness ins	Depth ft	Depth ins	M/C Nat	Casagrande Classification LL	PI	Chk	C B R	Angle of Internal Friction	Cohesion lbs/sq ft	Density lbs/cu ft Bulk	Density lbs/cu ft Dry	Description and Remarks
2	0	2	0	22									Top Soil and Sandy Soil
		4	0	22									Clay (Marl)
		6	0	21	38	18	CI						-do-
		8	0	19									-do-
1	6	9	6	20					~ 3°	1008	131	109	-do-
		10	0	21									-do- with soft limestones
2	6	12	0	44									-do-
		14	0	21							134	112	Clay (Marl)
3	0	15	0	22									-do-

SK 33 NW 3266, 3594 185

DERBYSHIRE COUNTY COUNCIL BRIDGES AND HIGHWAYS DEPARTMENT

TEST BORING REPORT.

Site. Mickleover Link Chainage. 55+64m

Bore No. 38 Natural Ground Level 226 6ft. A.O.D

Date of boring. 16-17.2.67 Water Level. 5' BGL ft A.O.D

Remarks. Very soft soil down to 9'-0".

Thickness ft	Thickness ins	Depth ft	Depth ins	M.C Nat	Casagrande Classification LL	Casagrande Classification PI	Casagrande Classification Chm	C B R	Angle Internal Friction	Cohesion lbs/sq ft	Density lbs/cu ft Bulk	Density lbs/cu ft Dry	Description and Remarks
1	0	1	0										Top Soil
		3	0	36	67	37	CH						Clay (Marl)
		5	0						∠ 3°	865	120	90	-do-
		8	0	56	49	11	MI OI						Silty Clay
		10	0	12									-do-
11	0	12	0	17									-do-
2	6	14	6										Clay (Marl) laminated
3	6	18	0										Clay (Marl) with some small stones

SK 33 NW 3274, 3606 172

DERBYSHIRE COUNTY COUNCIL BRIDGES AND HIGHWAYS DEPARTMENT

TEST BORING REPORT.

Site. MICKLEOVER LINK . . . . . Chainage. 57+28m.

Bore No. B 39. . . . . Natural Ground Level. 222·0 ft. A.O.D.

Date of boring. 15-16.2.67 . . . . . Water Level. 3' BGL . . . ft. A.O.D

Remarks. . VERY SOFT ON SURFACE. WATER STRUCK AT 8'-0". . . . . .

THICKNESS ft	THICKNESS ins	DEPTH ft	DEPTH ins	M/C NAT	CASSAGRANDE CLASSIFICATION LL	PI	Chn	C B R	ANGLE INTERNAL FRICTION	COHESION lbs sq. ft.	DENSITY lbs c. ft. BULK	DENSITY lbs c. ft. DRY	DESCRIPTION AND REMARKS.
1	3	1	3										TOP SOIL
		2	0	36	83	52	CH				117	86	CLAY
		2	9	28	52	32	CH				121	95	-do-
2	3	3	6	23									-do-
		5	0	17					⌀ 6°	720	135	116	CLAY (MARL) SPT 13
3	0	6	6	20									-do-
3	6	10	0	20									SAND SPT 56
		13	0	21	27	3	ML						CLAY (MARL) WITH SANDSTONE
5	0	15	0	11					⌀ 20°	865	135	121	-do- SPT 93
3	0	18	0	15									-do-
7	0	25	0										-do-
5	0	30	0										CLAY (MARL) AND GRAVEL

SK 33 NW

3277, 3614

DERBYSHIRE COUNTY COUNCIL BRIDGES AND HIGHWAYS DEPARTME

TEST BORING REPORT.

Site. Mickleover Link. . . . . Chainage. 58+10m.

Bore No. 40. . . . . Natural Ground Level. 221.0 ft. A.C

Date of boring. 30-31. 1. 67. . . . . Water Level. 3'-6" BGL. . ft. A.C

Remarks. North of Railway

. Ground at surface very wet soil, very soft down to 6'-0".

Thickness ft	Thickness ins	Depth ft	Depth ins	M/C NAT	Casagrande Classification LL	PI	Chm	CBR	Angle Internal Friction	Cohesion lbs sq ft	Density lbs cu ft Bulk	Density lbs cu ft Dry	Description and Remarks
1	6	1	6										Top Soil
		6	0	52									Silt and Marl
6	0	7	6		72	35	MH CH						-do-
		8	0	16									Clay (Marl)
		10	0	20	34	15	CL		ϕ 3°	865	134	111	-do- SPT 44 Blows
		12	0	20	35	10	CL		ϕ 15°	720	137	115	-do- SPT 103 Blows.
		13	0	20									-do-
6	0	13	6										-do-
		20	0	20									Soft Sandstone and Marl.

SK 33 NW 3295, 3614 173

DERBYSHIRE COUNTY COUNCIL BRIDGES AND HIGHWAYS DEPARTMENT.

TEST BORING REPORT.

Site. MICKLEOVER LINK . . . . . Chainage. 58+93m.

Bore No. B41 . . . . . Natural Ground Level 214.9 ft. A.O.D

Date of boring. 7-8-2-67 . . . . . Water Level. 18" BGL . . ft. A.O.D.

Remarks. VERY SOFT DOWN TO 6'-6" . . . . . .

THICKNESS ft	THICKNESS ins	DEPTH ft	DEPTH ins	M.C NAT	CASSAGRANDE CLASSIFICATION LL	PI	Chn	C B R	ANGLE INTERNAL FRICTION	COHESION lbs/sq. ft	DENSITY lbs cu ft BULK	DENSITY lbs cu ft DRY	DESCRIPTION AND REMARKS
	6		6										TOP SOIL
		2	0	37									CLAY & SILT
		3	0	47					∠ 1°	216	104	71	-do-
		5	0	35	62	34	CH						-do-
8	0	8	6										-do-
		10	0	16					∠ 9°	1554	133	114	CLAY (MARL) & SANDSTONE SPT 150 BLOWS
		12	0		33	13	CL						-do-
		15	0	10									-do- SPT 50 BLOWS FOR 3"
		20	0	10							147	133	-do-
		24	0		29	12	CL						-do-
		26	0	14									-do-
21	6	30	0	8							149	138	-do-

SK 33 NW

3296, 3611

DERBYSHIRE COUNTY COUNCIL BRIDGES AND HIGHWAYS DEPARTMENT.

TEST BORING REPORT.

Site. MICKLEOVER LINK . . . . . Chainage. 58+70m.

Bore No. B 42 . . . . . Natural Ground Level. 216.8 ft. A.O.D.

Date of boring. 9-10-2-67 . . . . . Water Level. . . . . ft. A.O.D.

Remarks. BOREHOLE LOST WATER AT 24'-0" . . . . . .

THICKNESS ft	THICKNESS ins	DEPTH ft	DEPTH ins	M C NAT	CASAGRANDE CLASSIFICATION LL	PI	Chm	C B R	ANGLE INTERNAL FRICTION	COHESION lbs sq. ft.	DENSITY lbs cu ft Bulk	Dry	DESCRIPTION AND REMARKS
		3	0		31	12	CL						
		4	0	15									CLAY (MARL)
5	0	5	0								130	118	-do-
													-do- SPT 142 BLOWS.
		8	0	17									
											139	119	CLAY (MARL) WITH SANDSTONE LAYERS
		10	0										
		11	0	17									-do- SPT 103 BLOWS FOR 6"
											139	119	-do-
		15	0	15	33	12	CL				141	123	SPT -do- 113 BLOWS FOR 5"
		20	0	12	28	8	CL						-do-
		30	0	13									-do-

SK 33 NW 3290, 3610 175

DERBYSHIRE COUNTY COUNCIL BRIDGES AND HIGHWAYS DEPARTMENT

TEST BORING REPORT

Site MICKLEOVER LINK. A38 - A5111 . . . . . Chainage 58+33m KINGSWAY ROUNDABOUT.

Bore No. . . . B42A. . . . . Natural Ground Level 234.09 ft. A.O.D.

Date of boring. 5th. Nov. 1968. . . . Water Level. 18. . . . ft. ~~A.O.D~~ B.G.L.

Remarks. S.P.T. AT 10'-0", 15'-0", 20'-0", 25'-6", 30'-0" SEE SCHEDULE.

. . CONSOLIDATION. TEST. AT 14'-6". SEE SCHEDULE. . . .

. . . . . .

BRIDGE No 10 - NEAR N. ABUTMENT.

THICKNESS ft	THICKNESS ins	DEPTH ft	DEPTH ins	M/C NAT	CASSAGRANDE CLASSIFICATION LL	PI	Clsn.	CBR	ANGLE INTERNAL FRICTION	COHESION lbs. sq ft.	DENSITY lbs. cuft BULK	DENSITY lbs. cuft DRY	DESCRIPTION AND REMARKS
1	6	1	6										TOP SOIL.
		2	6	28·8	30	8	CL				129·3 U	100·4 U	CLAY
3	6	5	0	28·3				8 R			130·9 R	102·0 R	"
		8	6	21·3									SANDY CLAY (MARL)
		10	6	14·1					31° U	1080 U	134·7 U	118·1 U	U4. "
		13	0	17·9	30	13	CL						"
10	0	15	0	16·4					19° U	632 U	128·7 U	110·5 U	U4. "
		18	6	15·3									CLAY (MARL) WITH OCCASIONAL SANDSTONE & SANDY SILT.
		20	0	18·1					18° U	907 U	135·4 U	114·7 U	U4. "
		21	6	15·4									"
		24	0	15·8	27	5	ML/CL						"
		25	6	17·7							136·5 U	116·0 U	"
		26	6	17·8									"
15	0	30	0	16·1							136·0 U	117·2 U	HARD LAMINATED MARL
		31	6	14·8									"
		35	0	16·0	27	10	CL				139·4 U	120·2 U	"
		40	0	16·9					7° U	3528 U	138·0 U	118·2 U	U4. "
		43	0	17·6	25	10	CL				136·7 U	116·3 U	"
15	0	45	0	20·4									

SK 33 NW 3292, 3641 177.

DERBYSHIRE COUNTY COUNCIL BRIDGES AND HIGHWAYS DEPARTMENT

TEST BORING REPORT.

Site. MICKLEOVER LINK . . . . . Chainage. 61+19m.

Bore No. BS8 . . . . . Natural Ground Level 245 ft. A.O.D.

Date of boring. 6-7-2-67 . . . . . Water Level. 10' BGL . . ft. A.O.D.

Remarks. WATER STRUCK AT 8'-9".

THICKNESS ft	THICKNESS ins	DEPTH ft	DEPTH ins	M/C NAT	CASAGRANDE CLASSIFICATION LL	PI	Grm	C B R	ANGLE INTERNAL FRICTION	COHESION lbs/sq ft	DENSITY lbs cu ft WET	DRY	DESCRIPTION AND REMARKS
	6		6										TOP SOIL
		3	0	20	38	17	CI	3"			130	108	CLAY MARL & SANDSTONE
4	0	4	6	24									-do-
		5	6	19				7"			133	112	CLAY MARL
		8	0	21									-do-
		10	0	16					u 26°	2045	134	116	SPT 65 BLOWS -do-
		11	0	14	34	14	CL	16"	u 26°	2045	134	119	-do-
		15	0	15					u 21°	1944	136	118	SPT 40 BLOWS FOR 1" -do-
13	0	17	0	15									-do-
		22	0	15									CLAY MARL & SANDSTONE
		32	0	25	31	11	CL						-do-
17	6	35	0	15									-do-

SK 33 NW 3291, 3638 176.

DERBYSHIRE COUNTY COUNCIL — BRIDGES AND HIGHWAYS DEPARTMENT

TEST BORING REPORT.

Site. MICKLEOVER LINK. Chainage. 60+90m.

Bore No. B 58A. Natural Ground Level 245.5 ft A.O.D.

Date of boring. 2.-3, 2. 67. Water Level. 11' BGL. ft. A.O.D.

Remarks. WATER STRUCK AT 4'-6"

THICKNESS ft	THICKNESS ins	DEPTH ft	DEPTH ins	M/C NAT	CASSAGRANDE CLASSIFICATION LL	CASSAGRANDE CLASSIFICATION PI	CASSAGRANDE CLASSIFICATION Chn	C B R	ANGLE INTERNAL FRICTION	COHESION lbs sq. ft.	DENSITY lbs cu. ft. Bulk	DENSITY lbs cu. ft. Dry	DESCRIPTION AND REMARKS
1	6	1	6										TOP SOIL
		2	6	19	39	18	CI						CLAY (MARL)
		5	0	16				5/7	U		133	115	- do -
		8	0	15	36	15	CI		U 19°	4320	136	119	- do -
		10	0										SPT 195 BLOWS
		11	0	17	42	21	CI	6"			129	109	CLAY (MARL)
11	6	13	0										- do -
		15	0	14					U 14°	720	121	106	SPT 156 BLOWS SOFT SANDSTONE & MARL.
		21	0	14									- do -
		30	0	27									- do -
		35	0	27									- do -

British Geological Survey

Scott Wilson

Telephone:
Fax:

WINDOW SAMPLE LOG

Project				WINDOW SAMPLE No
Kingsway Roundabout Contamination Assessment				**WS1**
Job No	Date 10-03-05 10-03-05	Ground Level (m)	Co-Ordinates ()	
Contractor				Sheet
Highways Agency				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						0.20	MADE GROUND. Turfed grey to brown topsoil.		
0.60-0.80	D					(0.90)	MADE GROUND. Soft red slightly sandy clay containing much brick and ash fragments.		
						1.10			
1.30-1.50	D						Stiff friable red slightly mottled grey CLAY with mudstone fragments which increase to gravel size after 2 meters.		
1.80-2.00	D					(1.90)			
2.50-2.70	D								
						3.00			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	

All dimensions in metres Scale 1:34.375	Client	Method/ Plant Used	Logged By

Scott Wilson

Telephone:
Fax:

WINDOW SAMPLE LOG

Project				WINDOW SAMPLE No
Kingsway Roundabout Contamination Assessment				**WS2**
Job No	Date 10-03-05 10-03-05	Ground Level (m)	Co-Ordinates ()	
Contractor				Sheet
Highways Agency				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.00-0.20	D					0.20	MADE GROUND. Turfed grey to brown topsoil.		
0.50-0.70	D					(1.10) 1.30	MADE GROUND. Firm to stiff red mottled grey clay with much brick and ash fragments.		
1.30-1.50	D					1.50	MADE GROUND. Dense black ash with brick fragments.		
1.80-2.00	D					(0.50) 2.00	Very stiff friable red CLAY with mudstone lithorelics and fragments.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	

All dimensions in metres Scale 1:34.375	Client	Method/ Plant Used	Logged By

Scott Wilson

Telephone:
Fax:

WINDOW SAMPLE LOG

Project				WINDOW SAMPLE No
Kingsway Roundabout Contamination Assessment				**WS3**
Job No	Date 10-03-05 10-03-05	Ground Level (m)	Co-Ordinates ()	
Contractor				Sheet
Highways Agency				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.00-0.20	D					0.20	MADE GROUND. Turfed grey to brown topsoil.		
0.40-0.60	D					(0.30) 0.50	MADE GROUND. Stiff red clay with much ash and brick fragments.		
0.80-1.00	D					(0.50) 1.00	MADE GROUND. Hardstanding containing granite fragments, ash and tar. Possible old road surface. Hydrocarbon odour.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	Machine refusal at 1 m due to asphalt road surface

All dimensions in metres Scale 1:34.375	Client	Method/ Plant Used	Logged By

Scott Wilson

Telephone:
Fax:

WINDOW SAMPLE LOG

Project				WINDOW SAMPLE No
Kingsway Roundabout Contamination Assessment				**WS4**
Job No	Date 10-03-05 10-03-05	Ground Level (m)	Co-Ordinates ()	
Contractor				Sheet
Highways Agency				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.00-0.20	D					0.20	MADE GROUND. Turfed grey to brown topsoil.		
0.40-0.60	D					(0.30) 0.50	MADE GROUND. Stiff red clay with much ash and brick fragments.		
0.80-1.00	D					(0.50) 1.00	MADE GROUND. Hardstanding containing granite fragments, ash and tar. Possible old road surface. Hydrocarbon odour.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	Machine refusal at 1 m due to asphalt road surface

All dimensions in metres Scale 1:34.375	Client	Method/ Plant Used	Logged By

Scott Wilson

Telephone:
Fax:

WINDOW SAMPLE LOG

Project				WINDOW SAMPLE No
Kingsway Roundabout Contamination Assessment				**WS5**
Job No	Date 10-03-05 10-03-05	Ground Level (m)	Co-Ordinates ()	
Contractor				Sheet
Highways Agency				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.00-0.20	D					(0.50) 0.50	MADE GROUND. Turfed grey to brown topsoil with much brick and ash.		
0.70-0.90	D						MADE GROUND. Reworked firm to stiff red clay containing much brick, ash and sand.		
1.20-1.50	D					(1.80)			
1.80-2.00	D					2.30			
						2.50	MADE GROUND. Dense black ash and stone. Possible old road.		
2.50-2.70	D					(0.50) 3.00	Very stiff red CLAY with mudstone bands.		
3.40-3.70	D				× × ×

Scott Wilson

Telephone:
Fax:

WINDOW SAMPLE LOG

Project				WINDOW SAMPLE No
Kingsway Roundabout Contamination Assessment				**WS6**
Job No	Date 10-03-05 10-03-05	Ground Level (m)	Co-Ordinates ()	
Contractor				Sheet
Highways Agency				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
0.00-0.20	D					(0.40) 0.40	MADE GROUND. Turfed grey to brown topsoil with much brick and ash.		
0.60-0.90	D					(1.70) 2.10	MADE GROUND. Reworked firm to stiff red clay containing much brick, ash and sand.		
2.10-2.30	D					2.30	MADE GROUND. Dense black ash and stone, tarmac.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	

All dimensions in metres Scale 1:34.375	Client	Method/ Plant Used	Logged By

GEO — RESEARCH LTD. B/H. No. 129

CONTRACT. EXETER LEEDS TRUNK ROAD, A.38
LOCATION. MICKLEOVER BY-PASS AND LINK ROAD

SHEET No. 1
No. of sheets. 1

CLIENT. MINISTRY OF TRANSPORT (M.R.C.U.)

PERCUSSION U D S.P.T. B — Casing. Size 6" to. Size 10'0" to.

ROTARY Cored runs O/H

Ground level. 77.262m
Chainage 50 + 69

Commenced. 29/11/69
Completed. 29/11/69

Weather. DRY/FROSTY

STRATUM (Scale: ¼ inch to 1 foot) 1 Thickness	Depth 2	Sample No. 3	S.P.T. Blow Count (N) LL/PL/PI 4	M.C. % Core Rec. % 6	Type of Test 7	GRADING % PASSING SIEVE 3" N.7	1½" 25	¾" 52	3/8" 100	7/16" 200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f.	Dev. Stress p.s.i.	Lat. U.C.T. Pres. Stren. p.s.i. p.s.f. Shear/L° p.s.f.	WATER REMARKS 10
Dark brown top soil. 1'0"	1'0"													
Firm sandy brown clay becoming marly at times 1'6"	2'0" 2'6"	D1	(60)											
Stiff weathered red/grey marl becoming clayey at times.		U1	54.18.36 (CH)	25.7	TAQ						119.8	23.8	20	
				26.4							118.2	26.6	40	
	4'0"	D2		25.6							118.8	30.4	60	
													1944/0°	
			(70)										1440/4	
	5'0"	U2	42.20.22 (CI)	22.3	TAQ						124.9	27.2	20	
				20.0							123.8	28.2	40	
				20.6							117.3	27.2	60	
5'0"	7'0"	M1											1987/0°	
	7'6"		(109)											
Very stiff weathered red/grey marl becoming clayey at times.		U3	39.21.18 (CI)	21.8	TAQ						123.4	31.7	20	
				21.2							126.3	50.4	40	
				-							-	67.5	60	
	9'6"	M2											3586/0°	
			(135)		SO_3W	12.3	pH 7.5						576/18	
	10'0"	U4	34.17.17 (CL)	15.5	TAQ						128.5	56.7	20	
4'0"	11'6"			12.2							132.8	104.9	40	
Soft weathered red/grey marl becoming clayey at times.	12'0"	M3		-							-	142.0	60	
	12'6"	U5*	(124) 28.17.11 (CL)										7286/0° 576/30	WS @ 12'6" SWL 10'0" W1, 10'0"
2'6"	14'0"													
Stiff weathered red/grey marl becoming clayey at times.	14'6" 15'0"	M4 U6	(139) 36.20.16 (CI)	14.4							Unable to prepare due to friability of sample			
2'6"	16'6"													OCB @ 16'6" CAS @ 10'0" SWL 16'6" BH Back-filled as casing withdrawn.
			BOREHOLE		COMPLETED									

REMARKS:

* U5 TAQ result.

23.3	126.4	6.3	20
23.9	124.1	6.6	40
25.4	120.6	14.7	60
			662/0°

Sample	Depth	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (cone)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
So_3S. — Sulphate analysis on soil.
SO_3W. — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
OED. — Oedometer.

For other symbols used see overleaf.

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GEO — RESEARCH LTD. B/H. No. 130

CONTRACT. EXETER LEEDS TRUNK ROAD, A.38
LOCATION. MICKLEOVER BY-PASS AND LINK ROAD

SHEET No. 1
No. of sheets. 1

CLIENT.
MINISTRY OF TRANSPORT
(M.R.C.U.)

PERCUSSION U D S.P.T. B
ROTARY Cored runs O/H
LEGEND

Casing. Size 6" to 10'0" Size to.

Ground level. 71.078m
Chainage. 54 + 30
Commenced. 2/12/69
Completed. 2/12/69

Weather. SHOWERY

STRATUM (Scale: ½ inch to 1 foot) 1 Thickness	Depth 2	Sample No. 3	S.P.T. Blow Count (N) LL/PL/PI 4	M.C. % Core Rec. % 6	Type of Test 7	GRADING % PASSING SIEVE 3" N.7 / 1½" 25 / ¾" 52 / ⅜" 100 / #7/16" 200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f.	Dev. Stress p.s.i.	Lat. Pres. p.s.i. U.C.T. Stren. p.s.f. Shear/L° p.s.f.	WATER REMARKS 10
Dark brown top soil. 1'0"	1'0"									
Firm sandy brown clay.		D1	37.17.20 (CI) (74)							
	2'6"	U1	42.19.23 (CI)							
3'10"	4'0"									
Stiff brown/green clay becoming marly in parts.	4'6"	D2								
	5'0"	U2	(83) 52.18.34 (CH)	17.5	TAQ		127.0	29.4	20	
				17.6			126.9	31.8	40	
2'3"	6'3"			17.4			128.2	36.3	60	
Firm weathered brown and green marl becoming clayey in parts.	7'0"	M1			SO3W	40.5 pH 7.5			2347/0°	
	7'6"	U3	(91) 45.16.29 (CI)	14.3	TAQ	(4")	136.3	9.0	1728/5° 20	
								11.7	40	
								15.0	60	
	9'6"	M2							864/0°	
	10'0"	U4	(95) 32.16.16. (CL)	11.4					432/4°	
							Unable to prepare due to friability of sample			WS @ 11'6" SWL. 7'6" WL. 7'6"
6'3"	12'0" 12'6"	M3	(105)							
Very stiff weathered brown and green marl becoming clayey in parts.		U5	35.18.17 (CL/CI)	12.8	TAQ		134.6	68.7	20	
				12.8			133.8	74.3	40	
				13.5			130.2	55.1	60	
	14'6"	M4							4752/0°	
	15'0"	U6	(111) 45.22.23 (CI)	20.4	TAQ		123.3	36.0	20	
				19.6			122.1	50.1	40	
4'0"	16'6"			20.4			117.8	51.8	60	OCB @ 16'6"
									3312/0°	CAS @ 10'0"
									1728/10	SWL. 13'0"
			BOREHOLE	COMPLETED						BH back-filled as casing withdrawn.

REMARKS:

Sample	Depth	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (cone)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
So_3S. — Sulphate analysis on soil.
SO_3W. — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
OED. — Oedometer.

For other symbols used see overleaf.

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GEO — RESEARCH LTD. B/H. No. 131

CONTRACT. EXETER LEEDS TRUNK ROAD, A.38 — SHEET No. 1

LOCATION. MICKLEOVER BY-PASS AND LINK ROAD. — No. of sheets. 1

CLIENT. MINISTRY OF TRANSPORT (M.R.C.U.)

PERCUSSION U D S.P.T. B — Casing. Size 6" to 10'0" Size to.

Ground level. 71.058m

Chainage. 54 + 50

Commenced. 2/12/69

Completed. 2/12/69

Weather. SHOWERS

ROTARY Cored runs O/H

5 LEGEND

1 STRATUM (Scale: ¼ inch to 1 foot) Thickness	Depth 2	Sample No. 3	S.P.T. Blow Count (N) LL/PL/PI 4	M.C. % Core Rec. % 6	Type of Test 7	GRADING % PASSING SIEVE 3" / N.7 / 1½" 25 / ¾" 52 / ⅜" 100 / #200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f.	Dev. Stress p.s.i.	Lat. Pres. p.s.i. U.C.T. Stren. p.s.f. Shear/Lo p.s.f.	8 RESULTS OF ANY OTHER TESTS. 9	WATER REMARKS 10
Dark brown top soil. 1'0"	1'0"										
Stiff brown clay becoming sandy in part.	2'0"	D1									
	2'6"	U1	(76) 32.15.17 (CL)	17.2	TAQ		126.2	30.0	20		
				16.2			128.7	42.0	40		
3'0"	4'0"			15.6			129.2	43.5	60		
Firm red and green clay becoming marly in part.	4'6"	D2								2779/0° 1440/90°	
	5'0"	U2	(75) 39.16.23 (CI)	19.6	SO_3W	19.9 pH 7.5	128.8	16.1	20		
				19.5			127.9	17.6	40		
				18.8	TAQ		125.2	19.5	60		
	7'0"	M1		23.1						1282/0° 1008/2°	
	7'6"	U3	(90) 33.16.17 (CL)	15.3	TAQ		129.6	36.3	20		
				16.1			130.9	39.2	40		
				16.7			130.3	32.0	60		
	9'6"	M2		21.5						2578/0°	
	10'0"	U4	(97) 34.17.17. (CL)	19.8	TAQ		128.4	12.8	20		
				20.2			126.0	10.0	40		WS @ 11'6"
				19.8			127.1	13.3	60		SWL 6'0"
8'3"	12'0" 12'3"	M3	(100)	24.5						864/0°	Wl. 6'0"
Hard red/green marl, substantially weathered in part.		U5	27.18.9 (CL)	17.7			Unable to prepare due to friability of sample				
	14'6"	M4									
	15'0"	U6	(117) 32.13.19 (CL)	17.0			Unable to prepare due to friability of sample				
4'3"	16'6"										OCB @ 16'6"
			BOREHOLE	COMPLETED							CAS @ 10'0" SWL. 6'0" OWC. BH backfilled.

REMARKS:

Sample	Depth	M.C. % D.W.	SG.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (cone)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
So_3S. — Sulphate analysis on soil.
SO_3W. — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
OED. — Oedometer.

For other symbols used see overleaf.

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GEO — RESEARCH LTD. B/H. No. 132

CONTRACT. EXETER LEEDS TRUNK ROAD, A.38
LOCATION. MICKLEOVER BY-PASS AND LINK ROAD.

SHEET No. 1
No. of sheets. 1

CLIENT.
MINISTRY OF TRANSPORT
(M.R.C.U.)

PERCUSSION U D S.P.T. B — Size 6" to 10'0"
Casing. Size to. Size to.

Ground level. 67.565m
Chainage 56 + 88
Commenced. 3/12/69
Completed. 3/12/69

Weather.
RAIN

ROTARY Cored runs O/H

STRATUM (Scale: ¼ inch to 1 foot) 1 Thickness	Depth 2	Sample No. 3	SPT Blow Count (N) LL/PL/PI 4	M.C. % Core Rec. %	Type of Test	GRADING % PASSING SIEVE 3" N.7 / 1½" 25 / ¾" 52 / ⅜" 100 / 1/16" 200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f.	Dev. Stress p.s.i.	Lat. Pres. p.s.i. / U.C.T. Stren. p.s.f. Shear/L° p.s.f.	WATER REMARKS 10
Top soil 6"	6"									
Soft sandy brown clay with peat.	1'6"	D1								
	3'6"	U1	(97) 52.21.31 (CH)	66.7	TAQ		90.3	3.4	20	
				66.1			90.6	3.9	40	
				67.9	SO_3W	39.1 pH 7.5	89.5	4.2	60	
									274/0°	
5'6"	6'0"									
Very soft silty peaty grey/red/ brown clay.	6'6"	D2	(12) 43.24.19 (CI)	83.1						
		U2		35.4	TAQ		115.3	1.3	20	WS @ 7'0"
				40.4			111.3	1.3	40	SWL 5'6"
	8'0"	D3*		40.3			111.1	2.0	60	W1, 5'6"
2'6"	8'6"								115/0°	
Hard red marl substantially weathered and clayey in part.		U3	-(54) - (NP)	15.1			Unable to prepare due to friability of sample			
	10'0"	B1								
	13'6"	P1	14.11.17.10 (52)							
6'6"	15'0"									OCB @ 15'0"
			BOREHOLE		COMPLETED					CAS @ 10'0"
										SWL 5'6"
										OWC. SWL. 5'0".
										W2, 5'0"

REMARKS:
* D3. Moisture Content. 23.6

Sample	Depth	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (cone)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
So_3S. — Sulphate analysis on soil.
SO_3W. — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
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For other symbols used see overleaf.

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GEO — RESEARCH LTD. B/H. No. 133

CONTRACT. EXETER LEEDS TRUNK ROAD, A.38
LOCATION. MICKLEOVER BY-PASS AND LINK ROAD.

SHEET No. 1
No. of sheets. 2

CLIENT. MINISTRY OF TRANSPORT, (M.R.C.U.)

PERCUSSION U D S.P.T. B — Casing. Size 6" to 30'0" Size to.

ROTARY Cored runs O/H

Ground level. Chainage 67.555m
Commenced. 1/12/69
Completed. 3/12/69

Weather. DRY

STRATUM (Scale: ¼ inch to 1 foot) 1 Thickness	Depth 2	Sample No. 3	S.P.T. Blow Count (N) LL/PL/PI 4	5 LEGEND	M.C. % Core Rec. % 6	Type of Test 7	GRADING % PASSING SIEVE 3" N.7	1½" 25	¾" 52	⅜" 100	⅛" 200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f.	Dev. Stress p.s.i.	Lat. Pres. p.s.i.	U.C.T. Stren. p.s.f. Shear/L° p.s.f.	WATER REMARKS 10
Top soil 6"	6"															
Soft grey sandy clay.	1'6"	D1														
	3'6"	U1	(19) 34.13.21 (CL)		27.8	TAQ						118.4	6.4	20		
					25.7							120.2	8.4	40		
4'6"	5'0"				-							-	10.9	60		
Compact medium gravel with red clay matrix	5'6"	D2												619/0° 288/3°		
		P1	4.4.3.4. (15)													
	7'0"	B1														Damp
	8'6"	P2	5.3.4.3. (15)													
6'0"	11'0"															
Hard weathered red/ green marl becoming sandy at times.	11'6"	D2														
		U2	(38) 26.13.13 (CL)		17.1							Unable to prepare due to friability of sample				WS @ 12'0" SWL 4'6" W1. 4'6"
	14'0"	M1			22.3											
	16'6"	U3	(52) 32.17.15 (CL)		18.1							Unable to prepare due to friability of sample				
	20'0"	M2			11.8											
	21'0"	P3	15.15.17.18 (65)													Wet
	22'6"	B2														
	24'0"	P4	75 for 15" total													
	27'0"	P5	75 for 16" total													
	27'6"	B3														
19'0"	30'0"															
Continued on sheet 2.																

REMARKS:

Sample	Depth	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (cone)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
$So_3S.$ — Sulphate analysis on soil.
$SO_3W.$ — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
OED. — Oedometer.

For other symbols used see overleaf.

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GEO — RESEARCH LTD. B/H. No. 133

CONTRACT. EXETER LEEDS TRUNK ROAD, A.38
LOCATION. MICKLEOVER BY-PASS AND LINK ROAD.

SHEET No. 2
No. of sheets. 2

CLIENT.
MINISTRY OF TRANSPORT
(M.R.C.U.)

PERCUSSION U D S.P.T. B
ROTARY Cored runs O/H
5 LEGEND

Casing. Size 6" to 30'0" Size to.

Ground level. 67.555m
Commenced. 1/12/69
Completed. 3/12/69

Weather. DRY - RAIN

STRATUM (Scale: ¼ inch to 1 foot) 1 Thickness	Depth 2	Sample No. 3	S.P.T. Blow Count (N) LL/PL/PI 4	M.C. % Core Rec. % 6	Type of Test 7	GRADING % PASSING SIEVE 3" N.7	1½" 25	¾" 52	⅜" 100	#7 200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f.	Dev. Stress p.s.i.	Lat. U.C.T. Pres. Stren. p.s.i. p.s.f. Shear/L° p.s.f.	8 RESULTS OF ANY OTHER TESTS. 9	WATER REMARKS 10
Hard red/green weathered marl becoming sandy at times.	30'0"	P6	75 for 12" total												Wet
	32'6"	B4													
	33'0"	P7	75 for 8" total												
	36'0"	P8	75 for 6" total												2/12/69 BH @ 37'0" CAS @ 30'0" SWL. 4'6"
	39'0"	P9	75 for 4" total												3/12/69 SWL. 4'0"
10'0"	40'0"														
			BOREHOLE		COMPLETED										OCB @ 40'0" CAS @ 30'0" SWL. 4'0" OWC. SWL. 6'0". W2. 6'0"

REMARKS:

Sample	Depth	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm. M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (cone)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
So_3S. — Sulphate analysis on soil.
SO_3W. — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
OED. — Oedometer.

For other symbols used see overleaf.

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GEO — RESEARCH LTD. B/H. No. 134

CONTRACT. EXETER LEEDS TRUNK ROAD,
LOCATION. MICKLEOVER BY-PASS AND LINK ROAD

SHEET No. 1
No. of sheets. 2

CLIENT.
MINISTRY OF TRANSPORT
(M.R.C.U.)

PERCUSSION U D S.P.T. B
ROTARY Cored runs O/H
LEGEND

Casing. Size 6" to 20'0" Size to.

Ground level. 67.245m
Chainage. 57 + 56
Commenced. 2/12/69
Completed. 2/12/69

Weather. SHOWERY

STRATUM (Scale: ½ inch to 1 foot) 1 Thickness	Depth 2	Sample No. 3	S.P.T. Blow Count (N) LL/PL/PI 4	M.C. % Core Rec. % 6	Type of Test 7	GRADING % PASSING SIEVE 3" N.7	1½" 25	¾" 52	⅜" 100	#200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f.	Dev. Stress p.s.i.	Lat. Pres. p.s.i. U.C.T. Stren. p.s.f. Shear/L° p.s.f.	8 RESULTS OF ANY OTHER TESTS. 9	WATER REMARKS 10
Top soil. 1'4"	1'4"														
Soft red/green/grey mottled clay becoming marly in part, with peat.	1'6"	D1													
	3'6"	U1	(20) 63.30.33 (CH)	56.8	TAQ						94.3	7.6	20		
				72.0							87.2	9.2	40		
				55.5							95.4	7.7	60		
													590/0°		
7'2"	8'6"		(25)												WS @ 8'0"
Firm red/green/grey mottled clay becoming marly in part with peat. 1'9"	10'3"	U2	52.25.27 (CH)	46.0							97.8	11.7	20	3" 18.3 pH 7.5	SWL 3'0"
				50.4							96.6	11.7	40		WL 8'0"
				46.8	TAQ						101.6	10.6	60		
													821/0°		
Hard red/green marl substantially weathered in part.	11'0"	D2													
	12'6"	U3	(173) 31.20.11 (CL)	11.6							Unable to prepare due to friability of sample				
	15'0"	D3		13.0											
	17'0"	P1	14.26.34.51 (125)												
8'9"	19'0"														
Hard red and green marl with weathered bands.	20'0"	P2	17.29.36.45 (127)												
	22'0"	D4		9.4											
	23'0"	P3	159 for 12" total												
	26'0"	P4	115 for 9" total												
	28'0"	B1													
10'10"	29'0"														
Continued on sheet 2.															

REMARKS:

Sample	Depth	M.C. % D.W.	SG.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (cone)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
So_3S. — Sulphate analysis on soil.
SO_3W. — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
OED. — Oedometer.

For other symbols used see overleaf.

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GEO — RESEARCH LTD. B/H. No. 134

CONTRACT. EXETER LEEDS TRUNK ROAD, A.38
LOCATION. MICKLEOVER BY-PASS AND LINK ROAD
SHEET No. 2
No. of sheets. 2

CLIENT. MINISTRY OF TRANSPORT (M.R.C.U.)

PERCUSSION U D S.P.T. B
Casing. Size 6" to 20'0" Size to.
ROTARY Cored runs O/H
Ground level. 67.245m
Chainage. 57 + 56
Commenced. 2/12/69
Completed. 2/12/69

Weather. SHOWERY

STRATUM (Scale: ¼ inch to 1 foot) 1 Thickness	Depth 2	Sample No. 3	S.P.T. Blow Count (N) LL/PL/PI 4	LEGEND 5	M.C. % Core Rec. % 6	Type of Test 7	GRADING % PASSING SIEVE 3" N.7	1½" 25	¾" 52	⅜" 100	#16 200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f.	Dev. Stress p.s.i.	Lat. Pres. p.s.i. U.C.T. Stren. p.s.f. Shear/L° p.s.f.	WATER REMARKS 10
Hard red and green marl becoming less weathered with depth.	29'0"	P5	119 for 9" total		14.1										
	32'0"	P6	117 for 9" total												
	33'0"	D5			9.8										
	35'0"	P7	75 for 3" total												
	38'0"	P8	75 for 3" total												
11'10"	39'9" 40'0"	P9	75 for 3" total												OCB @ 40'0" CAS @ 20'0" Water nil. OWC. SWL. 3'0". W2. 3'0"
			BOREHOLE		COMPLETED										

REMARKS:

Sample	Depth	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (cone)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
So_3S. — Sulphate analysis on soil.
SO_3W. — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
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GEO — RESEARCH LTD. B/H. No. 135

CONTRACT. EXETER LEEDS TRUNK ROAD, A.38
LOCATION. MICKLEOVER BY-PASS AND LINK ROAD

SHEET No. 1
No. of sheets. 2

CLIENT.
MINISTRY OF TRANSPORT
(M.R.C.U.)

PERCUSSION U D S.P.T. B
ROTARY Cored runs O/H
LEGEND

Casing. Size 6" to 20'0" Size to.

Ground level. 69.258m
Commenced. 28/11/69
Completed. 1/12/69

Weather. DRY

STRATUM (Scale: ¼ inch to 1 foot) 1 Thickness	Depth 2	Sample No. 3	S.P.T. Blow Count (N) LL/PL/PI 4	M.C. % Core Rec. % 6	Type of Test 7	GRADING % PASSING SIEVE 3" N.7	1½" 25	¾" 52	⅜" 100	⅜" 200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f.	Dev. Stress p.s.i.	Lat. Pres. p.s.i.	U.C.T. Stren. p.s.f. Shear/L° p.s.f.	8 RESULTS OF ANY OTHER TESTS. 9	WATER REMARKS 10
Dark brown top soil. 6"	6"															
Red and green marl substantially weathered in part.	1'6"	D1														
	3'6"	U1	(28) 29.20.9 (CL)	15.1											Unable to prepare due to friability of sample	
4'6"	5'0"															
Hard red and green marl with sandstone bands becoming less weathered with depth	6'0"	M1														
	8'6"	U2	(48) (NP)	20.3	TAQ						120.8	27.0	20			
				-							-	48.0	40			
				-							-	58.5	60			
														3211/0°		
	11'0"	M2		25.0										576/17°		
	13'6"	U3	(50) 29.18.11 (CL)	17.1											Unable to prepare due to friability of sample	
	16'0"	M3		20.0												
	18'6"	U4	(47) 30.19.11 (CL)	17.8												
	21'0"	M4		16.2												
	23'6"	U5	(73) 26.16.10 (CL)	16.0											Unable to prepare due to friability of sample	
	26'0"	P1	75 for 12" total	16.5												
	29'0"	P2	75 for 10" total													
25'10"	30'0"															
Continued on sheet 2.																

REMARKS:

Sample	Depth	M.C. % D.W.	SG.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (core)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
So_3S. — Sulphate analysis on soil.
SO_3W. — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
OED. — Oedometer.

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GEO — RESEARCH LTD. B/H. No. 135

CONTRACT. EXETER LEEDS TRUNK ROAD, A.38
LOCATION. MICKLEOVER BY-PASS AND LINK ROAD

SHEET No. 2
No. of sheets. 2

CLIENT. MINISTRY OF TRANSPORT (M.R.C.U.)

PERCUSSION U D S.P.T. B

Casing. Size 6" to 20'0" Size to.

Ground level. 69.258m
Commenced. 28/11/69
Completed. 1/12/69

Weather. DRY

ROTARY Cored runs O/H

M.C. % Core Rec. %

Type of Test

GRADING % PASSING SIEVE: 3" | 1½" | ¾" | ⅜" | T⅝" — N.7 | 25 | 52 | 100 | 200

TAQ. or U.C.T.: Bulk Density p.c.f. Shear /o° p.s.f. | Dev. Stress p.s.i. | Lat. Pres. p.s.i. | U.C.T. Stren. p.s.f. Shear/L° p.s.f.

WATER REMARKS

STRATUM (Scale: ¼ inch to 1 foot) 1 Thickness	Depth 30'0" 2	Sample No. 3	S.P.T. Blow Count (N) LL/PL/PI 4	5 LEGEND	6	7	8 RESULTS OF ANY OTHER TESTS.	9	10
Hard red and green marl.	32'0"	P3	75 for 9" total						
	34'0"	B1							
	35'0"	P4	75 for 7" total						
	38'0"	P5	75 for 5" total						
10'0"	40'0"								Water table not encountered

REMARKS:

Sample	Depth	M.C. % D.W.	SG.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (Cone)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
So_3S. — Sulphate analysis on soil.
SO_3W. — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
OED. — Oedometer.

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GEO — RESEARCH LTD. B/H. No. 136

CONTRACT. EXETER LEEDS TRUNK ROAD, A.38 — SHEET No. 1

LOCATION. MICKLEOVER BY-PASS AND LINK ROAD — No. of sheets. 2

CLIENT. MINISTRY OF TRANSPORT (M.R.C.U.) — Ground level. 65.750m

PERCUSSION U D S.P.T. B — Casing. Size 6" to 20'0" — Commenced. 1/12/69

Completed. 1/12/69

Weather. SHOWERY

ROTARY Cored runs O/H

STRATUM (Scale: ¼ inch to 1 foot) 1 Thickness	Depth 2	Sample No. 3	S.P.T. Blow Count (N) LL/PL/PI 4	5 LEGEND	M.C. % Core Rec. % 6	Type of Test 7	GRADING % PASSING SIEVE 3" N.7 / 1½" 25 / ¾" 52 / ⅜" 100 / #200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f.	Dev. Stress p.s.i.	Lat. Pres. p.s.i. UCT. Stren. p.s.f. Shear/L° p.s.f.	WATER REMARKS 10
Dark brown top soil. 1'0"	1'0"										
Red silty clay becoming marly in part. 3'0"	2'0"	D1									
	3'6"	B1									
	4'0"										
Soft red/green mottled marly clay with peat. 5'6"	5'0"	U1	(19) 40.23.17 (CI)		50.3	TAQ		99.4	5.3	20	
					32.9			110.9	5.9	40	
					34.4			110.0	5.5	60	
										403/0°	
	7'6"	D2									
	9'6"										
Very soft red/green mottled marly clay with peat. 2'6"	10'0"	U2	(30) 62.14.48 (CH)		53.9	TAQ		96.6	2.7	20	
					53.7			98.0	2.4	40	
					63.5			93.7	1.5	60	
	12'0"					SO₃W 13.7 pH 7.5				156/0°	WS @ 12'0"
Hard red/green marl substantially weathered but becoming less weathered with depth. 16'0"	12'6"	D3			19.8						SWL 4'6"
											W1, 12'0"
	15'0"	U3	(207) 31.19.12 (CL)		13.6			Unable to prepare due to friability of sample			
	17'6"	D4			11.4						
	18'0"	P1	190 for 15" total.								
	21'0"	P2	185 for 15" total								Dry
	23'0"	D5			11.5						
	24'0"	P3	163 for 12" total								
	27'0"	P4	178 for 12" total								
	28'0"										
Continued on sheet 2.											

REMARKS:

Sample	Depth	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (cone)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
$So_3S.$ — Sulphate analysis on soil.
$SO_3W.$ — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
OED. — Oedometer.

For other symbols used see overleaf.

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GEO — RESEARCH LTD. B/H. No. 136

CONTRACT. EXETER LEEDS TRUNK ROAD, A.38 — SHEET No. 2

LOCATION. MICKLEOVER BY-PASS AND LINK ROAD — No. of sheets. 2

CLIENT. MINISTRY OF TRANSPORT, (M.R.C.U.) — Ground level. 65.750m

PERCUSSION U D SPT B — Casing. Size 6" to 20'0" Size to. — Commenced. 1/12/69

ROTARY Cored runs O/H — Completed. 1/12/69

Weather. SHOWERY

STRATUM (Scale: ¼ inch to 1 foot) 1 Thickness	Depth 2	Sample No. 3	SPT Blow Count (N) LL/PL/PI 4	M.C. % Core Rec. % 6	Type of Test 7	GRADING % PASSING SIEVE 3" N.7 / 1½" 25 / ¾" 52 / ⅜" 100 / #16 200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f. / Dev. Stress p.s.i. / Lat. Pres. p.s.i. / U.C.T. Stren. p.s.f. Shear/L° p.s.f.	WATER REMARKS 10
Hard red/green mottled marl.	29'0"	B2						
	30'0"	P5	141 for 9" total					
	33'0"	P6	75 for 3" total	8.1				
	36'0"	P7	75 for 3" total					
12'0"	39'9" 40'0"	P8	75 for 1" total					OCB @ 40'0" CAS @ 20'0" Water nil. OWC. SWL 4'6". W2, 4'6"
			BOREHOLE	COMPLETED				

REMARKS:

Sample	Depth	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (cone)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
So_3S. — Sulphate analysis on soil.
SO_3W. — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
OED. — Oedometer.

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GEO — RESEARCH LTD. B/H. No. 140

CONTRACT. EXETER LEEDS TRUNK ROAD A.38. SHEET No. 1

LOCATION. MICKLEOVER BY-PASS AND LINK ROAD. No. of sheets. 2

CLIENT. MINISTRY OF TRANSPORT (M.R.C.U.)

PERCUSSION U D S.P.T. B — Casing. Size 6" to. Size to. 25'0"

ROTARY Cored runs O/H — LEGEND

Ground level. 74.042m
Chainage. 60 + 83
Commenced. 27/11/69
Completed. 30/11/69

Weather. SHOWERY

STRATUM. (Scale: ¼ inch to 1 foot) 1 Thickness	Depth 2	Sample No. 3	S.P.T. Blow Count (N) LL/PL/PI 4	M.C. % Core Rec. % 6	Type of Test 7	GRADING % PASSING SIEVE 3" N.7	1½" 25	¾" 52	⅜" 100	#16 200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f.	Dev. Stress p.s.i.	Lat. Pres. p.s.i.	U.C.T. Stren. p.s.f. Shear/L° p.s.f.	WATER REMARKS 10
Top soil 6"	6"														
Ash, soil and clay fill.	2'0"	D1													
3'0"	3'6"														
Mottled marl.		B1													
1'6"	5'0"														
Stiff clayey friable weathered red/brown marl.															
	8'6"	U1	(63) 37.15.22 (CI)	15.7							Unable to prepare due to friability of sample				
	9'6"	B2													
	11'0"	P1	8.9.15.20 (52)	14.1											
	13'6"	*U2	(89) 45.19.26 (CI)	19.8	TAQ						112.8	15.9	20		
	14'6"	B3		18.3							120.6	26.5	40		
				-							-	21.2	60		
														1526/0°	
	16'0"	P2	10.18.23.38 (89)		SO_3W	51.5 pH 7.0									
	18'6"	*U3	(107) 31.17.14. (CL)	11.9		"					Unable to prepare due to friability of sample				
	19'6"	B4		13.9											
	20'6"	P3	17.25.39.51 (132)												
	23'6"	U4	(161) 32.15.17. (CL)	11.7							Unable to prepare due to friability of sample				WS @ 23'0" SWL. 16'0" WL 16'0"
	26'6"	P4	185 for 15" total												
	28'0"	D2		10.6											
24'0"	29'0"														
Continued on sheet 2.															

REMARKS:

* For oedometer results, see separate sheet.

Sample	Depth	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P.— " " " (cone)
U — Undisturbed sample. 4"
U1½ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
$So_3S.$ — Sulphate analysis on soil.
$SO_3W.$ — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
OED. — Oedometer.

For other symbols used see overleaf.

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GEO — RESEARCH LTD. B/H. No. 140

CONTRACT. EXETER LEEDS TRUNK ROAD A.38. SHEET No. 2

LOCATION. MICKLEOVER BY-PASS AND LINK ROAD No. of sheets. 2

CLIENT. MINISTRY OF TRANSPORT (M.R.C.U.)

PERCUSSION U D S.P.T. B — Casing. Size 6" to 25'0" Size to.

ROTARY Cored runs O/H — LEGEND

Ground level. 74.042m

Chainage. 60 + 83

Commenced. 27/11/69

Completed. 30/11/69

Weather. VERY COLD

STRATUM (Scale: ¼ inch to 1 foot) 1 Thickness	Depth 2	Sample No. 3	S.P.T. Blow Count (N) LL/PL/PI 4	M.C. % Core Rec. % 6	Type of Test 7	GRADING % PASSING SIEVE 3" N.7	1½" 25	¾" 20	⅜" 100	#200 200	TAQ. or U.C.T. Bulk Density p.c.f. Shear /o° p.s.f.	Dev. Stress p.s.i.	Lat. U.C.T. Pres. p.s.i. Stren. p.s.f. Shear/L° p.s.f.	WATER REMARKS
						8 RESULTS OF ANY OTHER TESTS.							9	10
Stiff clayey friable weathered red/brown marl.	29'6"	P5	30, 42, 57, 75 (204)											
	31'0"	D3												
	32'6"	P6	160 for 12" total	10.8										
	34'0"	B5												
6'0"	35'0"													
Hard clayey red/brown marl.	35'6"	P7	151 for 12" total											28/11/69 BH @ 35'0" CAS @ 20'0" SWL.16'0" 30/11/69 SWL.16'0"
	38'0"	D4		13.1										
	38'6"	P8	75 for 3" total											
	40'0"	B6		17.9										
	41'6"	P9	75 for 3" total											
	43'0"	D5		11.6										
	44'6"	P10	75 for 3" total											
	47'0"	D6		11.7										
	47'6"	P11	75 for 2" total											
	49'0"	D7		10.6										
1'10"	49'9" 50'0"	P12	75 for 2" total											OCB @ 50'0" CAS @ 25'0" SWL.16'0" OWC.SWL. 16'0". W2,16'0"
	BOREHOLE			COMPLETED										

REMARKS:

Sample	Depth	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No	Max. Dry Density	Optm M.C.

A — Disturbed sample for Client.
B — Disturbed bulk sample.
D or M — Disturbed jar sample.
P — Standard penetration test. (spoon)
C.P. — " " " (core)
U — Undisturbed sample. 4"
U1¼ — Undisturbed sample. 1½"
W — Water sample.

C.B.R. — California bearing ratio.
GR. — Grading analysis.
M.C. — Moisture Content.
$So_3S.$ — Sulphate analysis on soil.
$SO_3W.$ — Sulphate analysis on water.
TAQ. — Triaxial compression test. (undrained)
U.C.T. — Unconfined compression test.
OED. — Oedometer.

For other symbols used see overleaf.

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Appendix C-2

Exploratory Hole Logs – Markeaton

GEO – RESEARCH LTD. B/H No. A1

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6
LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT ROAD SITE 1

SHEET No. 1
No. of sheets 1

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B
Rotary Cored runs O/H
CASING Size to. Size to. Nil

Ground Level 80.10m
Chainage 6412
Commenced 24/11/71
Completed 24/11/71

Weather DRY

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5 Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / 40 / 20 / 10 / 5; μm 600 / 210 / 150 / 75; mm 2.40	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
~~TOPSOIL ROOTS 0.08~~	~~0.08~~										
Stony red marl with rootlets (FILL) 0.37	0.30 0.45	D1	38,16,22. (CI)		23.5						
Black silty TOPSOIL with roots 0.30	0.60 0.75	D2	34,22,12. (CL)		31.2						Dry
Brown sandy CLAY with occasional gravel 0.33	1.08	B1									
Band of grey * 0.15	1.23	D3	33,17,16. (CL)		20.4						
Hard red silty MARL (Keuper Marl) (1) 0.62	1.85	B2	36,15,21. (CI)		20.4						Dry
Grey MUDSTONE (Skerry)			BOREHOLE COMPLETE								Water Table Not Established

REMARKS:
Trial Pit dug for Services 1.830 x 0.760 x 1.220.
Hand Auger used from 1.220.
* MUDSTONE (Skerry)

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Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

GEO – RESEARCH LTD. B/H No. T2

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6
ASHBOURNE ROAD-ALLESTREE IMPROVEMENT ROAD SITE 1
LOCATION

SHEET No. 1
No. of sheets 1

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B
SPT
Rotary
Cored runs
O/H
Legend 5

CASING Size to. Size to.
Nil

Ground Level 81.05m
Chainage 6510
Commenced 9/2/72
Completed 9/2/72

Weather FINE

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 / mm 2.40; mm 40 / µm 600; mm 20 / µm 210; mm 10 / µm 150; mm 5 / µm 75	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Sheer/∠° kN/m²	WATER REMARKS 10
TURF AND TOPSOIL 0.20	0.20									
Sandy clayey TOPSOIL with occasional pebbles (Fill) 0.47	0.67									
Soft red silty sandy MARL (Keuper Marl) (i) 1.33	1.00	B1	48.17.31. (CI)	20.6	SO_3	0.06				
	2.00									
Red MARL with thin bands of green/grey * 0.43	2.43	B2		36.8						
Green/grey SILTSTONE (Skerry) (ii) 0.57	3.00									Water Table Not Established
			BOREHOLE COMPLETE							

REMARKS:
Dimensions of Trial Pit :
3.000 x 1.000 x 3.000

* SILTSTONE (Keuper Marl)

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Sample	Depth m	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
B1	1.00		2.65	6%	Static	4	3	4	3				
B1				7%								1800	14.0
B2	2.00		2.65	5%	Static	2	2	2	2			1580	22.0

For other symbols used see overleaf

GEO – RESEARCH LTD. B/H No. A3

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 — SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT ROAD SITE 1 — No. of sheets 1

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion: U / D / SPT / B

CASING: Size to. Size to. Nil

Ground Level 76.80m
Chainage 6603
Commenced 26/11/71
Completed 26/11/71

Weather: DRY

Rotary: Cored runs / O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	Legend 5	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: 75mm / 40mm / 20mm / 10mm / 5mm; 2.40mm / 600µm / 210µm / 150µm / 75µm	TRIAXIAL TEST: Bulk Density Kg/m³ / Dev. Stress kN/m² / Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/φ° kN/m²	WATER REMARKS 10.
TOPSOIL ROOTS 0.08	0.08								
0.07	0.15								
Hard red MARL (Keuper Marl) (ii) 0.46	0.61	B1	29.19.10. (CL)	1	8.4		8 Results of any other Tests		Dry Discontinued due to Rock @ 0.610

REMARKS:
Trial Pit dug for Services
0.910 x 0.910 x 0.610

• Stiff red MARL (Keuper Marl)

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

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GEO – RESEARCH LTD. B/H No. R11

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 — SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT ROAD SITE 2 — No. of sheets 1

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B — Rotary Cored runs O/H — Legend 5

CASING Size 0.150 to. 3.000 Size to.

Ground Level 64.00m

Commenced 30/11/71

Completed 30/11/71

Weather FROSTY

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 / mm 2.40; mm 40 / µm 600; mm 20 / µm 210; mm 10 / µm 150; mm 5 / µm 75	TRIAXIAL TEST: Bulk Density Kg/m³; Dev. Stress kN/m²; Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10
Topsoil, clay and stone FILL (1) 0.76	0.50 0.76	B1						
Firm red and grey MARL with sandstone fragments and hard skerry bands (Keuper Waterstones) (1)	1.00	U1	(37)	19.3				
	1.50	B2		19.0				
	2.50	U2	(105)	13.7				
	3.00	B3						
	3.25	P1	6,5,5,5. (21)					
	4.00	U3	(121)	16.5				
	4.55	P2	69 for 0.390 total					
4.19	4.95							Water Table Not Established
			BOREHOLE	COMPLETE				

REMARKS:
Trial Pit dug for Services
0.750 x 0.750 x 0.750

Sample	Depth m	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
B2	1.50		2.65	5%	Static	12	10	17	14				

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For other symbols used see overleaf

GEO – RESEARCH LTD. B/H No. R15

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 — SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT ROAD SITE 2 — No. of sheets 1

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Ground Level 62.90m

Commenced 31/11/71

Completed 31/11/71

Weather FROSTY

Percussion U D SPT B — Rotary Cored runs O/H — CASING Size to. Size to. 0.150 1.630

STRATUM. (Scale: 20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: 75mm / 40mm / 20mm / 10mm / 5mm; 2.40mm / 600µm / 210µm / 150µm / 75µm — 8. Results of any other Tests	TRIAXIAL TEST: Bulk Density Kg/m³ / Dev. Stress kN/m² / Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
Topsoil, clay, brick and stone FILL (1) 0.66	0.50 0.66	B1							
Firm red and grey MARL with sandstone fragments and hard skerry bands (Keuper Waterstones) (1)	1.00	U1	(105)		18.0				
	1.75	P1 B2	6.7.7.8. (28)		14.8				
	2.50	U2	(128)		11.5				
	3.25	P2 B3	5.6.8.6. (25)						
	4.00	U3	(128)		15.0				
4.34	4.50 5.00	B4							WS @ 4.750 SWL 4.350
			BOREHOLE		COMPLETE				OCB @ 5.000 Cas @ 1.630 SWL 4.350 BH Backfilled as casing withdrawn

REMARKS:

Trial Pit dug for Services
0.910 x 1.200 x 0.830

Sample	Depth m	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
B2	1.75		2.65	6%	Dynamic	12	12	10	11				

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For other symbols used see overleaf

GEO – RESEARCH LTD. B/H No. A23

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6
LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT ROAD SITE 3

SHEET No. 1
No. of sheets 1

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B
Rotary Cored runs O/H
CASING Size to. Size to. Nil

Ground Level 57.15m
Chainage 7300
Commenced 17/11/71
Completed 17/11/71

Weather CLOUDY

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: mm 75 / mm 40 / mm 20 / mm 10 / mm 5 (mm 2.40 / μm 600 / μm 210 / μm 150 / μm 75)	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS. 10.
0.07	0.07										
Firm to stiff light brown sandy silty CLAY with occasional pebbles (Fill) (1) 0.99	0.15	B1	40.21.19. (CI)		23.4						
	0.75	D1			24.4						
	1.06										
Firm red/brown and grey CLAY with ** 0.48	to 1.50	B2 D2	39.21.18. (CI)		21.5 31.5	SO_3	0.03				Damp
	1.54										
Firm dark *** 0.28	1.75	B3	34.11.23. (CI)		24.4						Dry
	1.82	D3			22.1						Water Table Not Established
			BOREHOLE		COMPLETE						

REMARKS:
* TURF and SOIL.
** topsoil and pebbles (Fill)
*** grey clayey SILT with pebbles (Alluvium) (Unsuitable)

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Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

GEO – RESEARCH LTD. B/H No. B24.

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6, SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 2. No. of sheets 2

CLIENT DEPARTMENT OF THE ENVIRONMENT. M. R. C. U. DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B SPT | CASING Size 0.150 to. Size 6.700 to. | Ground Level 56.70m | Chainage 7355 | Commenced 9/11/71 | Completed 10/11/71

Weather DRY/FROSTY

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	Legend 5	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / 40 / 20 / 10 / 5; µm 2.40 / 600 / 210 / 150 / 75 — 8 Results of any other Tests	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T Pres. Stren. kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
~~Grass Turf~~ 0.05	0.05										
Stiff brown silty clay FILL (i) 0.86	0.30 0.91	D1	39.17.22. (CI)		27.0						Dry
Very soft brown/grey sandy silty CLAY with organic material (Alluvium or Possible Fill)	1.21 1.37 1.52	B1 D2 U1*	50.24.26. (CI/CH) (13)		55.0 35.7 69.6 70.6 64.7	SO_3W TAQ	4.80 pH 7.50	1580 1520 1600	21 21 28	100 200 400 12/0°	Damp
(Unsuitable)	2.43	B2	47.22.25. (CI)		29.5						
2.59	3.04 3.50	P1	13.21.15.15 (64)		9.4	SO_3W	3.43 pH 7.50				WS @ 3.040 SWL 2.890 WL – 2.390
Loose brown SAND and GRAVEL (Terrace Deposits) (ii) 1.52	3.65 4.57 4.72 5.02	B3 P2 B4**	2.-.3.3. (8)		9.2 18.6 14.3						
Continued on Sheet 2.											

REMARKS:

* Consolidation Results – see separate sheet.

** B4 Classification : 32.17.15. (CL)

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Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

GEO – RESEARCH LTD.

B/H No. B24.

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6,

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 2.

SHEET No. 2

No. of sheets 2

CLIENT

DEPARTMENT OF THE ENVIRONMENT.
M. R. C. U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B

CASING Size 0.150 to 6.700 Size to.

Ground Level 56.70m

Chainage 7355

Commenced 9/11/71

Completed 10/11/71

Weather DRY/FROSTY

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / mm 40 / mm 20 / mm 10 / mm 5 / μm 600 / μm 210 / μm 150 / μm 75 — 8 Results of any other Tests	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
	5.02										
Hard very weathered red and grey MARL (Keuper Marl)	5.33	D3			18.1	SO_3S	0.05				Damp 9/11/71
(i)	6.09	P3	7.8.10.13. (38)		15.9						BH @ 5.480
	6.40	B5	31.17.14. (CL)		6.9	SO_3S	0.03				Cas @ 5.480
	6.85	P4	24.30.26.25		11.9						Water Nil 10/11/71
	7.01	D4*	(105)		19.4						SWL 1.210
	7.62	B6									
	8.07	P5	10.12.14.15 (51)		14.0						
	8.22	B7	32.16.16. (CL)		21.7						
	8.99	P6**	32.15.17. (CL)		13.5						
4.42	9.44										OCB @ 9.440 Cas @ 6.700 SWL 1.210 BH backfilled as casing withdrawn.
			BOREHOLE		COMPLETE						

REMARKS:

* D4 Classification : 33.16.17. (CL)

** P6 Blowcount : 10.12.18.22. (62)

Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

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GEO – RESEARCH LTD. B/H No. B25.

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6, SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 2. No. of sheets 1

CLIENT DEPARTMENT OF THE ENVIRONMENT. M. R. C. U. DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B / SPT / Rotary Cored runs O/H

CASING Size 0.150 to. 5.630 Size to.

Ground Level 56.70m

Chainage 7370

Commenced 11/11/71

Completed 11/11/71

Weather DRY/FROSTY

STRATUM. (Scale: 20mm to 1 metre). 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 mm 2.40 / mm 40 µm 600 / mm 20 µm 210 / mm 10 µm 150 / mm 5 µm 75	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Let. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10
						8 Results of any other Tests				
Turf with TOPSOIL 0.15	0.15									
Compact brown/grey/red marley clay FILL	0.30	D1		25.3	SO_3S	0.01				
(i)	0.91	B1	32.15.17. (CL)	22.8						
1.22	1.32 1.37	D2		60.2	SO_3S	0.26				
Very soft grey/black sandy silty CLAY with organic material	1.52	U1*	55.37.18. (MH/OH) (13)	78.0			1510	26	100	
				76.9	TAQ		1540	28	200	
				72.8			1560	26	400 13/0°	
(Alluvium)										
(Unsuitable)										Water Added
	3.04	P1 B2	3.6.7.9. (25)	10.7 1.0		100 66 23 7 4 3 3 2 2 2				
2.13	3.50									
Dense brown SAND and GRAVEL					SO_3W	1.37 pH 7.50				
(Terrace Deposits)										
(ii)	4.57	P2 B3	12.13.9.4. (38)	7.6						
1.68	5.18									
Very stiff weathered red/grey silty MARL	5.33	D3 B4	33.16.17. (CL)	25.8 22.6						
	5.79	D4		22.2	SO_3S	0.03				WS @ 5.630
(i)	5.94	U2	30.15.15. (OL)	18.1			2170	244	100	SWL 3.650
				17.5	TAQ		2170	357	200	WI - 3.650
1.22	6.40		(35)	18.4			2150	385	400 164/0°	OCB @ 6.400
			BOREHOLE	COMPLETE					60/15°	Cas @ 5.630 SWL 3.650 OWC-SWL 2.430

REMARKS:

* Consolidation Results - see separate sheet.

Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

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GEO – RESEARCH LTD. B/H No. T26

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT ROAD SITE 3

SHEET No. 1

No. of sheets 1

CLIENT

DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B

Rotary Cored runs O/H

CASING Size to. Size to. Nil

Ground Level 56.60m

Chainage 7405

Commenced 9/2/72

Completed 9/2/72

Weather FINE

STRATUM. (Scale: 20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	Legend 5	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / mm 2.40; mm 40 / µm 600; mm 20 / µm 210; mm 10 / µm 150; mm 5 / µm 75	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
							8 Results of any other Tests				
TURF and TOPSOIL 0.38	0.38										Moist
Brown mottled sandy CLAY with roots* 0.32	0.40 0.70	B1	46.22.24. (CI)		23.7	SO_3 S	0.05				Moist
Firm yellow and grey clay FILL (i) 0.32	1.02										Moist
Soft red and green MARL (Fill) 0.54	1.56										Wet
Soft plastic grey/ brown clayey SILT, becoming sandier towards base (Alluvium) (Unsuitable) 1.44	3.00										Wet
			BOREHOLE		COMPLETE						Water Table Not Established

REMARKS:

Dimensions of Trial Pit :
3.000 x 1.000 x 3.000

* and occasional pebbles.

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

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GEO – RESEARCH LTD. B/H No. B100

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 — SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 — No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B / SPT / Rotary / Cored runs / O/H

CASING Size 0.150 to 3.040 Size to.

Ground Level 71.95m
Chainage 6690
Commenced 23/11/71
Completed 25/11/71

Weather DRY WITH SEVERE FROST/ DRY FROSTY/FINE

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: 75mm	40mm 600µm	20mm 210µm	10mm 150µm	5mm 75µm	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
Green turf with brown TOPSOIL 0.35	0.35														
Compact red/grey marly FILL 0.25	0.60														Dry
Compact brown clay FILL (i) 0.77	0.91	B1			21.1										
	1.37	D1			21.3										
Firm red and grey highly weathered MARL with bands of marly siltstone (Keuper Marl) (i) 1.63	1.52	U1*	33.14.19. (CL) (40)		23.8							2030	89	100	
					23.3	TAQ						2060	76	200	
					23.6							2050	97	400	
														44/0°	Dry
	2.90 3.00	D2			11.2	SO_3S	0.01								
Hard friable red/brown weathered MARL with layers of siltstone (Keuper Marl) (i)	3.04	U2*	(40)		15.6							2120	246	100	
					16.4	TAQ						2040	343	200	
					13.9							2110	975	400	
														261/0°	
														12/30°	
	4.41	D3			6.7										
	4.57	U3	27.15.12. (CL) (75)												Dry
	5.95	D4			8.5	SO_3S	0.01								
	6.09	U4	(75)		15.4							2150	126	100	
					13.6	TAQ						1990	289	200	
					15.4							2130	297	400	
														119/0°	
														11/18°	
	7.47	D5			31.8										
	7.62	U5	34.17.17. (CL) (75)		12.6							2230	673	100	
					13.9	TAQ						2210	756	200	
					12.9							2250	989	400	
														403/0°	
														80/31°	
6.14	8.99 9.14	D6			7.2	SO_3S	0.01								

Continued on Sheet 2.

REMARKS:
Trial Pit dug for Services
0.600 x 0.770 x 0.760

* Consolidation Results - see separate sheet.

Sample	Depth m	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
U1	1.52		2.65	9%	Static	3	3	3	3				

For other symbols used see overleaf

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GEO – RESEARCH LTD.

B/H No. B100

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1

SHEET No. 2

No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B

CASING Size to. Size to. 0.150 3.040

Ground Level 71.95m

Chainage 6690

Commenced 23/11/71

Completed 25/11/71

Weather DRY WITH SEVERE FROST/ DRY FROSTY/FINE

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	Legend 5.	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 mm / 40 µm / 20 µm / 10 µm / 5 µm / 2.40 µm	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
Hard friable red/brown weathered MARL with layers of siltstone (Keuper Marl) (1)	9.14	P1	101 for 0.320 total		16.1						
	10.52	D7	28.14.14. (CL)		19.2						
	10.66	P2	75 for 0.120 total		10.6						Dry
						SO_3W	7.55 pH 7.50				
	11.74	D8			22.6	SO_3S	0.02				
	12.08	P3*	132 for 0.250 total		10.9						
3.19	12.33										OCB @ 12.330
			BOREHOLE COMPLETE								Cas @ 3.040
											Water Nil 25/11/71
											SWL 10.870
											Wl - 10.870
											OWC SWL 10.870

REMARKS:

* P3 Classification : 29.13.16. (CL)

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

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GEO – RESEARCH LTD. B/H No. B101

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT (BRIDGE SITE 1 No. of sheets 2

CLIENT DEPARTMENT OF THE ENVIRONMENT M.R.C.U. DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B | Rotary Cored runs O/H

CASING Size 0.150 to. 3.000 Size to.

Ground Level 72.65m Chainage 6690

Commenced 24/11/71 Completed 25/11/71

Weather FINE

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C. % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / 40 / 20 / 10 / 5; μm 2.40 / 600 / 210 / 150 / 75 8. Results of any other Tests	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠°. kN/m²	WATER REMARKS 10.
TARMAC and FILL 0.17	0.17										
Stiff red marly CLAY (Keuper Marl)	0.50	D1			28.4						
(i)	1.00	U1	(29)		21.2			2050	105	100	Dry
					25.0	TAQ		2020	56	200	
1.23	1.40				18.8			2080	276	400	
										73/0°	
Hard red/brown weathered silty MARL with siltstone pieces (Keuper Marl)	1.75	D2			17.1						
(i)	2.50	U2	29.16.13. (CL) (99)		18.4			2140	228	100	
					17.9	TAQ		2150	533	200	
					16.1			2200	582	400	
										224/0° 20/27°	
	3.25	P1	8.9.9.12. (38)		15.9						
	4.00	U3	(125)		15.3			2160	537	100	Dry
					14.9	TAQ		2170	642	200	
									919	400	
										350/0° 130/24°	
	4.75	P2	8.8.10.13. (39)		19.6						
	6.25	P3	81 for 0.380 total		16.8						
	7.50	U4	29.17.12. (CL) (89)		11.0			2020	426	100	
					11.6	TAQ		2030	598	200	
										256/0° 70/29°	
	8.75	P4	77 for 0.310 total		14.1						
7.74	9.14										

Continued on Sheet 2.

REMARKS:

Trial Pit dug for Services 0.910 x 0.910 x 0.910

Sample	Depth m	M.C. % D.W.	S.G.	C.B.R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
U1	1.00		2.65	6%	Static	2	2	3	3				

For other symbols used see overleaf

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GEO – RESEARCH LTD. B/H No. B101

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B
Rotary Cored runs O/H
Legend

CASING Size to. Size to.
0.150 3.000

Ground Level 72.65m
Chainage 6690
Commenced 24/11/71
Completed 25/11/71

Weather FINE

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / 40 / 20 / 10 / 5 mm; μm 2.40 / 600 / 210 / 150 / 75	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
Hard red/brown weathered silty MARL with siltstone pieces	9.14					8 Results of any other Tests				
(i)	10.25	P5	85 for 0.230 total	10.8						Dry
3.01	12.00 12.15	P6	80 for 0.140 total	13.9						Water Table Not Established
			BOREHOLE COMPLETE							

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD.

B/H No. B102

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1

No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion: U / D / SPT / B

CASING: Size 0.150 to. 4.57m Size to.

Ground Level 69.00m

Chainage 6750

Commenced 25/11/71

Completed 26/11/71

Weather FINE/DULL

Rotary: Cored runs / O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI 5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8. Results of any other Tests: mm 75 mm / mm 40 µm 600 / mm 20 µm 210 / mm 10 µm 150 / mm 5 µm 75	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ø° kN/m²	WATER REMARKS 10.
0.06	0.06									
Compact red and grey marl FILL (i) 0.60	0.66									Dry
Compact brown soil with clay FILL (i) 0.86	1.52									
Hard friable red and grey MARL with bands of siltstone (Keuper Marl) (i)	1.68	U1**	21.12.9. (CL) (39)	14.9			2020	454	100	
				13.8	TAQ		2020	640	200	
				15.3			2040	908	400	
	2.13	D1		10.9					334/0° 80/27°	
	2.90	D2		12.2	SO_3S	0.01				
	3.04	U2	(40)	13.3			2190	421	100	
				15.9	TAQ		2120	581	200	
				16.1			2130	662	400	
									277/0° 111/21°	Water Added
	4.42	D3		16.3						
	4.57	U3	30.13.17. (CL) (35)	11.6						Damp
	5.95	D4		12.0						
	6.09	U4	(75)	11.9			2040	346	100	
				13.5	TAQ		1980	442	200	
	6.56	P1	99 for 0.300 total	10.9	SO_3S	0.01		749	400	
									256/0° 70/24°	
	7.47	D5		15.6						
	7.62	U5**	30.14.16. (CL) (60)	18.0			2020	202	100	
				16.8	TAQ		2050	321	200	
	8.07	P2	74 for 0.300 total	15.4					131/0° 30/21°	
7.62	9.14									

Continued on Sheet 2

REMARKS:
Trial Pit dug for Services
1.520 x 0.940 x 1.520

* Green turf with TOPSOIL

** Consolidation Results- see separate sheet

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Sample	Depth m	M.C. % D.W.	S.G.	Air Voids	Type	C.B.R. TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
U1	1.68		2.65	3%	Static	7	7	7	7				

For other symbols used see overleaf

GEO – RESEARCH LTD. B/H No. B102

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B SPT
Rotary Cored runs O/H

CASING Size to. Size to.
0.150 4.57m

Ground Level 69.00m
Chainage 6750
Commenced 25/11/71
Completed 26/11/71

Weather FINE/DULL

STRATUM. (Scale: 20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	Legend 5.	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 / mm 40 / mm 20 / mm 10 / mm 5; mm 2.40 / μm 600 / μm 210 / μm 150 / μm 75	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
Hard friable red and grey MARL with bands of siltstone (Keuper Marl) (i)	9.14	P3	28,16,12. (CL) 88 for 0.220 total		10.3	SO_3S	0.02				
	10.66	P4	71 for 0.230 total		22.4						Damp
	12.19	P5	32,17,15. (CL) 86 for 0.270 total		15.3	SO_3S	0.01				
3.84	12.98										Water Table Not Established
			BOREHOLE		COMPLETE						

REMARKS:

Sample	Depth	M.C. % O.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD.

B/H No. B103

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1

No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B

CASING Size to. Size to.
0.150 7.500

Ground Level 69.15m
Chainage 6750
Commenced 25/11/71
Completed 26/11/71

Weather FINE

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 mm; mm 40 μm 600; mm 20 μm 210; mm 10 μm 150; mm 5 μm 75	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U C.T. Pres. Stren. kN/m² kN/m² Shear/z° kN/m²	WATER REMARKS 10
TOPSOIL 0.28	0.28										
Stiff red marly CLAY (Keuper Marl) (i)	0.50	D1			30.2						
	0.95	U1	(29)		18.9			2120	244	100	
					21.0	TAQ		2040	269	200	
					23.2			2020	277	400	
										132/0°	
	1.70	D2			26.3						Dry
1.72	2.00										
Hard red weathered MARL with bands of hard siltstone (Keuper Marl) (ii)	2.45	U2	33.19.14. (CL) (100)		12.2			2150	488	100	
					13.0	TAQ		2060	520	200	
					12.0			2110	805	400	
										302/0°	
	3.20	P1	4.5.5.9. (23)		13.1						
	3.95	U3	(130)		11.6			2130	413	100	
					11.9	TAQ		2110	551	200	
					11.0			2150	1202	400	
										361/0°	
										50/33°	
	4.70	P2	11.12.15.15 (53)		15.3						
	5.45	D3			4.5						
	6.00	P3	104 for 0.230 total		6.3						Dry
	7.50	P4	11.11.13.23 (58)		15.8						
7.00	9.00										

Continued on Sheet 2.

REMARKS:
Trial Pit dug for Services
0.910 x 0.910 x 0.760

Sample	Depth m	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
U1	0.95		2.65	7%	Static	6	5	6	6				

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GEO – RESEARCH LTD.

B/H No. B103

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

SHEET No. 2

LOCATIONASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1

No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B

CASING Size 0.150 to. 7.500 Size to.

Ground Level 69.15m

Chainage 6750

Commenced 25/11/71

Completed 26/11/71

Weather FINE

Rotary: Cored runs; O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: 75 mm / 40 mm / 20 mm / 10 mm / 5 mm	TRIAXIAL TEST: Bulk Density Kg/m³ / Dev. Stress kN/m² / Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
Hard red weathered MARL with bands of hard siltstone (Keuper Marl) (ii)	9.00	P5	70 for 0.300 total		14.0				
	10.50	P6	80 for 0.280 total		19.3				Dry
	12.00	P7	79 for 0.330 total		23.1				
3.33	12.33								Water Table Not Established
			BOREHOLE		COMPLETE				

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD.

B/H No. B104

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 BRIDGE SITE1

SHEET No. 1 / No. of sheets 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion / SPT / U D B

CASING Size 0.150 to 8.000 Size to.

Ground Level 66.10m
Chainage 6815
Commenced 30/11/71
Completed 2/12/71

Weather FINE

Rotary: Cored runs / O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8. Results of any other Tests: mm 75 / mm 40 / mm 20 / mm 10 / mm 5 / μm 600 / μm 210 / μm 150 / μm 75 / 2.40	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
TOPSOIL 0.10	0.10									
Clay and soil FILL (i) 0.60	0.50	D1		21.7						
	0.70									
	0.75	D2		18.7						
Hard red MARL with siltstone pieces (Keuper Waterstone) (ii)	1.50	U1	(70)	12.7			2230	831	100	
				13.5	TAQ		2180	831	200	
								1094	400	
									459/0°	
	2.25	P1	9.8.7.8. (32)	11.7						
	3.00	U2*	(34)	15.8			2120	296	100	
				13.9	TAQ		2100	443	200	
				14.5			2130	548	400	
									215/0°	
	3.75	D3		15.6					60/21°	
	4.50	U3	31.14.17. (CL)	13.0			2020	327	100	
				14.7	TAQ		1980	493	200	
			(70)					725	400	
									258/0°	
	5.25	P2	75 for 0.290 total	12.4					60/25°	
	6.50	P3	80 for 0.300 total	10.0						
	8.00	P4	78 for 0.310 total	9.2						
8.44	9.14									

Continued on Sheet 2.

REMARKS:

Trial Pit dug for Services
0.910 x 0.910 x 0.760

* Consolidation Results - see separate sheet.

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Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

GEO – RESEARCH LTD. B/H No. B104

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT No. of sheets 2

CLIENT

DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B SPT

CASING Size 0.150 to. 8.000 Size to.

Ground Level 66.10m
Chainage 6815

Commenced 30/11/71
Completed 2/12/71

Weather FINE

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2 m	Sample No.	Blow Count (N) LL/PL/PI	Legend 5	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 mm 2.40 / mm 40 µm 600 / mm 20 µm 210 / mm 10 µm 150 / mm 5 µm 75	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
	9.14						8 Results of any other Tests				
Hard red MARL with siltstone pieces (Keuper Waterstone) (ii)	9.50	P5	71 for 0.290 total		15.4						WS @ 9.700 SWL 9.500 WL - 9.500
											1/12/71
	11.00	P6	51 for 0.180 total		12.2						BH @ 11.000 Cas @ 8.000 SWL 8.210
											2/12/71 SWL 8.210
	12.20	P7	70 for 0.390 total		13.6						
	13.50	P8	85 for 0.240 total		14.7						
6.09	15.00 15.23	P9	95 for 0.230 total		14.0						OCB @ 15.230 Cas @ 8.000 SWL 5.700 BH Backfilled as casing withdrawn
			BOREHOLE		COMPLETE						

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B105

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B

CASING Size 0.150 to. 3.000 Size to. 3.000

Ground Level 65.70m
Chainage 6820
Commenced 27/11/71
Completed 30/11/71

Weather FINE/FREEZING FOG/FINE

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI 5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 mm; mm 40 µm 600; mm 20 µm 210; mm 10 µm 150; mm 5 µm 75	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
TOPSOIL 0.15	0.15									
Clay and stone FILL (i) 0.58	0.50	D1		28.7						
	0.73									
Hard to very stiff red/brown and grey weathered MARL with siltstone pieces (Keuper Waterstones) (i)	0.75	D2		21.2						
	1.50	U1	28.17.11. (CL) (97)	12.1						
				13.3	TAQ		2210	702	100	
				10.5			2200	965	200	
							2230	1566	400	
									538/0°	
	2.25	P1	3.5.6.11. (25)	9.5					50/37°	
	3.00	U2	(118)	14.2						
				16.0	TAQ		2170	358	100	
				21.5			2160	579	200	
							2160	530	400	
									245/0°	
	3.75	P2	9.11.14.19 (53)	15.4						
	4.50	U3	(100)	16.9						
				17.2	TAQ		2020	208	100	
				16.4			2070	307	200	
4.27	5.00						2040	465	400	
									163/0°	
									45/23°	
Hard red/brown and grey weathered MARL with siltstone pieces (Keuper Waterstones) (ii)	5.25	P3	117 for 0.220 total	8.8	SO$_3$W	11.0 pH 7.50				
	6.50	P4	78 for 0.260 total	13.2						
	8.00	P5	79 for 0.240 total	12.7						
4.14	9.14									

~~Continued on Sheet 2.~~

REMARKS:

Trial Pit dug for Services
0.910 x 0.910 x 0.760

Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD.

B/H No. B105

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1

SHEET No. 2 / No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B
Rotary Cored runs O/H
Legend 5.

CASING Size 0.150 to. Size 3.000 to.

Ground Level 65.70m
Chainage 6820
Commenced 27/11/71
Completed 30/11/71

Weather
FINE/FREEZING FOG/FINE

STRATUM. (Scale:20mm to 1 metre) 1: Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec: % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 / mm 2.40; mm 40 / µm 600; mm 20 / µm 210; mm 10 / µm 150; mm 5 / µm 75	TRIAXIAL TEST: Bulk Density Kg/m³; Dev. Stress kN/m²; Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
Hard red/brown and grey weathered MARL with siltstone pieces (Keuper Waterstones) (11)	9.14 / 9.50	P6	81 for 0.320 total	11.5				WS @ 9.750 SWL 9.750
	11.00	P7	85 for 0.340 total	14.7				29/11/71 BH @ 11.500 Cas @ 3.000 SWL 9.750
	12.50	P8	78 for 0.260 total	16.4				30/11/71 SWL 9.750
	14.00	P9	31.15.16. (CL) 79 for 0.310 total	13.7				
5.99	15.00 / 15.13	P10	80 for 0.130 total					OCB @ 15.130 Cas @ 3.000 SWL 5.080 WL 5.080 BH backfilled as casing withdrawn
			BOREHOLE	COMPLETE				

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B106

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 — SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 — No. of sheets 2

CLIENT DEPARTMENT OF THE ENVIRONMENT M.R.C.U. DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B — Rotary Cored runs O/H

CASING Size to. 0.150 Size to. 6.850

Ground Level 65.30m Chainage 6845

Commenced 26/11/71 Completed 30/11/71

Weather DULL/SHOWERS/WHITE FROST WITH FOG/DRY

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5 Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 mm 2.40 / mm 40 µm 600 / mm 20 µm 210 / mm 10 µm 150 / mm 5 µm 75 — 8 Results of any other Tests	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
Green turf and TOPSOIL 0.47	0.47										
											Dry
Stiff brown boulder clay FILL (i) 0.59	0.60	D1			28.7						
	1.06										
Very stiff marly* 0.23	1.29	D2	43.17.26. (CL)		14.0						
Stiff red and ** 0.23	1.37 1.52	D3				SO_3 S	0.02				
Stiff to hard red/brown and grey weathered friable MARL with siltstone layers (Keuper Waterstones) (i)		U1***	(36)		24.0			1990	164	100	
					22.5	TAQ		1990	265	200	
					20.8			1970	282	400	Dry
										119/0°	
										40/13°	
	2.90	D4			34.5						
	3.04	U2	(55)		11.3	SO_3W	8.90 pH 7.50	2160	653	100	
					10.1	TAQ		2200	975	200	
					11.4			2230	1002	400	
	3.51	P1	11.10.6.10 (37)		9.9					438/0°	
										140/28°	Water Added
	4.42	D5			12.3						
	4.57	U3***	(75)		12.9			1970	180	100	
					12.2	TAQ		1980	249	200	
					12.3			1860	438	400	
										145/0°	
	5.34	P2	84 for 0.270 total		14.6					35/27°	
	5.95	D6	32.15.17. (CL)		15.0						
	6.09	U4	(75)		12.8			2120	307	100	Damp
					10.9	TAQ		2050	440	200	27/11/71
									728	400	BH @ 6.550
										246/0°	Cas @ 3.040
	6.86	P3	88 for 0.230 total		12.9					50/24°	Water Nil
	7.47	D7			16.1						29/11/71
	7.62	U5	(38)		13.7			2190	299	100	SWL 3.040
					14.8	TAQ		2160	336	200	WL - 3.040
					12.6			2210	668	400	
										217/0°	
										70/19°	
7.62	8.99 9.14	D8			24.7						

Continued on Sheet 2.

REMARKS:

Trial Pit dug for Services 1.000 x 1.000 x 1.070

* SILTSTONE

** grey MARL

*** Consolidation Results - see separate sheet

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Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

GEO – RESEARCH LTD.

B/H No. B106

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENTBRIDGE SITE1

SHEET No. 2

No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B 2 SPT

CASING Size 0.150 to. 6.850 Size to.

Ground Level 65.30m

Chainage 6845

Commenced 26/11/71

Completed 30/11/71

Weather DULL/SHOWERS/WHITE FROST WITH FOG/DRY

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI	Legend 5	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 / mm 40 / mm 20 / mm 10 / mm 5 (2.40 / 600 μm / 210 μm / 150 μm / 75 μm)	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
Stiff to hard red/ brown and grey weathered friable MARL with siltstone layers (Keuper Waterstones)	9.14	U6	(75)		22.8			2070	133	100	
					23.8	TAQ		2060	98	200	
					22.4			2040	206	400	
										73/0°	
	9.91	P4	90 for 0.300 total		10.5						
(i) 1.38	10.52	D9	30.15.15. (CL)		16.7						
Hard red/brown and grey weathered friable MARL with siltstone layers (Keuper Waterstones) (ii)	10.66	P5	77 for 0.350 total		16.1						
											29/11/71
	12.19	P6	76 for 0.270 total		15.4						BH @ 12.190
											Cas @ 6.850
											SWL 5.480
	12.96	D10			18.5						30/11/71
											SWL 3.960
	13.71	P7	62 for 0.400 total		15.3						
	14.32	D11			21.4						
	15.06	P8	28.14.14. (CL)		11.6						
4.79	15.31		77 for 0.250 total								OCB @ 15.310
											Cas @ 6.850
											SWL 3.960
			BOREHOLE		COMPLETE						OWC SWL 3.960

REMARKS:

Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD.

B/H No. B107

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

LOCATIONASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1

SHEET No. 1

No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B
SPT
Rotary
Cored runs
O/H
Legend

CASING Size to. Size to.
0.150 6.850

Ground Level 65.10m
Chainage 6850
Commenced 30/11/71
Completed 2/12/71

Weather
DRY/VERY COLD WITH SHOWERS

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / mm 2.40: mm 40 / µm 600: mm 20 / µm 210: mm 10 / µm 150: mm 5 / µm 75 — 8 Results of any other Tests	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
Green TURF 0.50	0.50										
Stiff brown boulder clay FILL with band of concrete 0.44	0.94										
Original roadway with kerbstones, flags and tarmac, with * 0.58	1.52										
Hard red and grey weathered MARL with bands of grey siltstone (Keuper Waterstones)	1.67	D1 U1	(35)		13.4 15.5 18.2 18.2	TAQ		2140 2100 2100	390 446 670	100 200 400 251/0° 120/22°	
(i)	2.89 3.04	D2 U2**	(30)		13.9 17.1 16.8 16.8	TAQ		2080 2100 2100	504 609 839	100 200 400 325/0° 170/15°	
						SO_3W	8.25 pH 7.50				Dry
	4.41 4.57	D3 U3	(32)		19.4 16.9 17.8	TAQ		2100 2090	332 440	100 200	30/11/71
3.50	5.02				17.5			2050	659	400 239/0° 80/20°	BH @ 5.020 Cas @ 1.670 Water Nil
Stiff red and grey weathered MARL with bands of grey siltstone (Keuper Waterstones)	5.95	D4			21.1						1/12/71 SWL 4.260 Wl – 4.260
(i)	6.86	P1	63 for 0.380 total		14.0						
	7.62	U4	(75)		17.0 16.3 16.1	TAQ		2120 2110 2110	144 260 238	100 200 400 107/0°	
	8.38	P2	74 for 0.300 total		14.9						
4.12	9.14										

Continued on Sheet 2.

REMARKS:
Trial Pit dug for Services
1.250 x 1.250 x 1.520

* marl and stone FILL.

** Consolidation Results – see separate sheet.

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Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

GEO – RESEARCH LTD. B/H No. B107

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT 8 | Rotary Cored runs O/H | CASING Size 0.150 to 6.850 Size to.

Ground Level 65.10m
Chainage 6850
Commenced 30/11/71
Completed 2/12/71

Weather DRY/VERY COLD WITH SHOWERS

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8. mm 75 / mm 2.40; mm 40 / µm 600; mm 20 / µm 210; mm 10 / µm 150; mm 5 / µm 75	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Sheer/ϕ° kN/m²	WATER REMARKS 10.
Stiff red and grey weathered MARL with bands of grey siltstone (Keuper Waterstones) (i)	9.14	U5	(75)		20.6			2070	222	100	
					20.9	TAQ		2060	194	200	
					20.3			2070	321	400	
	9.91	P3	74 for 0.300 total		15.4					123/0°	
	10.66	P4	88 for 0.250 total		13.0						
	11.43	D5			21.7						
	12.19	P5	75 for 0.300 total		13.4						
3.35	12.49										1/12/71 EH @ 12.490 Cas @ 6.850 SWL 7.310
Hard red and grey weathered MARL with bands of grey siltstone (Keuper Waterstones) (ii)	13.71	P6	85 for 0.380 total		13.7						2/12/71 SWL 3.650
	14.48	D6			22.2						
	15.24	P7	91 for 0.250 total		16.4						
3.00	15.49										OCB @ 15.490 Cas @ 6.850 SWL 3.650 OWC SWL 3.040
			BOREHOLE		COMPLETE						

REMARKS:

Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B108

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT DEPARTMENT OF THE ENVIRONMENT M.R.C.U DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B — CASING Size 0.150 to 8.070 Size to

Ground Level 65.15m

Chainage 6865

Commenced 6/12/71

Completed 7/12/71

Weather DRY

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / mm 2.40 / mm 40 / µm 600 / mm 20 / µm 210 / mm 10 / µm 150 / mm 5 / µm 75 — 8 Results of any other Tests	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
Stiff brown boulder clay FILL (i) 2.24	0.05 2.29										Dry
Very stiff to hard red and grey weathered friable MARL with bands of siltstone (Keuper Waterstones) (i) 1.52	2.43 3.81	D1 U1** D2	42.26.16. (CI) (25)		22.7 21.9 22.5 22.5 12.3	TAQ SO_3S	0.03	1980 1990 2000	366 227 310	100 200 400 151/0°	
Hard red and grey weathered friable MARL with bands of siltstone (Keuper Waterstones) (ii) 5.33	3.96 5.34 6.25 7.01 7.78 8.53 9.14	U2** D3 P1 U3** P2 U4**	(30) 87 for 0.330 total 30.17.13. (CL) (75) 68 for 0.300 total (45)		15.4 15.4 14.2 11.1 12.1 15.2 13.9 16.1 13.8	TAQ SO_3W SO_3S ***	7.50 pH 7.50 0.02 *** Unsuitable material for TAQ	2020 2090 2060 2180 2220 2150	255 425 682 332 374 568	100 200 400 227/0° 30/26° 212/0° 90/16°	WS @ 4.870 SWL 4.870 WL - 4.870 6/12/71 BH @ 8.990 Cas @ 8.070 SWL 7.310 7/12/71 SWL 4.570

Continued on Sheet 2.

REMARKS:

Trial Pit dug for Services 1.000 x 1.000 x 1.520 & 0.300 x 0.300 x 1.820

* Green TURF.

** Consolidation Results - see separate sheet.

Sample	Depth m	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
U1	2.43		2.65	4%	Static	6	5	6	5				

For other symbols used see overleaf

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GEO – RESEARCH LTD. B/H No. B108

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B SPT

CASING Size 0.150 to 8.070 Size to

Ground Level 65.15m
Chainage 6865

Commenced 6/12/71

Completed 7/12/71

Weather : DRY

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	Legend 5.	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 / mm 2.40; mm 40 / µm 600; mm 20 / µm 210; mm 10 / µm 150; mm 5 / µm 75	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
	9.14										
Hard red and grey weathered friable MARL with bands of siltstone (Keuper Waterstones) (ii)	9.30	P3	64 for 0.350 total		15.3	SO_3S	0.03				
	10.05	U5**	30.16.14. (CL) (75)		14.4			2090	371	100	
					14.6	TAQ		2150	396	200	
					14.3			2140	748	400	
										253/0°	
	10.82	P4	60 for 0.330 total		13.1					100/19°	
	11.43	D4			17.1						
	12.19	P5	71 for 0.350 total		17.7	SO_3S	0.04				
	12.96	D5			26.0						
	13.71	P6	96 for 0.230 total		14.7						
6.20	14.95	P7	64 for 0.390 total		15.5	SO_3S	0.03				
	15.34		BOREHOLE COMPLETE								OCB @ 15.340 Cas @ 8.070 SWL 9.140 OWC SWL 3.040

REMARKS:
** Consolidation Results - see separate sheet

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B109

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT DEPARTMENT OF THE ENVIRONMENT M.R.C.U. DERBYSHIRE COUNTY SUB-UNIT

Percussion / SPT / U D B / Rotary / Cored runs / O/H

CASING Size 0.150 to. 6.850 Size to.

Ground Level 64.50m Chainage 6870

Commenced 2/12/71 Completed 4/12/71

Weather VERY COLD WITH SHOWERS/ DAMP WITH FOG/DRY

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI 5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / mm 2.40 / mm 40 / µm 600 / mm 20 / µm 210 / mm 10 / µm 150 / mm 5 / µm 75 — 8. Results of any other Tests	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
0.05	0.05									
Stiff brown stony clay FILL (i) 0.71	0.76									
CONCRETE - original roadway 0.30	1.06									
Compact black cinder and stone FILL (ii) 0.92	1.98									
Very stiff to hard red/brown and grey highly weathered MARL with bands of siltstone	2.13	U1	(40)	21.2			1950	128	100	
				19.7	TAQ		2000	241	200	
				22.3			1980	204	400	
									96/0°	
	2.89	D1		17.4					130/16°	Dry
(Keuper Waterstones) (ii)	3.04	U2	35.19.16. (CL/CI) (35)	16.7			2090	440	100	
				15.0	TAQ		2140	518	200	
								617	400	
									263/0°	
	4.42	D2		16.9						
	4.57	U3	(40)	16.2			2170	332	100	
				17.2	TAQ		2150	213	200	
				17.2			2160	332	400	
									146/0°	
	5.95	D3		16.0						
	6.09	U4	32.15.17. (CL) (40)	18.8	SO W	11.70 pH 7.50	2070	302	100	WS @ 6.090
				19.5	TAQ		2070	385	200	SWL 5.790
				21.2			2030	324	400	WL - 6.090
									169/0°	
	7.47	D4		18.0						
	7.62	U5	37.16.21. (CI) (60)	9.7			2190	379	100	
				11.9	TAQ		2030	991	200	
								1285	400	
									443/0°	
	8.38	P1	67 for 0.330 total	14.4					0/41°	
7.16	9.14									

Continued on Sheet 2.

REMARKS:

* Green TURF

Trial Pit dug for Services 0.920 x 1.000 x 0.710

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

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GEO – RESEARCH LTD. B/H No. B109

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B; SPT

CASING Size 0.150 to 6.850 Size to.

Ground Level 64.50m
Chainage 6870
Commenced 2/12/71
Completed 4/12/71

Weather VERY COLD WITH SHOWERS/ DAMP WITH FOG/DRY

Rotary: Cored runs; O/H

STRATUM. (Scale: 20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8. mm 75 / mm 2.40; mm 40 / µm 600; mm 20 / µm 210; mm 10 / µm 150; mm 5 / µm 75	TRIAXIAL TEST 8. Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
Very stiff to hard red/brown and grey highly weathered MARL with bands of siltstone (Keuper Waterstones) (ii)	9.14	U6	32.17.15. (CL) (60)		17.3			2130	260	100	
					15.8	TAQ		2150	343	200	
									496	400	
	9.91	P2	68 for 0.300 total		17.8					183/0° 60/18°	
	10.66	P3	76 for 0.300 total		17.9						3/12/71 BH @ 10.970 Cas @ 6.850 SWL 4.570
	11.43	D5			20.9						4/12/71 SWL 4.570
	12.19	P4	75 for 0.380 total		15.1						
	12.95	D6			13.0						
	13.71	P5	67 for 0.300 total		13.6						
	14.47	D7			8.7						
	15.01	P6	68 for 0.380 total		18.7						
6.25	15.39										OCB @ 15.390 Cas @ 6.850 SWL 4.570 OWC SWL 4.570
			BOREHOLE		COMPLETE						

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R.- Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B110

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion: U / D / B — SPT

CASING: Size 0.150 to 4.570 — Size to.

Ground Level 63.90m
Chainage 6900

Commenced 10/12/71

Completed 11/12/71

Weather: DRY

Rotary: Cored runs / O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2	Sample No.	Blow Count (N) LL/PL/PI 5 Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: mm 75 / mm 40 / mm 20 / mm 10 / mm 5 — μm 2.40 / 600 / 210 / 150 / 75	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/φ° kN/m²	WATER REMARKS 10.
Very stiff clay FILL (i) 1.16	1.21									
Stiff to very stiff red and grey MARL with bands of hard grey siltstone (Keuper Waterstones) (ii)	1.37	D1		25.6						
	1.52	U1**	(25)	25.8			1930	199	100	
				25.6	TAQ		1930	172	200	
				24.4			1950	228	400	
									100/0°	
	2.90	D2	49.23.26.	22.8						
	3.04	U2	(CI)	12.8			2210	638	100	
			(25)	12.6	TAQ		2210	1101	200	
				12.8			2200	1465	400	
					SO_3 W	5.50 pH 7.50			534/0°	WS @ 3.550
									35/40°	SWL 3.550
										WI - 3.550
	4.42	D3		12.9						
	4.57	U3	(29)	18.2			2120	161	100	
				17.1	TAQ		2160	263	200	
				18.7			2130	249	400	
									112/0°	
	5.95	D4	32.16.16.	22.6						
	6.09	U4	(CL) (40)	17.5			2110	130	100	
				20.0	TAQ		2120	172	200	10/12/71
				20.3			2080	231	400	BH @ 6.560
									89/0°	Cas @ 4.570
									40/10°	SWL 3.040
										11/12/71
										SWL 3.040
	7.47	D5		20.8						
	7.62	U5	(75)	14.9			2200	371	100	
				16.4	TAQ		2160	407	200	
				15.2			2190	418	400	
									199/0°	
	8.38	P1	9.9.9.23.	14.9					150/8°	
			(50)							
7.93	9.14									

Continued on Sheet 2.

REMARKS:
Trial Pit dug for Services
1.000 x 1.000 x 1.070

* Green TURF,

** Consolidation Results - see separate sheet.

Sample	Depth	M.C. % D.W.	C.B.R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

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B/H No. B110

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE1

SHEET No. 2

No. of sheets 2

CLIENT

DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Ground Level 63.90m

Chainage 6900

Commenced 10/12/71

Completed 11/12/71

Weather DRY

Percussion U D SPT B

Rotary Cored runs O/H

CASING Size to. Size to. 0.150 4.570

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5 Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / mm 2.40	mm 40 / µm 600	mm 20 / µm 210	mm 10 / µm 150	mm 5 / µm 75	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat U C T Pres Stren. kN/m² kN/m² Shear/4° kN/m²	WATER REMARKS 10
Stiff to very stiff red and grey MARL with bands of hard grey siltstone (11) (Keuper Waterstones) 1.11	9.14	U6	(75)		18.1							2140	147	100	
					17.3	TAQ						2140	130	200	
					19.2							2100	108	400	
			60 for 0.340 total											64/0°	
	9.91	P2			12.7										OCB @ 10.250
	10.25		32.16.16. (CL)												Cas @ 4.570
															SWL 3.040
															OWC SWL 3.040
			BOREHOLE		COMPLETE										

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B111

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT DEPARTMENT OF THE ENVIRONMENT M.R.C.U. DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B

CASING Size 0.150 to 7.780 Size to.

Ground Level 63.90m

Chainage 6895

Commenced 8/12/71

Completed 10/12/71

Weather DRY

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5 Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / 40 / 20 / 10 / 5 μm 600 / 210 / 150 / 75 mm 2.40	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U C T Pres. Strain kN/m² kN/m² Shear/4° kN/m²	WATER REMARKS 10
• 0.05	0.05										
Stiff brown BOULDER CLAY (i) 0.30	0.35										
TARMACADAM 0.10	0.45										
Reinforced ** 0.16	0.61										
Very stiff to hard red and grey friable MARL with bands of siltstone	1.37	D1			16.5						
(Keuper Waterstones)	1.52	U1	(25)		21.8			2010	219	100	
					21.4	TAQ		2000	366	200	
(ii)					21.1			2000	407	400	
										165/0°	
										50/18°	
	2.90	D2			14.1						
	3.04	U2	(38)		15.0			2180	344	100	
					18.1	TAQ		2120	363	200	
					13.3			2200	437	400	
										191/0°	
										130/10°	
						SO_3 W	8.20 pH 7.50				
	4.42	D3	34.16.18.		17.7						
	4.57	U3	(CL)		12.9			2150	363	100	WS @ 4.570
			(39)		14.2	TAQ		2160	568	200	SWL 3.960
									734	400	WL - 3.960
										278/0°	
										70/25°	
	5.95	D4			19.8						
	6.09	U4	(50)		12.2			2150	447	100	
					10.6	TAQ		2220	781	200	
					10.8			2200	1065	400	8/12/71
										382/0°	
	6.86	P1	67 for 0.310 total		11.0					60/33°	BH @ 6.700
											Cas @ 3.960
											SWL 3.960
											9/12/71
	7.62	U5	(75)		15.3			2130	194	100	SWL 2.430
					18.3	TAQ		2100	354	200	
					16.5			2130	363	400	
										152/0°	
			34.16.18.							40/17°	
	8.38	P2	(CL)		15.0						
			67 for 0.350 total								
8.53	9.14										

Continued on Sheet 2.

REMARKS:
Trial Pit dug for Services
1.060 x 1.060 x 0.600

• Green TURF.

•• CONCRETE – possible original road.

Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

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GEO – RESEARCH LTD.

B/H No. B111

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

SHEET No. 2

LOCATION ASHBOURNE ROAD ALLESTREE IMPROVEMENT BRIDGE SITE 1

No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion: SPT U D B

CASING: Size 0.150 to 7.780 Size to.

Ground Level 63.90m
Chainage 6895

Commenced 8/12/71

Completed 10/12/71

Weather: DRY

Rotary: Cored runs; O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (NI LL/PL/PI) 5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: mm 75 / 40 / 20 / 10 / 5; mm 2.40 / µm 600 / 210 / 150 / 75	TRIAXIAL TEST: Bulk Density Kg/m³ / Dev. Stress kN/m² / Lat. U.C.T. Pres. Siren. kN/m² kN/m² Shear/∠° kN/m²	8 Results of any other Tests	WATER REMARKS 10.
	9.14								
Very stiff to hard red and grey friable MARL with bands of siltstone (Keuper Waterstones) (ii)	10.66	P3	70 for 0.340 total	18.5					
	12.19	P4	74 for 0.330 total	16.0					
	13.71	P5	75 for 0.350 total	17.6					
	14.93	P6	28,16,12, (CL) 68 for 0.380 total	13.1					
6.17	15.31		BOREHOLE	COMPLETE					

9/12/71
BH @ 14.320
Cas @ 7.780
SWL 9.140
10/12/71
SWL 3.040
OCB @ 15.310
Cas @ 7.780
SWL 3.040
OWC SWL 3.040

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B112

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 — SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 — No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion: SPT U D B — CASING Size 0.150 to 11.100 Size to.

Ground Level 63.25m
Chainage 6920
Commenced 6/12/71
Completed 8/12/71

Weather: FINE/FROSTY

Rotary: Cored runs, O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / 40 / 20 / 10 / 5; μm 2.40 / 600 / 210 / 150 / 75 — 8 Results of any other Tests	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Siren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
Topsoil, clay, brick and stone FILL (i)	0.50	B1			28.7						
1.10	1.10										
Stiff to very stiff red/grey silty friable MARL with hard siltstone pieces (Keuper Waterstones) (i)	1.50	U1*	(35)		25.7			1950	172	100	
					25.4	TAQ		1990	238	200	
					24.5			1970	228	400	
										106/0°	
	2.25	D1	45.22.23. (CI)		23.5						
	3.00	U2	(37)		22.8	SO_3W	11.70 pH 7.50	2020	78	100	
					18.9	TAQ		2100	321	200	
					21.2			2030	280	400	
										113/0°	
	3.75	D2			20.3						
	4.50	U3*	30.15.15. (CL) (120)		15.5	TAQ		2110	266	100	WS @ 4.500
									402	200	SWL 2.960
										167/0°	W1 - 2.960
										40/25°	
	5.25	P1	77 for 0.300 total		13.4						
4.90	6.00										6/12/71
		D3			24.6						BH @ 6.000
Hard red/grey silty friable MARL with hard siltstone pieces (Keuper Waterstones) (ii)	6.75	P2	28.14.14. (CL) 89 for 0.300 total		9.9						Cas @ 4.250 SWL 2.960 7/12/71 SWL 2.750
	7.50	D4			18.2						
	8.25	P3	70 for 0.290 total		15.1						
	9.00	D5			16.4						
3.14	9.14										

Continued on Sheet 2.

REMARKS:
Trial Pit dug for Services
0.910 x 0.910 x 1.210

* Consolidation results – see separate sheet

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Sample	Depth m	M.C. % D.W.		C.B.R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
B1	0.50		2.65	8%	Static	4	3	4	4				

For other symbols used see overleaf

GEO – RESEARCH LTD. B/H No. B112

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion: U / D / B; SPT
Rotary: Cored runs; O/H
Legend 5

CASING: Size 0.150 to 11.100; Size to.

Ground Level 63.25m
Chainage 6920
Commenced 6/12/71
Completed 8/12/71

Weather FINE/FROSTY

STRATUM. (Scale: 20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: 75 mm / 2.40 mm; 40 mm / 600 µm; 20 mm / 210 µm; 10 mm / 150 µm; 5 mm / 75 µm	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
	9.14									
Hard red/grey silty friable MARL with hard siltstone pieces (Keuper Waterstones) (ii)	9.75	P4	78 for 0.280 total	13.3						7/12/71 BH @ 12.000
	10.50	D6	31.14.17. (CL)	18.9						Cas @ 5.680
	11.25	P5	81 for 0.280 total	18.3						SWL 5.910
	12.00	D7		21.6						8/12/71
	12.75	P6	110 for 0.200 total	16.1						SWL 2.760
	13.80	D8		21.1						
	14.75	P7	87 for 0.280 total	12.5						
5.89	15.03									OCB @ 15.030
			BOREHOLE	COMPLETE						Cas @ 11.100
										SWL 2.290
										OWC SWL 2.290

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B113

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1 No. of sheets 2

CLIENT

DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Ground Level 63.05m
Chainage 6925
Commenced 1/12/71
Completed 3/12/71

Weather: FROSTY

Percussion U D B; SPT; Rotary Cored runs O/H

CASING: Size 0.150 to 8.460; Size to.

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8. Results of any other Tests: mm 75 / mm 40 / µm 600 / mm 20 / µm 210 / mm 10 / µm 150 / mm 5 / µm 75	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Strength kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
Topsoil, clay, * 0.20	0.20									
Ash, brick, stone and clay FILL (i) 0.53	0.50 0.80	B1		39.8						
Very stiff red and grey weathered friable MARL with bands of hard siltstone	1.50	D1		24.2						
(Keuper Waterstones) (i)	2.00	U1	(74)	17.3 18.3 16.6	TAQ		2110 2100 2120	299 319 442	100 200 400 177/0°	
	2.75	P1	14,11,10,14 (49)	16.7						
	3.50	U2	(94)	14.9 11.1	TAQ		2080 2040	230 432 634	100 200 400 216/0° 20/26°	
	4.25	P2	64 for 0.440 total	13.8						
	5.00	U3	(112)	20.1 17.2 18.2	SO_3 W	9.60 pH 7.50	2090 2130 2130	318 368 435	100 200 400 187/0° 110/12°	
4.70	5.50									
Hard red and grey weathered friable MARL with bands of hard siltstone (Keuper Waterstones) (ii)	5.75	P3	32,14,18, (CL) 69 for 0.430 total	12.9						WS @ 5.750 SWL 4.800 WL – 4.800 SWL 2.500
	7.25	P4	97 for 0.290 total	10.3						
	8.00	D2		21.6						
	8.75	P5	106 for 0.230 total	14.3						
3.50	9.00									

Continued on Sheet 2.

REMARKS:
Trial Pit dug for Services
0.900 x 1.200 x 0.830

* brick and stone FILL

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Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

GEO – RESEARCH LTD. B/H No. B113

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1. No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B / SPT / Rotary Cored runs O/H

CASING Size 0.150 to 8.460 Size to.

Ground Level 63.05m
Chainage 6925
Commenced 1/12/71
Completed 3/12/71

Weather FROSTY

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	Legend 5	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: 75mm / 2.40mm	40mm / 600µm	20mm / 210µm	10mm / 150µm	5mm / 75µm	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Ln. U.C.T. Pres. Strength kN/m² / Shear/∅° kN/m²	WATER REMARKS 10.
	9.00														
Hard red and grey weathered friable MARL with bands of hard siltstone (Keuper Waterstones) (ii)	9.50	D3			18.0										2/12/71 BH @ 10.000 Cas @ 8.460 SWL 7.270
	10.25	P6	84 for 0.300 total		6.1										3/12/71 SWL 2.500
	11.00	D4													
	11.75	P7	100 for 0.200 total		12.2										
	12.50	D5			20.5										
	13.25	P8	31,16,15, (CL) 101 for 0.300 total		13.4										
	14.00	D6													
6.00	14.75	P9	87 for 0.240 total		13.3										OCB @ 15.000 Cas @ 8.460 SWL 4.100
	15.00		BOREHOLE		COMPLETE										BH Backfilled as casing withdrawn

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B114

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1. No. of sheets 2

CLIENT DEPARTMENT OF THE ENVIRONMENT M.R.C.U. DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B — Rotary Cored runs O/H — Legend

CASING Size to. Size to. 0.150 7.040

Ground Level 62.60m Chainage 6950

Commenced 9/12/71 Completed 10/12/71

Weather FINE

STRATUM. (Scale: 20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 75mm 40mm 20mm 10mm 5mm / 2.40 600μm 210μm 150μm 75μm	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
Topsoil, brick, clay, stone and gravel FILL (i) 0.75	0.50	B1		21.4		8 Results of any other Tests				
	0.75									
TOPSOIL 0.45	1.20									
Firm to stiff red and grey weathered friable MARL with hard siltstone bands (Keuper Waterstones) (i)	1.50	U1	58.20.38. (CR) (17)	26.4			1960	114	100	
				26.5	TAQ		1940	147	200	
				26.1			1970	166	400	
									61/0°	
	2.25	D1		23.3					40/5°	
	3.00	U2	35.17.18. (CL/CI) (73)	14.4			2180	557	100	
				16.4	TAQ		2140	402	200	
				14.0			2200	942	400	
									317/0°	
	3.75	P1	7.7.7.8. (29)	15.6	SO_3 W	20.60 pH 7.50				WS @ 3.950
										SWL 3.800
										W1 - 3.800
	4.50	U3*	(59)	17.1			2100	250	100	
				16.0	TAQ		2060	218	200	WS @ 4.700
				16.0			2060	385	400	SWL 2.380
									142/0°	
	5.25	P2	75 for 0.310 total	15.4						
	6.00	D2		20.9						
	6.75	P3	29.16.13. (CL) 88 for 0.250 total	10.7						
6.30	7.50	D3		22.7						9/12/71
										BH @ 7.500
										Cas @ 5.800
										SWL 2.380
Hard red and grey weathered friable MARL with hard siltstone bands (Keuper Waterstones) (i) 1.50	8.25	P4	99 for 0.290 total	12.9						10/12/71
										SWL 2.380
	9.00	D4	31.16.15. (CL)	20.0						

Continued on Sheet 2.

REMARKS:

Trial Pit dug for Services 1.060 x 0.910 x 1.210

* Consolidation Results - see separate sheet.

Sample	Depth m	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
B1	0.50		2.65	3%	Static	4	4	4	4				

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GEO – RESEARCH LTD.

B/H No. B114

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1.

SHEET No. 2

No. of sheets 2

CLIENT

DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B

CASING Size to. Size to.
0.150 7.040

Ground Level 62.60m
Chainage 6950

Commenced 9/12/71

Completed 10/12/71

Weather FINE

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/Pi	5 Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: mm 75 / mm 2.40; mm 40 / µm 600; mm 20 / µm 210; mm 10 / µm 150; mm 5 / µm 75	TRIAXIAL TEST: Bulk Density Kg/m³; Dev. Stress kN/m²; Lat. U.C.T. Pres. Stren. kN/m² Shear/ϕ° kN/m²	8 Results of any other Tests	WATER REMARKS 10.
Hard red and grey weathered friable MARL with hard siltstone bands (Keuper Waterstones) (1) 1.06	9.00 9.75 10.06	P5	72 for 0.310 total		13.7					OCB @ 10.060 Cas @ 7.040 SWL 2.380 OWC SWL 2.380
			BOREHOLE		COMPLETE					

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B115

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 — SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1. — No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT 8 — Rotary: Cored runs, O/H — Legend 5

CASING: Size 0.150 to 8.000 — Size to.

Ground Level 62.55m
Chainage 6945
Commenced 2/12/71
Completed 6/12/71

Weather FINE/RAIN/FOG

STRATUM. (Scale: 20mm to 1 metre)

1. Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: mm 75 / mm 40 / mm 20 / mm 10 / mm 5 / μm 600 / μm 210 / μm 150 / μm 75 / 2.40	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Strength kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10
TOPSOIL 0.20	0.20					8 Results of any other Tests				
Marl and clay FILL (i) 0.50	0.50 0.70	D1		12.1						Dry
Original TOPSOIL 0.33	0.85 1.03	D2	35,18,17. (CL)	21.4						
Firm red marly CLAY 0.37	1.05 1.40	D3		24.3						
Firm to very stiff red silty MARL (Keuper Waterstones) (i)	1.50	U1	(27)	20.5 20.1 20.4	TAQ		2060 2060 2050	344 376 324	100 200 400 174/0°	
	2.25	D4		27.0	SO_3^W	15.10 pH 7.50				
	3.00	U2	(29)	22.6 24.5 27.5	TAQ		2030 2000 2020	101 91 145	100 200 400 56/0°	
	3.75	D5		22.0						
	4.50	U3	(34)	18.1 19.5 18.0	TAQ		2050 2040 2110	114 147 230	100 200 400 82/0° 30/10°	WS @ 4.500 SWL 2.380 WL - 2.380
	5.25	D6	30,16,14. (CL)	11.1						
	6.00	U4	34,20,14. (CL) (73)	19.9 20.6 20.0	TAQ		2090 2060 2060	137 128 179	100 200 400 74/0°	
5.10	6.50									
Hard red/brown and grey weathered MARL (Keuper Waterstones) (ii)	6.75	P1	69 for 0.330 total	10.5						
	7.75	P2	75 for 0.280 total	14.9						
2.50	9.00									

Continued on Sheet 2.

REMARKS:

Trial Pit dug for Services
1.000 x 1.100 x 1.400

Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B115

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1. No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B

CASING Size 0.150 to. 8.000 Size to.

Ground Level 62.55m
Chainage 6945
Commenced 2/12/71
Completed 6/12/71

Weather FINE/RAIN/FOG

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2.	Sample No.	Blow Count (N) LL/PL/PI	5 Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 / mm 2.40; mm 40 / µm 600; mm 20 / µm 210; mm 10 / µm 150; mm 5 / µm 75	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/2θ° kN/m²	WATER REMARKS 10.
Hard red/brown and grey weathered MARL (Keuper Waterstones) (ii)	9.00										
	9.25	P3	82 for 0.260 total		12.2						3/12/71 BH @ 10.750 Cas @ 8.000 SWL 2.260 6/12/71 SWL 2.260
	10.75	P4	97 for 0.240 total		15.8						
	12.25	P5	113 for 0.210 total		12.0						
	13.50	P6	103 for 0.230 total		14.0						
6.10	15.00 15.10	P7	80 for 0.100 total		10.9						OCB @ 15.100 Cas @ 8.000 SWL 2.330 OWC SWL 2.330
			BOREHOLE		COMPLETE						

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD.

B/H No. B116

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1.

SHEET No. 1

No. of sheets 2

CLIENT

DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B

CASING Size 0.150 to. 14.000 Size to.

Ground Level 62.05m

Chainage 6975

Commenced 8/11/71

Completed 13/11/71

Weather DRY AND FROSTY/FINE

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI	Legend 5	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 / mm 40 / μm 600 / mm 20 / μm 210 / mm 10 / μm 150 / mm 5 / μm 75 / 2.40	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10
Firm soil, clay, marl and brick FILL	0.30	D1			26.1						
	0.50	U1*	52.32.20. (MH/OH) (30)		26.3			1780	118	100	
(i)					28.7	TAQ		1770	144	200	
					31.0			1690	154	400	
										69/0°	
	1.25	D2			19.6					50/5°	
1.70	1.70										
Stiff red and grey silty MARL with sandstone fragments	1.90	D3			22.9	SO_3 S	0.01				
	2.00	U2*	(34)		23.8			2030	166	100	
					19.2	TAQ		2120	244	200	
(Keuper Waterstones)										103/0°	
	2.75	D4			28.2					30/17°	
(i)											
						SO_3 W	9.60 pH 7.50				
	3.50	U3*	35.19.16. (CL/CI) (34)		22.1			2010	131	100	
					23.3	TAQ		1950	86	200	
					20.2			2060	274	400	
	4.00	B1			25.1					82/0°	
	4.25	D5			22.0						
											WS @ 4.500
											SWL 3.340
											WL – 3.340
	5.00	U4*	(38)		19.6	SO S	0.01	2050	177	100	8/11/71
					17.3	TAQ		2020	285	200	BH @ 5.000
					19.7			2050	296	400	Cas @ 1.500
										126/0°	SWL 3.340
	5.75	D6			21.8					50/13°	9/11/71
											SWL 2.280
	6.50	U5*	26.14.12. (CL) (112)		20.4			2110	242	100	
					18.8	TAQ		2120	192	200	
					17.8			2090	328	400	
										127/0°	
	7.25	P1	11.23.37.42 (113)		10.3						
	7.95	B2			18.6	SO_3 S	0.02				
	8.75	P2	14.16.14.16 (60)		15.1						
7.51	9.21										

Continued on Sheet 2.

REMARKS:

* Consolidation Results - see separate sheet.

Sample	Depth m	M.C. % D.W.	S.G.	Air Voids	Type	C.B.R. TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
U1	0.50		2.65	4%	Dynamic	6	7	5	7				

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GEO – RESEARCH LTD. B/H No. B116

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1. No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B; SPT; Rotary Cored runs; O/H

CASING Size 0.150 to 14.000 Size to

Ground Level 62.05m
Chainage 6975
Commenced 8/11/71
Completed 13/11/71

Weather DRY AND FROSTY/FINE

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/% kN/m²	WATER REMARKS 10.
	9.21						mm 75 mm 40 mm 20 mm 10 mm 5 / mm 2.40 μm 600 μm 210 μm 150 μm 75				
Stiff red and grey silty MARL with sandstone fragments (Keuper Waterstones) (i)	9.50	U6*	29.14.15. (CL) (68)		18.4			2150	136	100	
					18.1	TAQ		2140	233	200	
					17.8			2160	360	400	
										122/0°	
	10.25	P3	16.23.37.52 (128)		15.3					20/17°	
1.79	11.00										9/11/71 BH @ 11.000 Cas @ 6.300 SWL 3.400
Hard red and grey silty MARL with sandstone fragments (Keuper Waterstones) (ii)											11/11/71 SWL 2.200
	11.75	P4	29.32.52.46 (159)		11.0						11/11/71 BH @ 12.200 Cas @ 10.000 SWL 2.200
	12.40	D7	37.19.18. (CI)		22.9						12/11/71 SWL 2.200
	13.25	P5	15.18.29.34 (96)		18.2						12/11/71 BH @ 13.700 Cas @ 13.000 SWL 3.100
	14.00	D8			23.6	SO_3	0.02				13/11/71 SWL 2.000
	14.10	P6	34.45.55.60 (194)		7.3						
3.55	14.55										OCB @ 14.550 Cas @ 14.000 SWL 2.000 BH Backfilled as casing withdrawn
			BOREHOLE		COMPLETE						

REMARKS:
* Consolidation Results - see separate sheet

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B117

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT

DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B / SPT / Rotary Cored runs / O/H

CASING Size 0.150 to. Size 12.000 to.

Ground Level 62.20m
Chainage 6975
Commenced 7/12/71
Completed 8/12/71

Weather FINE

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth	Sample No.	Blow Count (N) LL/PL/PI	Legend 5	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: 75 mm / 40 mm / 20 mm / 10 mm / 5 mm; 2.40 mm / 600 µm / 210 µm / 150 µm / 75 µm	TRIAXIAL TEST: Bulk Density Kg/m³ / Dev. Stress kN/m² / Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	8 Results of any other Tests	WATER / REMARKS 10.
0.06	0.06									
Marl and clay FILL (i) 0.74	0.50	D1	31.16.15. (CL)		15.0					
	0.80									
Ash and clinker FILL (iii) 1.20	1.25	D2			33.1					
	2.00	D3			20.6					
Stiff to very stiff red/brown and grey friable silty MARL (Keuper Waterstones) (i)	2.50	U1	(27)		24.9			2000 / 1940 / 1960	152 / 177 / 125	100 / 200 / 400 76/0°
	3.25	D4			25.3					
	4.00	U2	30.15.15. (CL) (38)		16.0 / 24.0 / 25.3	TAQ				
						SO_3W	18.5 pH 7.50	2150 / 2190	269 / 354 / 496	100 / 200 / 400 187/0° 70/17°
3.00	4.75	D5			14.5 / 18.5	TAQ				WS @ 4.450 SWL 3.950 Wl - 3.950
	5.00									
Hard red/brown and grey friable silty MARL (Keuper Waterstones) (ii)	5.50	U3	(38)		17.7			2110	418	100
					19.5 / 19.6	TAQ		2080 / 2020	399 / 521	200 / 400 223/0°
	6.25	D6			20.2					
	7.00	P1	69 for 0.370 total		13.7					
	8.50	P2	70 for 0.380 total		32.0					7/12/71 BH @ 9.000 Cas @ 7.500 SWL 2.560 **
4.00	9.00									

Continued on Sheet 2.

REMARKS:
Trial Pit dug for Services
0.800 x 1.100 x 2.000

* TOPSOIL

** 8/12/71 SWL 2.560

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Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

GEO – RESEARCH LTD. B/H No. B117

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT BRIDGE SITE 1 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion: SPT U D B

CASING: Size 0.150 to 12.000 Size to.

Ground Level 62.20m
Chainage 6975
Commenced 7/12/71
Completed 8/12/71

Weather: FINE

Rotary: Cored runs; O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5 Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: mm 75 / mm 40 / mm 20 / mm 10 / mm 5 / μm 2.40 / μm 600 / μm 210 / μm 150 / μm 75	TRIAXIAL TEST: Bulk Density Kg/m³ / Dev. Stress kN/m² / Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/φ° kN/m²	WATER REMARKS 10.
	9.00						8 Results of any other Tests		
Hard red/brown and grey friable silty MARL (Keuper Waterstones) (ii)	10.20	P3	78 for 0.310 total		12.7				
	11.70	P4	31.14.17. (CL) 83 for 0.280 total		10.1				
	13.20	P5	73 for 0.310 total		18.5				
4.80	13.80								OCB @ 13.800 Cas @ 12.000 SWL 2.280 OWC SWL 2.280
			BOREHOLE		COMPLETE				

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

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GEO – RESEARCH LTD. B/H No. B118

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1. No. of sheets 2

CLIENT DEPARTMENT OF THE ENVIRONMENT M.R.C.U. DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B SPT — CASING Size 0.150 to 10.080 Size to.

Ground Level 60.00m

Chainage 7055

Commenced 15/11/71

Completed 16/11/71

Weather FINE/HEAVY SHOWERS

Rotary Cored runs O/H

STRATUM. (Scale: 20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: 75 mm / 2.40 mm; 40 mm / 600 µm; 20 mm / 210 µm; 10 mm / 150 µm; 5 mm / 75 µm — 8 Results of any other Tests	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Suct. kN/m² kN/m² Shear/φ° kN/m²	WATER REMARKS 10.
Firm to very stiff light brown/orange/ yellow mottled silty CLAY with pebbles (i)	0.50	U1	35.16.19. (CL/CI) (32)		22.8			2030	74	100	
					21.9	TAQ		2030	125	200	
					22.0			2030	111	400	
										52/0°	
	1.25	D1			15.3						
	2.00	U2*	(38)		14.0			2160	236	100	
2.35	2.35				14.6	TAQ		2150	351	200	
					15.1			2160	241	400	
										171/0°	
Compact yellow/brown poorly graded silty SAND with gravel (River Terrace Deposit) (iii)	2.75	D2			16.4	SO_3S	0.01				
						SO_3W	9.60 pH 7.50				
	3.50	P1**	21.18.3. (SC/SF) 3.3.4.4. (14)		9.0		– – – – – 100 100 43 39 30				WS @ 3.400 SWL 3.000 WL – 3.000
2.05	4.40										
Loose brown sandy GRAVEL with sandy clay and vegetation (River Terrace Deposit) (ii)	4.50	B1									
	5.00	P2	1.–.2.4. (7)								
	6.00	B2			6.1	SO_3S	0.01				
1.80	6.20										
Stiff highly weathered red/brown and grey MARL (Keuper Marl) (i)	6.50	U3*	30.14.16. (CL) (54)		19.3			2150	187	100	
					20.7	TAQ		2150	202	200	
					20.1			2140	192	400	
										97/0°	
	7.25	P3	7.7.8.16. (38)		14.0						
											15/11/71 BH @ 7.700 Cas @ 7.370 SWL 4.770
	8.00	U4*	(112)		21.6			2090	136	100	
					23.0	TAQ		2070	163	200	
					24.1			2180	172	400	
										79/0°	16/11/71 SWL 2.730
	8.75	P4	83 for 0.380 total		10.7	SO_3S	0.02			50/5°	
2.94	9.14										

~~Continued on Sheet 2.~~

REMARKS:

* Consolidation Results – see separate sheet

** PI : A.S.T.M. type grooving tool used

Sample	Depth m	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
U1	0.50		2.65	5%	Static	2	2	2	1				

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GEO – RESEARCH LTD. B/H No. B118

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1. No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B

CASING Size 0.150 to 10.080 Size to

Ground Level 60.00m
Chainage 7055
Commenced 15/11/71
Completed 16/11/71

Weather FINE/HEAVY SHOWERS

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: 75mm	40mm	20mm	10mm	5mm	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/χ° kN/m²	WATER REMARKS 10.
	9.14					2.40	600 μm	210 μm	150 μm	75 μm				
Stiff highly weathered red/brown and grey MARL (Keuper Marl)	9.50	D3	32.21.11. (CL)	21.9										
(1)	10.25	P5	66 for 0.440 total	15.6										
	11.00	U5*	(130)	23.6							1960	169	100	
				24.6	TAQ						1970	219	200	
				23.7							1970	216	400	
	11.60	P6	66 for 0.380 total	19.1	SO_3S	0.03							101/0°	
2.86	12.00													OCB @ 12.000 Cas @ 10.080 SWL 2.370 OWC SWL 2.370
			BOREHOLE		COMPLETE									

REMARKS:

* Consolidation Results - see separate sheet.

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B119

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1. No. of sheets 2

CLIENT DEPARTMENT OF THE ENVIRONMENT M.R.C.U. DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT 8 Rotary Cored runs O/H

CASING Size 0.150 to. Size 10.500 to.

Ground Level 60.05m Chainage 7055

Commenced 16/11/71 Completed 18/11/71

Weather HEAVY RAIN & SNOW SHOWER

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI 5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: mm 75 / mm 40 / mm 20 / mm 10 / mm 5 / μm 600 / μm 210 / μm 150 / μm 75 / mm 2.40 — 8 Results of any other Tests	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10
TOPSOIL 0.46	0.46									
Firm grey/brown silty CLAY with occasional pebbles 0.44	0.50	U1	(37)	18.8	TAQ	(102mm result)	2210	108	100	
	0.90							117	200	
								129	400	
									59/0°	
Very stiff brown sandy silty CLAY with occasional pebbles (i)	1.25	D1		16.4						
	2.00	U2	21.11.10. (CL) (85)	13.6			2200	198	100	
				14.1	TAQ		2200	342	200	
				13.6			2250	551	400	
									182/0°	
									20/24°	
	2.75	P1	1.2.2.3. (8)	18.6	SO_3W	6.17 pH 7.50				
	3.50	U3	(35)	16.9			2160	449	100	
				17.5	TAQ		2170	299	200	
				16.8			2120	418	400	
									194/0°	WS @ 4.000
	4.25	P2	9.13.10.10. (42)	8.6		- 100 94 72 52 43 30 17 15 11				SWL 2.830
4.10	5.00									W1 - 2.830
Well graded red/brown sandy GRAVEL*(River Terrace Deposit) 0.60	5.60	B1		8.5		100 84 60 29 18 13 9 6 5 4				
Very stiff highly weathered red/brown layered MARL with siltstone layers (Keuper Marl) (i)	5.75	U4	29.17.12. (CL) (126)	14.6			1980	135	100	
				16.9	TAQ		2050	258	200	
				12.6			2070	540	400	
									156/0°	
	6.50	P3	3.4.5.6. (18)	17.7					0/23°	
	7.25	U5	(74)	16.0			2140	302	100	
				18.9	TAQ		2100	208	200	
				18.1			2160	410	400	
									153/0°	
	8.00	P4	6.9.8.8. (31)	14.0						17/11/71
										BH @ 9.200
										Cas @ 8.660
	8.75	U6	32.15.17. (CL) (107)	14.3			2120	339	100	SWL 3.730
				12.7	TAQ		2060	319	200	18/11/71
3.60	9.20			16.7			2130	329	400	SWL 2.890
									165/0°	

Continued on Sheet 2.

REMARKS:

* (ii)

Sample	Depth m	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
U1	0.50		2.65	8%	Static	2	2	2	2				

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GEO – RESEARCH LTD.

B/H No. B119

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1

SHEET No. 2

No. of sheets 2

CLIENT

DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B / SPT / Rotary: Cored runs, O/H

CASING: Size 0.150 to. 10.500 Size to.

Ground Level 60.05m

Chainage 7055

Commenced 16/11/71

Completed 18/11/71

Weather: HEAVY RAIN & SHOW SHOWERS

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: 75mm / 40mm / 20mm / 10mm / 5mm; 2.40mm / 600µm / 210µm / 150µm / 75µm	TRIAXIAL TEST: Bulk Density Kg/m³ / Dev. Stress kN/m² / Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
Hard red/brown layered MARL with siltstone layers (Keuper Marl) (i)	9.20								
	9.50	P5	12,12,20,21 (65)		18.7				
	11.00	P6	7,11,8,11, (37)		13.2				
	11.55	P7	11,15,18,23 (67)		14.9				
2.80	12.00		BOREHOLE		COMPLETE		8 Results of any other Tests		OCB @ 12.000 Cas @ 10.500 SWL 2.470 OWC SWL 2.470

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B120

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D SPT B — CASING Size 0.150 to. 10.000 Size to.

Ground Level 58.60m
Chainage 7130
Commenced 22/11/71
Completed 23/11/71

Weather FROSTY/SNOW SHOWERS

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2 m	Sample No.	Blow Count (N) LL/PL/PI	5 Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / mm 40 / mm 20 / mm 10 / mm 5 — mm 2.40 / µm 600 / µm 210 / µm 150 / µm 75 — 8 Results of any other Tests	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/ϕ° kN/m²	WATER REMARKS 10.
TOPSOIL											
0.70	0.50	U1	(32)		25.8			1980	56	100	
	0.70				24.0	TAQ		2050	67	200	
					24.1			2000	62	400	
										31/0°	
Dense well graded claybound SAND and GRAVEL	1.25	D1			16.0	SO_3 W	13.03 pH 7.50				WS @ 1.420
(River Terrace Deposit)											SWL 1.260
(ii)											Wl - 1.260
	2.00	P1	8.10.8.8. (34)		6.6		- 100 72 55 43 / 35 26 20 18 14				
	2.50	B1			5.8		100 96 61 43 36 / 31 22 11 9 7				
	3.50	P2	11.11.13.15 (50)		7.0		- 100 75 58 45 / 37 27 16 14 11				WS @ 3.700
											SWL 3.700
	4.50	B2			2.7		100 70 41 26 21 / 17 9 3 2 2				
4.10	4.80										
Stiff to very stiff highly weathered red/ brown and grey/green silty MARL with siltstone pieces	5.00	P3	6.4.11.8. (29)		16.8						
	5.75	U2	(38)		15.2			2160	131	100	
					18.1	TAQ		2090	162	200	
(Keuper Marl)									199	400	
(i)										82/0°	
	6.50	D2			22.9					50/7°	
											22/11/71
											BH @ 7.000
	7.25	U3	(62)		19.3			2180	241	100	Cas @ 6.930
					23.7	TAQ		2170	245	200	SWL 3.700
					17.7			2160	466	400	
										159/0°	23/11/71
	8.00	P4	6.6.8.9. (29)		19.3					80/12°	SWL 5.100
	8.75	U4	(180)		17.9			2140	442	100	
					17.1	TAQ		2160	542	200	
4.40	9.20				18.5			2120	643	400	

Continued on Sheet 2.

REMARKS:

• 130/17°

Sample	Depth m	M.C. % D.W.	S.G.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.
U1	0.50		2.65	7%	Static	4	4	3	3				
U2	5.75		2.65	6%	Static	2	2	1	1				

For other symbols used see overleaf

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GEO – RESEARCH LTD. B/H No. B120

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 — SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1. — No. of sheets 2

CLIENT

DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion: U / D / B — SPT

Rotary: Cored runs — O/H

CASING: Size 0.150 to. 10.000 Size to.

Ground Level 58.60m
Chainage 7130
Commenced 22/11/71
Completed 23/11/71

Weather: FROSTY/SNOW SHOWERS

STRATUM. (Scale: 20mm to 1 metre) 1. Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI	Legend 5	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: mm 75 / mm 2.40; mm 40 / µm 600; mm 20 / µm 210; mm 10 / µm 150; mm 5 / µm 75	TRIAXIAL TEST: Bulk Density Kg/m³; Dev. Stress kN/m²; Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	8 Results of any other Tests	WATER REMARKS 10.
	9.20									
Hard red/brown and grey/green silty MARL with siltstone pieces	9.50	P5	91 for 0.400 total		17.0					
(Keuper Marl)	10.25	D3			20.6					
(i)	10.50	P6	9.9.13.13. (44)		17.7					
	11.00	D4								
	11.55	P7	69 for 0.400 total		16.6					
2.80	12.00									
			BOREHOLE		COMPLETE					OCB @ 12.000 Cas @ 10.000 SWL 5.900 BH Backfilled a casing withdraw

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B121

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 — SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1 — No. of sheets 2

CLIENT

DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion: U / D / SPT / B — Rotary: Cored runs / O/H

CASING: Size 0.150 to 10.000 — Size to

Ground Level 58.55m
Chainage 7130
Commenced 24/11/71
Completed 26/11/71

Weather: FROSTY/FINE

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI 5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: 75mm / 40mm / 20mm / 10mm / 5mm; 2.40mm / 600µm / 210µm / 150µm / 75µm — 8. Results of any other Tests	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
TOPSOIL										
0.70	0.50 0.70	U1	(100)	11.0	TAQ		1910	465 642	100 200	
Firm grey and red marly CLAY with sand and gravel (i)	1.25	P1	4.4.4.4. (16)	11.9					277/0° 100/26°	
1.30	2.00	P2	8.11.8.13	6.3		- - 100 60 46				
Dense coarse poorly graded claybound SAND and GRAVEL (River Terrace Deposit) (ii)			(40)			38 28 22 20 16				Water Added
	2.75	B1		4.6	SO_3S	0.01 100 82 55 36 30 26 22 16 15 13				WS @ 3.200 SWL 2.100
	3.50	P3	64 for 0.430 total							
	4.25	B2		4.2		100 96 64 39 26 17 9 4 3 2				
3.10	5.00 5.10	P4	5.8.8.10. (31)	16.9						
Stiff to very stiff highly weathered red/ brown MARL with siltstone pieces (Keuper Marl) (i)	5.75	U2*	32.16.16. (CL) (62)	19.1 18.9	TAQ		2120 2120	230 191	100 200 105/0° 20/27°	
	6.50	P5	4.5.7.9. (25)	17.3	SO_3S	0.03				
	7.25	U3	(72)	13.7 13.6 13.5	TAQ		2180 2200 2230	346 526 820	100 200 400 282/0° 50/37°	
	8.00	P6	63 for 0.400 total	14.6						25/11/71 BH @ 8.500 Cas @ 8.230 SWL 8.500 26/11/71 SWL 5.320
3.40	8.50									
Continued on Sheet 2.										

REMARKS:

* Consolidation Results - see separate sheet.

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD.

B/H No. B121

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT, BRIDGE SITE 1.

SHEET No. 2

No. of sheets 2

CLIENT

DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U / D / SPT / 8

CASING Size to. Size to. 0.150 10.000

Ground Level 58.55m

Chainage 7130

Commenced 24/11/71

Completed 26/11/71

Weather FROSTY/FINE

Rotary Cored runs / O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	5 Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: mm 75 mm / mm 40 µm 2.40 / mm 20 µm 600 / mm 10 µm 210 / mm 5 µm 150 / µm 75 — 8 Results of any other Tests	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/x° kN/m²	WATER REMARKS 10.
	8.50										
Stiff to very stiff highly weathered red/ brown MARL with siltstone pieces	8.75	U4*	31.15.16. (CL) (116)		24.3			1990	162	100	
					25.1	TAQ		2000	167	200	
					27.0			1980	142	400	
										79/0°	
(Keuper Marl)	9.50	P7	66 for 0.380 total		19.9	SO_3S	0.05				
(i)											
	10.25	U5*	(187)		20.9			2060	319	100	
					19.9	TAQ		2070	442	200	
2.21	10.71				20.2			2070	528	400	
										215/0° 80/19°	
Hard red/brown MARL with siltstone pieces	11.00	P8	85 for 0.280 total		15.9						
(Keuper Marl)											
(ii)	11.80	P9	81 for 0.310 total		11.4	SO_3S	0.03				
1.40	12.11										
			BOREHOLE		COMPLETE						OCB @ 12.110 Cas @ 10.000 SWL 1.980 BH Backfilled a casing withdra

REMARKS:

* Consolidation Results - see separate sheet.

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B122

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 — SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT ROAD SITE 3 — No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Ground Level 56.05m
Chainage 7482
Commenced 12/11/71
Completed 13/11/71

Weather DRY

Percussion U D SPT B — Rotary Cored runs O/H — Legend 5

CASING: Size 0.150 to 7.540 Size to.

STRATUM. (Scale: 20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 / mm 2.40; mm 40 / μm 600; mm 20 / μm 210; mm 10 / μm 150; mm 5 / μm 75	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
Green TURF and* 0.15	0.15									Dry
Stiff mottled brown and grey CLAY with occasional pebbles and traces of coal and sand layers	0.91	B1		27.1						
(Fill)	1.37	D1		66.8						
	1.52	U1	49.22.27.	27.3			1890	204	100	
(i)			(CI)	26.1	TAQ		1930	201	200	
			(25)	27.4			1820	201	400	
									102/0°	
	2.74	D2								
	2.89	B2		51.3	SO_3S	0.01				
2.89	3.04									
Compact well graded brown sandy GRAVEL		P1	7.8.7.8. (30)							
(River Terrace Deposit)	3.65	B3				100 84 56 25 13 7 3 2 2 1				Water Added
(ii)										
	4.41	B4				100 39 22 19 17 15 12 10 10 9				
	4.57	P2	5.6.6.9. (26)							
1.83	4.87									
		D3		17.2						
Very stiff mottled red and grey friable MARL with bands of siltstone	5.02	U2**	34.16.18. (CL) (38)	16.1			2200	319	100	
				16.5	TAQ		2190	454	200	
				17.0			2080	363	400	
					SO_3W	34.30 pH 7.50			189/0°	
(Keuper Marl)										
(i)	6.40	D4		17.9	SO_3S	0.03				WS @ 6.400
	6.55	U3	(43)	18.6			2120	206	100	SWL 5.480
				18.2	TAQ		2120	282	200	WL – 5.480
2.14	7.01			18.1			2150	471	400	12/11/71
Continued on Sheet 2.									160/0° 50/18°	BH @ 7.010 Cas @ 6.400 SWL 5.480 13/11/71 SWL 3.040

REMARKS:

* TOPSOIL.

** Consolidation Results – see separate sheet.

Sample	Depth	M.C. % D.W.		C.B.R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B122

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2
LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT ROAD SITE 3 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B SPT
Rotary Cored runs O/H
CASING Size 0.150 to. 7.540 Size to.

Ground Level 56.05m
Chainage 7482
Commenced 12/11/71
Completed 13/11/71

Weather DRY

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2. m	Sample No.	Blow Count (N) LL/PL/PI 5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve: mm 75 / 40 / 20 / 10 / 5; µm 2.40 / 600 / 210 / 150 / 75 — 8 Results of any other Tests	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Siren. kN/m² Shear/∠° kN/m²	WATER REMARKS 10
	7.01									
Hard mottled red and grey friable MARL with bands of siltstone (Keuper Marl) (1)	7.92	D5		20.2						
	8.07	B5		22.2						
	8.68	D6								
	8.83	P3	20.20.36.50 (126)	10.0	SO_3S	0.04				
	9.75	B6		18.9						
	10.36	P4	6.9.18.18 (51)	18.5						
	11.73	P5	18.18.27.51 (114)	18.0	SO_3S	0.06				
5.18	12.19									OCB @ 12.190
			BOREHOLE COMPLETE							Cas @ 7.540
										SWL 3.040
										OWC SWL 2.430

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B123

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 1

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT ROAD SITE 3 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B SPT

CASING Size 0.150 to. 5.660 Size to.

Ground Level 55.50m
Chainage 7545
Commenced 15/11/71
Completed 16/11/71

Weather
DRY/ VERY HEAVY RAIN

Rotary Cored runs O/H

STRATUM. (Scale:20mm to 1 metre) 1. Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI	5. Legend	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve mm 75 / mm 2.40; mm 40 / µm 600; mm 20 / µm 210; mm 10 / µm 150; mm 5 / µm 75 — 8 Results of any other Tests	TRIAXIAL TEST Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10.
TURF and TOPSOIL 0.15	0.15										
Very soft brown silty CLAY with occasional pebbles (Fill)	0.91	B1	55.24.31. (CH)		29.4						
(Thin band of silt in U1)	1.36	D1			32.6						
	1.52	U1	39.19.20. (CI) (13)		31.9			1920	36	100	
(i)					31.5	TAQ		1820	29	200	
2.28	2.43				33.0	SO_3W	7.55 pH 7.50	1870	35	400 17/0°	
Compact well graded brown sandy GRAVEL (River Terrace Deposit) (ii)		B2			4.3		- 100 80 48 22 8 3 1 1 1				Water Added
	3.04	P1	8.6.7.7. (28)		8.8		- 100 65 40 29 23 17 10 9 6				WS @ 3.040 SWL 2.130 W1 - 2.130
1.98	4.26 4.41	B3			3.0		100 73 27 7 5 5 4 2 2 2				
Very stiff mottled red and grey silty MARL (Keuper Marl) (i)	4.57	D2 U2	(50)		17.0 13.9 13.5 13.5	TAQ		2250 2230 2270	376 378 488	100 200 400 207/0°	
	6.09	P2	15.13 12.13 (53)		10.7	SO_3S	0.02				
	7.62	P3	4.8.10.12. (34)		19.0						
3.66	8.07										15/11/71 BH @ 8.070 Cas @ 5.660 SWL 2.430 16/11/71 SWL 2.430
Continued on Sheet 2.											

REMARKS:

Sample	Depth	M.C. % D.W.		C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

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GEO – RESEARCH LTD. B/H No. B123

CONTRACT LONDON-INVERNESS TRUNK ROAD A5111/A6 SHEET No. 2

LOCATION ASHBOURNE ROAD-ALLESTREE IMPROVEMENT ROAD SITE 3 No. of sheets 2

CLIENT
DEPARTMENT OF THE ENVIRONMENT
M.R.C.U.
DERBYSHIRE COUNTY SUB-UNIT

Percussion U D B
SPT
Rotary
Cored runs
O/H
5 Legend

CASING Size to. Size to.
0.150 5.660

Ground Level 55.50m
Chainage 7545

Commenced 15/11/71

Completed 16/11/71

Weather DRY/VERY HEAVY RAIN

STRATUM. (Scale: 20mm to 1 metre) 1. Thickness	Depth 2.m	Sample No.	Blow Count (N) LL/PL/PI	M.C % Core Rec. % 6.	Type of Test 7.	Grading % Passing Sieve 8 Results of any other Tests: mm 75 / mm 40 / mm 20 / mm 10 / mm 5 / mm 2.40 / μm 600 / μm 210 / μm 150 / μm 75	TRIAXIAL TEST: Bulk Density Kg/m³	Dev. Stress kN/m²	Lat. U.C.T. Pres. Stren. kN/m² kN/m² Shear/∠° kN/m²	WATER REMARKS 10
Hard mottled red and grey silty MARL with bands of hard siltstone (Keuper Marl) (11)	8.07									
	9.14	P4	79 for 0.250 total	14.3	SO_3S	0.07				
	10.66	P5	80 for 0.380 total	12.8						
	11.88	P6	75 for 0.250 total	14.1						
4.21	12.28									OCB @ 12.280 Cas @ 5.660 SWL 2.430 OWC SWL 1.820
			BOREHOLE	COMPLETE						

REMARKS:

Sample	Depth	M.C. % D.W.	C. B. R. Air Voids	Type	TOP 0.1	TOP 0.2	BOTTOM 0.1	BOTTOM 0.2	Value	COMPACTION B.S. 1377 No.	Max. Dry Density	Optm. M.C.

For other symbols used see overleaf

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Site Investigation

BOREHOLE RECORD

SK 33 NW/7

BOREHOLE No SB1

CLIENT: Dept. of Transport, Midland R.C.U.

SITE: Derby Ring Rd.,- Allestree Improvement

Sheet 1 of 1

Job Ref. 1576

Daily Progress	Water Level	Samples in situ tests and coring runs: Depth From	Depth To	Type	N Value or Core Recov.	Depth	Description of Strata	Reduced Level	Legend
								76.60	
18.10.72						0.10	TOPSOIL	76.50	
		0.60	1.00	U			Very stiff reddish brown and green thinly bedded or laminated very silty CLAY with frequent large mudstone lithorelicts and siltstone bands.		
		1.05		D					
		1.05	1.50	S	35				
		1.05	1.50	D					
							(Completely weathered Keuper Marl)		
		1.30		D		1.30			
		2.00	2.40	U				74.80	
		2.45		D			Reddish brown and green sometimes thinly bedded or laminated very hard SILTSTONE and hard very silty MUDSTONE with laminations of mudstone.		
		2.45	2.90	S	139				
		2.45	2.90	D					
		3.25		D					
		3.500	3.910	S	103+				
		3.50	3.91	D			(Material generally appears fresh but weathering varies throughout).		
		4.25		D					
		4.500	4.780	S	77+				
		4.50	4.78	D					
		5.25		D					
		5.650	6.025	S	100+				
		5.65	6.02	D					
		6.15		D					
		6.500	6.700	S	50+				
		6.50	6.70	D					
		7.20		D			(Keuper Marl)		
		7.500	7.785	S	84+				
(1.30)		7.50	7.78	D		7.80		68.80	
						END			

Type and Diameter of Boring:- Cable Percussion 150mm

Remarks:- No groundwater observed during boring.

Logged by:- GHJ

Scale:- 1 : 50

Monk

Site Investigation

BOREHOLE RECORD

SK 33NW/8

BOREHOLE No. SB2

CLIENT: Dept. of Transport, Midland R.C.U.

SITE: Derby Ring Rd., - Allestree Improvement

Sheet 1 of 1

Job Ref. 1576

Daily Progress	Water Level	Samples in situ tests and coring runs: Depth From	Depth To	Type	N Value or Core Recov.	Depth	Description of Strata	Reduced Level	Legend
								57.50	
20.9.77						0.30	TOPSOIL	57.20	
		0.50	0.95	U			Very stiff reddish brown very silty clay FILL with brick fragments.	56.85	
		0.95	1.35	S	30	0.85			
		0.95	1.35	D			Dense brown clayey fine medium and coarse SAND and fine medium and coarse GRAVEL with occasional roots.		
(1.00)		1.00	2.00	B					
21.9.77	23.9. ▽								
						2.00		55.50	
		2.35	2.80	S	60		Very dense brown fine medium and coarse SAND and fine medium and coarse GRAVEL with small cobbles.		
		2.35	2.80	D					
		2.50	3.50	B					
						3.50		54.00	
		3.80		W					
	▽	3.80	4.25	S	24		Medium dense slightly clayey as above.		
	(3.80)	3.80	4.25	D					
		3.50	4.40	B					
		4.40	4.85	U		4.40		53.10	
		5.00		D			Stiff reddish brown very silty CLAY/very clayey SILT with frequent lithorelicts below about 5.7m.		
		5.40		D					
		5.70	6.15	U					
(6.00)		6.20		D			(Residual becoming completely weathered Keuper Marl)		
22.9.77									
		6.50	6.95	S	28	6.50		51.00	
		6.50	6.95	D			Reddish-brown occasionally mottled green thinly bedded or laminated weathered sandy very silty MUDSTONE and silty fine SANDSTONE with occasional mudstone bands.		
		6.75		D					
		7.00	7.45	U					
		7.50	7.95	S	37				
		7.50	7.95	D					
(6.00)						8.00	(Keuper Marl)	49.50	
						END			

Type and Diameter of Boring:-

Cable Percussion 150mm.

Logged by:- GHJ

Scale:- 1 : 50

Remarks:-

Groundwater struck at 3.9m and rose to 2.9m after 10min where it stood after 20min.

Water sealed off at 4.4m.

Groundwater standing at 1.62m on 23.9.77

Monk

Site Investigation

BOREHOLE RECORD

SK 33 NW/9

BOREHOLE No SB3

CLIENT: Dept. of Transport, Midland R.C.U.

SITE: Derby Ring Rd., - Allestree Improvement

Sheet 1 of 1

Job Ref. 1576

Daily Progress	Water Level	Samples in situ tests and coring runs: Depth From	Depth To	Type	N Value or Core Recov.	Depth	Description of Strata	Reduced Level	Legend
								57.80	
22.9.77		0.40		D		0.26	TOPSOIL	57.54	
		0.50	0.95	U			Very stiff brown silty CLAY with small pockets of sand and becoming stiff brown mottled with red very silty CLAY with roots and fine gravel.		
		1.00		D					
		1.30		D					
		1.50	1.95	S	24	1.50	(FILL?)		
		1.50	1.95	D				56.30	
		1.50	2.50	B			Medium dense brown fine medium and coarse GRAVEL and very sandy CLAY with occasional cobbles.		
		2.50	2.95	S	23	2.50		55.30	
		2.50	2.95	D					
		2.50	3.50	B			Medium dense brown clayey fine medium and coarse SAND and fine medium and coarse GRAVEL.		
		4.00	4.45	S	19				
		4.00	4.45	D					
	24.9.	4.00	4.50	B					
	▼	4.50	4.95	U		4.50		53.30	
		4.85		W			Stiff to very stiff reddish brown occasionally mottled green silty becoming very silty CLAY with mudstone and siltstone lithorelicts which increase in size and frequency with depth.		
		5.00		D					
		5.00	5.45	S	19				
		5.00	5.45	D					
	▼	6.00	6.45	U			Material is thinly bedded or laminated in parts and bands of hard silty fine sandstone present below 6.5m.		
	(5.00)								
(5.00)		6.50		D					
23.9.77		6.50	6.95	S	33				
		6.50	6.95	D					
		7.50	7.95	U			(Residual becoming completely weathered Keuper Marl)		
(6.00)		8.00		D		8.00		49.80	
						END			

Type and Diameter of Boring:-

Cable Percussion 150mm.

Logged by:- GMJ

Scale:- 1 : 50

Remarks:-

Groundwater struck at 6m and rose steadily to 4.1m after 20 min. Water standing at 4.4m on 24.9.77 morning and 3.1m at end of day.

Monk

Site Investigation

BOREHOLE RECORD SK 33 NW/10

BOREHOLE No. SB4

CLIENT: Dept. of Transport, Midland R.C.U.

SITE: Derby Ring Rd., - Allestree Improvement

Sheet 1 of 1

Job Ref. 1576

Daily Progress	Water Level	Samples in situ tests and coring runs: Depth From	Depth To	Type	N Value or Core Recov.	Depth	Description of Strata	Reduced Level	Legend
								57.30	
23.9.77						0.12	TOPSOIL	57.18	
		0.50		D			Very stiff reddish brown and brown silty clay FILL with pockets of med um gravel fragments of coal and roots.		
		1.00		D					
(1.25)		1.25	1.65	U					
24.9.77									
		1.65		D					
		1.75	2.20	S	27	1.70		55.60	
		1.75	2.20	D					
		1.70	3.00	B			Medium dense yellowish brown sand clay gravel and sandstone FILL.		
	27.9 ▽								
		3.00		W					
	▽	3.20	3.65	S	40	3.20		54.10	
	(3.00)	3.20	3.65	D					
		3.00	4.00				Dense brown occasionally clayey fine medium and coarse SAND and fine medium and coarse GRAVEL with occasional cobbles.		
(4.00)									
26.9.77		4.25		D					
		4.50	4.90	U		4.45		52.85	
		4.50	5.50	B			Firm reddish brown sandy silty CLAY with rounded fine and medium gravel and fragments of mudstone.		
						4.70		52.60	
		5.00		D					
		5.50	5.95	S	13		Firm to stiff reddish brown occasionally green very silty CLAY with fine medium and coarse mudstone lithorelicts which increase in size and frequency with depth.		
		5.50	5.95	D					
		6.00	6.45	U					
		6.50		D			(Residual Keuper Marl)		
		6.50	6.95	S	32	6.50		50.80	
		6.50	6.95	D			Hard with occasional softer bands reddish brown occasionally mottled green very silt. CLAY with frequent large often laminated or thinly bedded mudstone and siltstone lithorelicts.		
		7.25		D					
	▽	7.50	7.95	U					
	(6.00)								
		8.00		D					
		8.50	8.95	S	25				
		8.50	8.95	D					
		9.00	9.45	U					
		9.50		D					
		9.50	9.95	S	48		(Completely weathered Keuper Marl		
(6.00)		9.50	9.95	D		9.95		47.35	
						END			

Type and Diameter of Boring:- Cable Percussion 150mm

Logged by:- GHJ

Scale:- 1 : 50

Remarks:-

Inspection pit dug to 1.25m.
Groundwater struck at 3.3m and rose steadily to 2.8m after 20 min.
Water sealed off by casing at 4.5m. Water restruck at 7.5m and rose steadily to 6.8m after 20 min. Water level at 2.7m on morning of 27.9.77.

Monk

Site Investigation

BOREHOLE RECORD

SK 33 NW/11

BOREHOLE No. SB5

CLIENT: Dept. of Transport, Midland R.C.U.

SITE: Derby Ring Rd., -Allestree Improvement

Sheet 1 of 1

Job Ref. 1576

Daily Progress	Water Level	Samples in situ tests and coring runs: Depth From	Depth To	Type	N Value or Core Recov.	Depth	Description of Strata	Reduced Level	Legend
								56.80	
27.9.77						0.12	TOPSOIL	56.68	
		0.55	1.00	U			Stiff dark brown and grey mottled very silty clay FILL with organic inclusions.		
		1.05		D					
		1.50		D		1.50		55.30	
		1.70	2.15	U			Firm yellowish brown and grey mottled sandy silty CLAY with thin bands of clayey sand with gravel and occasional sandstone fragments.		
		2.20		D					
	28.9.	2.50	2.95	S	8				
		2.50	2.95	D					
		2.60		W					
	▽	3.00	3.45	S	47	3.00	(FILL?)		
	(2.50)	3.00	3.45	D				53.80	
		3.00	4.00	B			Dense becoming medium dense brown slightly clayey fine medium and coarse SAND and fine medium and coarse GRAVEL with cobbles.		
		4.00	4.45	S	15				
		4.00	4.45	D					
		4.50	4.95	U		4.45		52.35	
(5.00)		5.00		D			Firm becoming very stiff with depth reddish brown silty CLAY with mudstone lithorelicts which increase in size and frequency with depth.		
28.9.77		5.20	5.65	S	14				
		5.20	5.65	D					
		5.75		D					
		6.00	6.45	U			Material is often thinly bedded or laminated.		
		6.50		D					
		6.50	6.95	S	42				
		6.50	6.95	D					
		7.20		D			(Residual becoming completely weathered Keuper Marl)		
		7.50	7.95	U		7.50		49.30	
		8.00		D			Reddish brown occasionally green sometimes laminated or thinly bedded hard very silty MUDSTONE with bands of very stiff clay, hard siltstone and with silty fine sandstone below about 9m.		
		8.00	8.45	S	36				
		8.00	8.45	D					
		8.75		D					
		9.00	9.45	U					
		9.50		D					
		9.50	9.95	S	73		(Completely weathered Keuper Marl)		
(6.00)		9.50	9.95	D		9.95		46.85	
						END			

Type and Diameter of Boring:-
Cable Percussion 150mm

Logged by:- GrJ

Scale:- 1 : 50

Remarks:-
Groundwater present at 3m but not enough to sample. Groundwater struck at 7.1m and rose to 6.15m after 15 min where it remained after 20 min. Standing water level at 2.3m at end of day 28.9.77 in uncased borehole.

Appendix C-3

Exploratory Hole Logs – Little Eaton

DERBYSHIRE COUNTY COUNCIL — BRIDGES AND HIGHWAYS DEPARTMENT

TEST BORING REPORT

Site. A6 - A61 Link Road [illegible] Chainage. 1+90 Ford Lane Connection

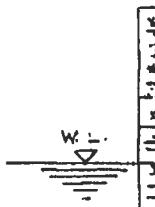
Bore No. 15 Natural Ground Level 161.4 ft. A.O.D.

Date of boring 8.4.64 Water Level 159.4 ft. A.O.D.

Remarks .....

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Depth Below Surface ft.	Depth Below Surface in.	D. D.	U.C.S.	C.B.R.	Soil Classification L.L. / N.M.C.	Soil Classification P.I. / Casagrande Classn.	Description and Remarks.
1	6	—	—	—	—	—	Top soil
2	0	88.0	—	1.8(r)	41 / 34.0	15 / MI/OI	Dark brown loamy soil
4	0	—	—	—	— / 34.2		Dark brown silty soil.
6	0	88.2	—	1.5(r)	40 / 37.75	12 / MI/OI	

SCALE 1 IN = 2 FT.

D.D. — Dry density, lb. per cu.ft.
U.C.S.— Unconfined compressive strength, lb. per sq. in.
C.B.R. Californian Bearing Ratio, per cent.
r — remoulded sample.

L.L. — Liquid limit.
P.I. — Plasticity Index.
N.M.C. Natural moisture content.
u. — undisturbed sample.

DERBYSHIRE COUNTY COUNCIL - BRIDGES AND HIGHWAYS DEPARTMENT

TEST BORING REPORT

Site. A6 - A61 LINK ROAD ... Chainage 4+00 FORD LANE CONNECTION

Bore No. 16 ... Natural Ground Level 164·2 ft. A.O.D.

Date of boring 9.3.68 ... Water Level 162·5 ft. A.O.D.

Remarks .....

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Depth Below Surface ft.	Depth Below Surface in.	D. D.	U.C.S.	C.B.R.	Soil Classification L.L. / N.M.C.	Soil Classification P.I. / Casagrande Classn.	Description and Remarks.
					—	—	Dark brown top soil
2	0	88·0	—	—	34·8	—	Dark brown silty soil (moist)
4	0	82·7	—	0·6(r)	42 / 36·7	14 / MI/OI	Dark grey sandy silt, patches of sand.
6	0	82·2	—	0·8(r)	55 / 28·5	25 / MH/CH.	

SCALE: 1IN = 2FT.

D.D. — Dry density, lb. per cu.ft.
U.C.S. — Unconfined compressive strength, lb. per sq. in.
C.B.R. Californian Bearing Ratio, per cent.
r — remoulded sample.

L.L. — Liquid limit.
P.I. — Plasticity index.
N.M.C. Natural moisture content.
u. — undisturbed sample.

DRILLING			SAMPLING		STRATA				TESTING				
RATE	CASING	WATER	DEPTH	TYPE	KEY	DEPTH	LEVEL	DESCRIPTION	'N'	n %	c kN/m²	φ °	
9.8.72	SA/0.2					0.3	50.5	Topsoil.					
			0.4-0.9	U				Soft brown and yellow brown silty CLAY with traces of organics and some pockets of sand and flinty gravel.	67	33	10	6	
			1.1	D						19			
			1.5-2.0	U					41	31	30	-	
						1.7	49.1	Soft firm light brown mottled grey very silty CLAY.					
2.0.	Nil	Nil	2.0	D		2.0	48.8	End of Borehole		31			

REMARKS

CHAINAGE: 00 + 60m.

CONTRACT: LITTLE EATON

CONTRACT NO: S562

BOREHOLE RECORD

BOREHOLE NO: 1R

(Sheet 1 of 1)

exploration associates limited

Ground level (Datum) 50.8 AOD

DRILLING			SAMPLING		STRATA				TESTING				
RATE	CASING	WATER	DEPTH	TYPE	KEY	DEPTH	LEVEL	DESCRIPTION	'N'	m %	c. kN/m²	ϕ	
9.8.72	SA/0.2		0.3-0.8	U		0.2	50.4	Topsoil.	71	25	60	-	
			1.0	D				Firm light brown mottled yellow brown silty CLAY with occasional flinty gravel, and organics.		24			
			1.8-2.3	U		1.8	48.8		46	20	10	3	
			2.5-3.0	C.D					(10)	25			
			2.6	B				Loose brown silty SAND clayey in part becoming medium dense brown fine to coarse SAND and GRAVEL.					
			3.3-3.8	U					99				
			3.6	B									
			3.8-4.3	C.D					(20)				
4.3	Nil	Nil				4.3	46.3						
								End of Borehole.					

REMARKS

CHAINAGE: 01 + 70m.

CONTRACT: LITTLE EATON.

CONTRACT NO: S562

BOREHOLE RECORD

BOREHOLE NO: 2R

(Sheet 1 of 1)

exploration associates limited

Ground level (Metres) 50.6 AOD

DRILLING			SAMPLING		STRATA				TESTING			
RATE	CASING	WATER	DEPTH	TYPE	KEY	DEPTH	LEVEL	DESCRIPTION	IP	m %	c kN/m²	φ °
9.8.72	SA/0.2					0.3	50.1	Topsoil.				
			0.4-0.9	U				Firm brown, yellow brown and grey silty CLAY with flinty gravel.	83	23	90	-
						1.0	49.4					
			1.1-1.6	U					41	15	50	5
			1.6-2.1	C,D					(11)			
								Firm brown silty very sandy CLAY, with sandstone fragments and flints gravel.				
		*	2.3	B								
			2.6-3.1	C,D		2.7	47.3		(19)	18		
3.1	2.5	2.0										
10.8.72			3.3	B				Medium dense brown fine to coarse sandy GRAVEL.				
			4.1-4.6	C,D					(53)			
			4.4	B								
5.0	4.5	2.0	5.0	B		5.0	45.4					
								End of Borehole.				

REMARKS * Water struck at 2.6m. rose to 1.5m. CHAINAGE 02 + 70m.

CONTRACT: LITTLE EATON

CONTRACT NO: S562

BOREHOLE RECORD

BOREHOLE NO: 3R
(Sheet 1 of 1)

exploration associates limited

Ground level (Metres) 50.4 AOD

DRILLING			SAMPLING		STRATA				TESTING				
RATE	CASING	WATER	DEPTH	TYPE	KEY	DEPTH	LEVEL	DESCRIPTION	'N'	n %	c kN/m²	φ °	
10.8.72	SA/0.2		0.3-0.8	U		0.2	50.8	Topsoil.	32	20	60	-	
			1.0	D				Firm brown and brown grey silty CLAY with some fine/ medium gravel.		22			
			1.8-2.3	U					39	27	40	-	
		**	2.4	D						24			
		▽	2.6-3.1	B		2.5	48.5		76				
			3.1-3.6	C,D				Loose/medium dense fine medium SAND and GRAVEL.	(11)				
			3.4	B		3.4	47.6						
		*	3.5	B					-	26			
		▽	3.6-3.8	B				Firm dark grey mottled brown silty CLAY with some gravel.	120	26			
			4.0	W									
			4.0-4.5	C					(98)				
			4.7	D		4.7	46.3			6			
			5.0-5.2	S,D				Hard grey broken MUDSTONE.					
			5.3	D		5.3	45.7			17			
			5.6-6.1	S,D					(32)	10			
			6.3	D				Firm/stiff black shaly very silty CLAY with fragments of dark grey and black MUDSTONE.		19			
			6.5-7.0	S,D					(35)	22			
7.0	6.9	3.1				7.0	44.0	End of Borehole.					

REMARKS * Water struck 4.0m. rose to 2.5m.
** Slight seepage at 2.8m.
Rock chisel used 4.7 - 5.3m.

CHAINAGE: 03 + 70m.

CONTRACT: LITTLE EATON
CONTRACT NO: S562

BOREHOLE RECORD

BOREHOLE NO: 4R
(Sheet 1 of 1)

exploration associates limited

Ground level (Metres) 51.0 AOD

DRILLING			SAMPLING		STRATA				TESTING			
RATE	CASING	WATER	DEPTH	TYPE	KEY	DEPTH	LEVEL	DESCRIPTION	'N'	n %	c kN/m²	ø °
11.8.72	SA/0.2		0.3-0.8	U		0.2	53.1	Topsoil.	37	16	20	3
			1.0	D				Soft dark brown silty CLAY with sandstone fragments with lenses of clayey SAND and GRAVEL.		9		
			1.8-2.3	B					31			
			2.5	D		2.5	50.8			34		
			2.6-3.1	U				Soft/firm yellow brown slightly silty CLAY with fragments of grey sandstone and siltstone.	14	52	30	-
			3.1	D		3.0	50.3			33		
			3.4-3.9	U				Firm finely laminated dark grey silty CLAY.	37	27	30	1
			4.1	D		4.0	49.3			29		
		*	4.9-5.4	U					104	18	40	5
			5.0	W								
			5.6	D				Firm dark grey mottled brown shaly CLAY with fragments of weak shaly MUDSTONE.		25		
			6.4-6.9	S.D					(37)	14		
			7.1	D						24		
			7.6-7.8	B					120			
			7.9-8.4	S.D					(42)	24		
			8.7	D						24		
			9.4-9.9	S.D					(80)	11		
10.0	7.5	3.1	10.0	D		10.0	43.3			13		
								End of Borehole.				

REMARKS * Water encountered at 5.0m. rose to 3.0m.
Rock chisel used 8.6m - 10.0m.

CHAINAGE: 04 + 70m.

CONTRACT: LITTLE EATON

CONTRACT NO: S 562

BOREHOLE RECORD

BOREHOLE NO: 5R
(Sheet 1 of 1)

exploration associates limited

Ground level (Metres) 53.3 AOD

DRILLING			SAMPLING		STRATA				TESTING				
RATE	CASING	WATER	DEPTH	TYPE	KEY	DEPTH	LEVEL	DESCRIPTION	'N'	n %	c kN/m²	φ °	
14.8.72	SA/0.2					0.2	58.6	Topsoil.					
			0.3-0.8	U					35	15	90	11	
			0.9	D						16			
			1.0-1.5	S.D.				Firm brown silty very sandy CLAY with fragments of sandstone and gravel. occasional sandy bands.	(5)	17			
			1.8-2.3	U					58	15	30	4	
			2.5-3.0	C					(26)				
			2.9	B		2.9	55.9			20			
			3.0-3.5	U					56	24	80	-	
			3.7	D				Firm/stiff fissured brown and grey silty CLAY with some pockets of sand.		24			
			3.8-4.3	U					93	28	30	6	
			4.5	D		4.5	54.3			16			
			5.3-5.8	U					127	21	60	10	
			6.0	D				Stiff fissured dark grey silty CLAY with fragments of shaly MUDSTONE.		20			
			6.5-7.0	S.D					(39)	21			
7.0	Nil	Nil				7.0	51.8						
								End of Borehole.					

REMARKS

CHAINAGE: 05 + 70m.

CONTRACT: LITTLE EATON

CONTRACT NO: S562

BOREHOLE RECORD

BOREHOLE NO: 6R

(Sheet 1 of 1)

exploration associates limited

Ground level (Metres) 58.8 AOD

DRILLING			SAMPLING		STRATA				TESTING				
RATE	CASING	WATER	DEPTH	TYPE	KEY	DEPTH	LEVEL	DESCRIPTION	'N'	m %	c kN/m²	φ °	
14.8.72	SA/0.2		0.4	B		0.6	67.1	FILL: Loose brown very silty very sandy CLAY with organics and SANDSTONE fragments and cobbles.		17			
			0.7-1.2	U				Firm light brown mottled yellow brown silty CLAY with fragments of siltstone and sandstone.	67	13	60	3	
			1.4	D		1.4	66.3			12			
			2.0-2.3	U.B					100				
			2.3-2.8	S.D					(50)	13			
			2.8-3.3	S.D				Very weak shaly grey brown SILTSTONE with bands of sandstone. Ironstaining noted.	(78)	12			
			3.3-3.8	S.D					(133)	11			
			3.8-4.3	S.D					(174)	11			
4.3	Nil	Nil				4.3	63.3	End of Borehole.					

REMARKS: Rock chisel used 3.3 - 3.8m.

CHAINAGE: 06 + 55m.

CONTRACT: LITTLE EATON

CONTRACT NO: S562

BOREHOLE RECORD

BOREHOLE NO: 7R
(Sheet 1 of 1)

exploration associates limited

Ground level (Metres) 67.7 AOD

DRILLING			SAMPLING		STRATA				TESTING				
RATE	CASING	WATER	DEPTH	TYPE	KEY	DEPTH	LEVEL	DESCRIPTION	'N'	n %	c kN/m²	ø	
15.8.72	SA/0.2					0.5	75.9	TOPSOIL.					
			0.9-1.4	U				Soft becoming firm brown silty sandy CLAY with sandstone fragments.	67	18	10	4	
			1.6	D						17			
			1.7	D						18			
			1.8-2.3	U					42	17	50	3	
						2.4	74.0						
			2.5-3.0	D					117	10			
			3.0-3.5	S.D					(64)	10			
			3.7	D				Weak fine/medium light brown micaceous SANDSTONE.		10			
			4.5-5.0	S.D					(158)	10			
			5.0-5.5	S.D					(190)	10			
5.5	Nil	Nil				5.5	70.9	End of Borehole.					

REMARKS Rock chisel uged 4.5m - 5.0m.

CHAINAGE: 07 + 58n.

CONTRACT: LITTLE EATON

CONTRACT NO: S562

BOREHOLE RECORD

BOREHOLE NO: 8R
(Sheet 1 of 1)

exploration associates limited

Ground level (Metres) 76.4 AOD

DRILLING			SAMPLING		STRATA				TESTING				
RATE	CASING	WATER	DEPTH	TYPE	KEY	DEPTH	LEVEL	DESCRIPTION	'N'	n %	c kN/m²	ϕ	
18.8.72	SA/0.2		0.2–1.8	B		0.2	72.3	TOPSOIL.		23			U
			0.8–1.3	B				Firm brown slightly sandy. silty CLAY. with gravel and cobbles.					
1.5	Nil	Nil	1.3–1.5	B						21			
21.8.72	Nil	Nil	1.5–2.0	S.D		1.5	71.0		(19)	17			
			2.0–2.5	S.D					(37)	13			
			2.5–3.0	S.D					(51)	10			
			3.5–4.0	S.D				Very weak shaly fine grained grey brown SILTSTONE shattered throughout with ironstaining.	(110)	12			
			4.0–4.5	S.D					(163)	11			
4.5	Nil	Nil	4.5										
23.8.72	Nil	Nil		R/0.07									
				(100%)									
			6.7										S/R
				(100%)									
			9.7										
				(100%)				Continued from 11.0m.					

REMARKS Air flush technique used on all rotary coring. CHAINAGE: 07 +08m.
Slight seepage encountered below 5.0m..
Rock chisel used 3.5–4.0m. Test pit to 1.5m.

CONTRACT: LITTLE EATON
CONTRACT NO: S562

BOREHOLE RECORD

BOREHOLE NO: 57B
(Sheet 1 of 2)

exploration associates limited

Ground level (Metres) 72.5 . AOD

DRILLING			SAMPLING		STRATA				TESTING				
RATE	CASING	WATER	DEPTH	TYPE	KEY	DEPTH	LEVEL	DESCRIPTION	'N'	n %	c kN/m²	ø °	
			11.2	(100%)		11.3	61.2	Continued from 11.0m.					
			12.7	(100%)				Medium hard shaly dark grey MUDSTONE. Some siltstone bands. Frequent horizontal jointing with ironstaining.					S/R
15.0	Nil.	13.5	15.0			15.0	57.5	End of Borehole.					
24.8.72	Nil	13.7											
6.9.72	Nil	12.0											
13.9.72	Nil	11.9											

REMARKS Standpipe installed to 15.0m.

CONTRACT: LITTLE EATON

CONTRACT NO: S562

BOREHOLE RECORD

BOREHOLE NO: 57B
(Sheet 2 of 2)

exploration associates limited

Ground level (Metres) 72.5 AOD

DRILLING			SAMPLING		STRATA				TESTING			
RATE	CASING	WATER	DEPTH	TYPE	KEY	DEPTH	LEVEL	DESCRIPTION	'N'	m %	c. ϕ kN/m²	ϕ°
18.8.72	SA/0.2		0.2-1.0	B		0.2	77.4	TOPSOIL.				
								Brown sandy CLAY with gravel.				
			1.0-1.5	B		1.0	76.6					
1.5	Nil	Nil										
			1.5-2.0	U.D					107	21		
1.5	Nil	Nil										
			2.0-2.5	S.D					(29)	15		
								Grey brown very clayey SILT with fragments of mudstone and siltstone. Band of weak fine SILTSTONE at 3.0m.				
			2.5-3.0	S.D					(40)	15		
			3.0-3.5	S.D					(63)	10		
3.5	Nil	Nil										
6.9.72	Nil	Nil	3.5-4.0	S.D					(80)			
			4.0-4.5	S.D		4.0	73.6		(155)			
								Medium hard fine/medium SANDSTONE.	*			
			4.5-4.8	S.D					(131)			
5.0	Nil	Nil				5.0	72.6					
								End of Borehole.				

REMARKS * Total number of blows for recorded penetration. CHAINAGE: 07 + 26m.
Rock chisel used 4.0 – 4.5m.
Test Pit to 1.5m.

CONTRACT: LITTLE EATON
CONTRACT NO: S562

BOREHOLE RECORD

BOREHOLE NO: 66B
(Sheet 1 of 1)

exploration associates limited

Ground level (Metres) 77.6 AOD

COSTAIN Environmental Services	Contract Name: Little Eaton Economy GI		Client: A-one+	Borehole ID: BH1
	Contract Number: 4217	Date Started: 12/11/2012	Logged By: WA	Checked By: FS
				Sheet 1 of 1
Dynamic Sampler Borehole Log	Easting: 436286.3	Northing: 339999.4	Ground Level (mOD): 54.95	Plant Used: Comacchio 205
				Scale: 1:55

Samples & In Situ Testing		Strata Details				Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description	Water Strike(s)	Backfill/ Installation
0.00-0.50 B1 0.00-0.50 D2		54.65	(0.30) 0.30		MADE GROUND: (Soft) brown slightly gravelly sandy CLAY with occasional rootlets. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of brick and limestone. (TOPSOIL)		
0.50-1.20 B3 0.50-1.20 D4			(0.90)				
1.20-1.65 D5 1.20-1.75 ES6	SPT(S)@1.20m, N=57 (12,14,15,16,15,11)	53.75	1.20		MADE GROUND: Brown silty SAND and GRAVEL with low to medium cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of limestone. Cobbles are subangular of limestone.		
1.75-2.00 D7					MADE GROUND: (Very dense) brownish grey slightly clayey very sandy GRAVEL. Sand is fine to coarse with ash. Gravel is angular to subangular, fine to coarse of concrete, sandstone and limestone.		
2.00-2.45 D8 2.00-2.70 B9	SPT(S)@2.00m, 50/200mm (12,9,12,24,14)		(1.50)				
2.70-3.00 D10		52.25	2.70		MADE GROUND: (Firm to stiff) brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of limestone, clinker and slag.		
3.00-3.45 D11 3.00-3.30 ES12 3.30-4.00 B13	SPT(S)@3.00m, N=14 (14,8,6,3,2,3)		(1.30)				
4.00-4.45 D14 4.00-4.20 ES15 4.20-4.55 D16	SPT(S)@4.00m, N=66 (4,4,12,20,19,15)	50.95	4.00 (0.55)		MADE GROUND: Light brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of sandstone and limestone.		
4.55-5.00 B17		50.40	4.55		MADE GROUND: Grey sandy clayey GRAVEL. Sand is fine to coarse with ash. Gravel is angular to subangular, fine to coarse of quartzite, siltstone and limestone. (Below 5.00m depth, very dense)		
5.00-5.45 D18 5.00-5.20 ES19 5.20-5.40 D20 5.40-5.75 B21	SPT(S)@5.00m, N=63 (5,12,17,12,16,18)		(1.20)				
5.75-5.90 ES22 5.90-6.00 D23 6.00-6.50 B25		49.20	5.75 (0.75)		Stiff fissured orangish brown locally mottled bluish grey sandy CLAY. Sand is fine to coarse.		
6.50-6.95 D24 6.50 W26 6.50-6.70 D27 6.70-7.70 B28	SPT(S)@6.50m, N=13 (4,4,3,3,3,4)	48.45	6.50		Medium dense brown SAND and GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of mixed lithologies.		
7.70-7.80 D29 7.80-8.80 B30	SPT(C)@8.00m, N=19 (5,6,4,2,4,9)		(3.00)		(Between 7.80 and 8.80m depth, pockets of grey sandy silt)		
8.80-9.00 D31 9.00-9.50 B32							
	SPT(C)@9.50m, N=47 (5,6,13,13,11,10)	45.45	9.50 (0.45)		No recovery.		
		45.00	9.95		End of Borehole at 9.95 m		

Start & End of Shift Observations

Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
13/11/2012	0600	6.95	5.50	4.37
13/11/2012	2000	5.50	5.50	dry
14/11/2012	0600	9.95	5.50	5.80

Depth/Casing Diameter

Depth (m)	Casing Diameter (mm)
5.50	140

Depth/Borehole Diameter

Depth (m)	Borehole Diameter (mm)
1.20	500
9.95	140

Remarks:

Borehole location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Borehole complete at 9.95m depth.
Groundwater encountered at 4.45m depth, rising to 4.37m depth after 20 minutes and groundwater encountered at 6.50m depth, rising to 5.89m depth after 20 minutes.
Borehole backfilled with bentonite pellets on completion.
SPT Hammer ID: RD001. Er: 83%

Release Status: Final

COSTAIN Environmental Services	Contract Name: Little Eaton Economy GI		Client: A-one+	Borehole ID: BH2
	Contract Number: 4217	Date Started: 20/11/2012	Logged By: NB	Checked By: FS
Cable Percussion Borehole Log	Easting: 436312.7	Northing: 340014.6	Ground Level (mOD): 50.04	Plant Used: Pilcon
				Sheet 1 of 2
				Scale: 1:30

Samples & In Situ Testing		Strata Details				Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description	Water Strike(s)	Backfill/ Installation
0.20 D1 0.30-0.70 B2		49.84	0.20 (0.50)		TOPSOIL: Grass over firm orangish brown sandy gravelly CLAY. Sand is fine to medium. Gravel is angular to subangular, fine to coarse of sandstone and limestone. Frequent roots. Firm brown slightly gravelly sandy silty CLAY. Sand is fine to medium. Gravel is angular to subrounded, fine to coarse of sandstone, limestone, siltstone and occasional fine gravel sized fragments of black carbonaceous material. Occasional roots.		
0.80 D3 1.10 WS9		49.34	0.70 (0.50)		Firm brown mottled orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is angular to subangular, fine to coarse of mudstone and sandstone. Occasional roots.		
1.30 D4 1.30-1.80 B5	SPT(S)@1.30m, N=6 (1,1,1,2,2,1)	48.84	1.20 (0.70)		Soft to firm orangish brown mottled grey brown slightly gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is angular to subrounded. fine to medium of sandstone, mudstone and limestone.		
1.90 D6 2.00 D7 2.00-2.40 B8	SPT(S)@2.00m, N=9 (1,0,1,2,3,3)	48.14 48.04	1.90 2.00 (0.50)		Firm orangish brown mottled red brown slightly sandy very gravelly CLAY. Sand is fine to medium. Gravel is angular to subrounded, fine to coarse of sandstone, siltstone and mudstone. Loose orangish brown mottled grey very sandy clayey GRAVEL. Sand is fine to coarse. Gravel is subrounded to rounded, fine to coarse of sandstone, siltstone, mudstone, limestone and quartzite.		
2.50-3.00 B10		47.54	2.50		Medium dense grey sandy GRAVEL. Sand is medium to coarse. Gravel is subrounded to rounded, fine to coarse of sandstone, quartzite, siltstone, mudstone and limestone.		
3.00 D11 3.00-3.50 B12	SPT(S)@3.00m, N=15 (3,4,4,4,3,4)		(1.40)		(At 3.00m depth, bed of brown slightly gravelly sand. Sand is fine to coarse. Gravel is subrounded to rounded, fine to coarse of sandstone, quartzite, siltstone, mudstone and limestone)		
3.90 D13 4.05 D14 4.05-4.50 B15	SPT(S)@4.05m, N=44 (3,6,8,9,14,13)	46.14 45.99	3.90 4.05 (0.95)		Grey brown very sandy GRAVEL. Sand is medium to coarse. Gravel is subrounded to rounded, fine to coarse of sandstone, quartzite, siltstone and mudstone. Dense grey very sandy GRAVEL. Sand is medium to coarse. Gravel is subrounded to rounded, fine to coarse of sandstone, quartzite, siltstone, mudstone and limestone.		
4.90 D16 5.00 D17 5.00-5.50 B18	SPT(S)@5.00m, N=27 (4,4,6,7,6,8)	45.04	5.00 (1.00)		Medium dense grey brown very sandy slightly clayey GRAVEL. Sand is medium to coarse. Gravel is subrounded to rounded, fine to coarse of sandstone, quartzite, siltstone, mudstone and limestone. Continued next sheet		

Start & End of Shift Observations

Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
20/11/2012	1800	2.40	2.40	1.90
21/11/2012	0800	2.40	2.40	1.10
21/11/2012	1800	8.60	8.50	1.10
22/11/2012	0800	8.50	8.50	1.00
22/11/2012	1800	10.00	9.70	1.00

Depth/Casing Diameter

Depth (m)	Casing Diameter (mm)
9.70	150

Depth/Borehole Diameter

Depth (m)	Borehole Diameter (mm)
1.20	500
10.00	150

Remarks:

Borehole location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Groundwater encountered at 2.40m depth, rising to 1.90m depth after 20 minutes.
Borehole complete at 10.00m depth.
Borehole backfilled with bentonite pellets on completion.
SPT hammer ID: EQU650. Energy Ratio, Er=69.29%.

Release Status: Final

COSTAIN

Environmental Services

Cable Percussion Borehole Log

Contract Name:		Client:		Borehole ID:
Little Eaton Economy GI		A-one+		BH2
Contract Number:	Date Started:	Logged By:	Checked By:	Sheet 2 of 2
4217	20/11/2012	NB	FS	
Easting:	Northing:	Ground Level (mOD):	Plant Used:	Scale:
436312.7	340014.6	50.04	Pilcon	1:30

Samples & In Situ Testing		Strata Details				Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description	Water Strike(s)	Backfill/ Installation
6.00 D19		44.04	6.00 (0.50)		Grey very sandy GRAVEL. Sand is medium to coarse. Gravel is subrounded to rounded, fine to coarse of sandstone, quartzite, siltstone, mudstone and limestone.		
6.50 D20 6.50-7.00 B21	SPT(S)@6.50m, 50/240mm (5,11,15,15,16,4)	43.54	6.50 (0.50)		Very dense grey slightly sandy GRAVEL. Sand is coarse. Gravel is subrounded to rounded, fine to coarse of sandstone, quartzite, siltstone, mudstone and limestone.		
7.50 D22		43.04	7.00 (1.10)		Brown gravelly silty SAND. Sand is fine to coarse. Gravel is subrounded to rounded, fine to coarse of sandstone, quartzite, siltstone, mudstone and limestone.		
8.10 D23 8.10-8.60 B24	SPT(S)@8.10m, N=11 (2,3,2,3,3,3)	41.94	8.10 (1.90)		Medium dense becoming very dense grey brown very sandy GRAVEL. Sand is fine to coarse. Gravel is subrounded to rounded, fine to coarse of sandstone, quartzite, siltstone, mudstone and limestone.		
9.00 D25 9.40 D26 9.55 D27 9.55-10.00 B28	SPT(S)@9.55m, 50/275mm (2,6,11,14,16,9)						
		40.04	10.00		End of Borehole at 10.00 m		

7 8 9 10 11

Start & End of Shift Observations

Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
20/11/2012	1800	2.40	2.40	1.90
21/11/2012	0800	2.40	2.40	1.10
21/11/2012	1800	8.60	8.50	1.10
22/11/2012	0800	8.50	8.50	1.00
22/11/2012	1800	10.00	9.70	1.00

Depth/Casing Diameter

Depth (m)	Casing Diameter (mm)
9.70	150

Depth/Borehole Diameter

Depth (m)	Borehole Diameter (mm)
1.20	500
10.00	150

Remarks:

Borehole location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Groundwater encountered at 2.40m depth, rising to 1.90m depth after 20 minutes.
Borehole complete at 10.00m depth.
Borehole backfilled with bentonite pellets on completion.
SPT hammer ID: EQU650. Energy Ratio, Er=69.29%.

Release Status: Final

COSTAIN

Environmental Services

Inspection Pit Log

Contract Name:		Client:		Trial Pit ID:
Little Eaton Economy GI		A-one+		BH3
Contract Number:	Date Started:	Logged By:	Checked By:	Sheet 1 of 1
4217	14/11/2012	SI	FS	
Easting:	Northing:	Ground Level (mOD):	Plant Used:	Scale:
436322.6	339998.2	53.58	Hand Tools	1:9

Samples & In Situ Testing		Water	Strata Details				Backfill
Sample ID	Test Result		Reduced Level	Legend	Depth (m) (thickness)	Strata Description	
			53.51		0.07	Tar-bound-macadam.	
						MADE GROUND: Orangish brown sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of limestone. (sub-base)	
0.20-0.60 B1			53.38		0.20		
						MADE GROUND: Brown very sandy very silty GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of limestone. Cobbles are angular to subrounded of limestone.	
					(0.40)		
0.50 D2							
0.60-1.00 B3			52.98		0.60		
						MADE GROUND: Light brownish grey sandy GRAVEL with medium to high cobble content and rare boulders. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of limestone. Cobbles and boulders are of limestone.	
					(0.60)		
1.00 D4							
			52.38		1.20	End of Inspection Pit	

General Remarks:

Borehole location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, possible drain encountered.
Inspection pit terminated at 1.20m.
Inspection pit backfilled with arisings and bentonite pellets.

Release Status: Final

COSTAIN Environmental Services	Contract Name: Little Eaton Economy GI		Client: A-one+	Borehole ID: WS9
	Contract Number: 4217	Date Started: 13/11/2012	Logged By: SI	Checked By: FS
				Sheet 1 of 1
Dynamic Sampler Borehole Log	Easting: 436352.9	Northing: 340007.0	Ground Level (mOD): 52.80	Plant Used: Dart
				Scale: 1:55

Samples & In Situ Testing		Strata Details				Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description	Water Strike(s)	Backfill/ Installation
0.00-0.50 B1 0.00-0.50 D2			(0.50)		MADE GROUND: Dark brown sandy clayey GRAVEL with low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of brick and limestone. Cobbles are subangular of limestone.		
0.50-1.00 B3 0.50-1.00 D4		52.30	0.50				
1.20-1.40 ES5 1.40-1.60 D6 1.60-2.00 B7	SPT(C)@1.20m, N=12 (2,2,2,4,3,3)	51.60	(0.70) 1.20		MADE GROUND: Brown gravelly slightly clayey silty SAND with low to medium cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of sandstone and limestone. Cobbles are subangular of limestone.		
2.00-2.20 ES8 2.20-2.40 D9 2.40-2.67 B10	SPT(C)@2.00m, N=16 (4,3,4,3,4,5)		(1.47)		MADE GROUND: (Medium dense) reddish brown, brown and light yellowish brown gravelly silty SAND. Sand is fine to coarse. Gravel is subangular to subrounded, fine to medium of quartz and sandstone. (Between 2.42 and 2.67m depth, slightly clayey)		
2.67-3.00 ES11		50.13	2.67		MADE GROUND: Brownish grey sandy GRAVEL. Sand is fine to coarse with ash. Gravel is angular to subangular, fine to coarse of mixed lithologies.		
3.00-3.20 D12 3.20-3.60 B13	SPT(C)@3.00m, N=19 (7,7,6,5,4,4)	49.60	(0.53) 3.20		Firm to stiff brown locally mottled bluish grey slightly sandy slightly gravelly CLAY. Sand is fine. Gravel is subangular to subrounded, fine of mixed lithologies.		
3.60-3.80 ES14 3.80-4.00 D15 4.00-4.45 D16 4.00-4.60 B17	SPT(S)@4.00m, N=8 (1,2,2,2,2,2)		(1.50)				
4.60-4.70 D18 4.70-5.00 D19		48.10	4.70		Very dark grey and grey brown slightly gravelly very sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to medium of mixed lithologies.		
5.00-5.45 D20 5.00-5.70 B21	SPT(S)@5.00m, N=32 (1,1,1,8,14,9)		(1.10)				
5.70-5.80 D22 5.80-6.00 D23 6.00-7.00 B24	SPT(C)@6.00m, N=15 (3,3,4,3,4,4)	47.00	5.80		Medium dense brown very sandy silty GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of mixed lithologies.		
7.00-7.20 D25 7.20-7.80 B26	SPT(C)@7.00m, N=43 (8,10,11,10,11,11)		(2.00)		(At 7.00m depth, dense)		
	SPT(C)@7.80m, 50/235mm (10,13,15,14,15,6)	45.00	7.80		No recovery.		
		44.61	(0.39) 8.19		End of Borehole at 8.19 m		

Start & End of Shift Observations				
Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
14/11/2012	0600	8.19	2.00	3.62

Depth/Casing Diameter	
Depth (m)	Casing Diameter (mm)
1.00	87
2.00	57

Depth/Borehole Diameter	
Depth (m)	Borehole Diameter (mm)
1.20	500
7.80	57

Remarks:

Windowless sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Borehole terminated at 8.19m depth on SPT refusal.
Groundwater encountered at 5.40m depth, rising to 3.62m depth after 15 minutes.
Borehole backfilled with bentonite pellets on completion.
SPT Hammer ID: SGT03. Er: 81%

Release Status: Final

COSTAIN Environmental Services	Contract Name: Little Eaton Economy GI		Client: A-one+	Borehole ID: BH9
	Contract Number: 4217	Date Started: 14/11/2012	Logged By: WA	Checked By: FS
				Sheet 1 of 1
Dynamic Sampler Borehole Log	Easting: 436352.9	Northing: 340007.0	Ground Level (mOD): 52.80	Plant Used: Comacchio 205
				Scale: 1:55

Samples & In Situ Testing		Strata Details					Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description		Water Strike(s)	Backfill/ Installation
					Openhole down WS9 hole.			
			(7.65)					
7.65-8.00 D1		45.15	7.65 (0.35)		Brownish grey fine to coarse SAND.			
8.00-9.00 B2		44.80	8.00 (1.15)		Brownish grey very sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of mixed lithologies.			
		43.65	9.15 (1.35)		No recovery.			
		42.30	10.50		End of Borehole at 10.50 m			

Start & End of Shift Observations

Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
15/11/2012	0600	9.00	9.00	dry
15/11/2012	2000	9.00	9.00	3.93
16/11/2012	0600	10.50	9.00	dry

Depth/Casing Diameter

Depth (m)	Casing Diameter (mm)
9.00	140

Depth/Borehole Diameter

Depth (m)	Borehole Diameter (mm)
1.20	500
10.50	140

Remarks:

Borehole continued from WS9, see WS9 log for details.
Open hole from GL to 7.65m depth.
Borehole terminated at 10.50m depth due to cobbles and gravel getting caught in the casing.
No groundwater encountered.
Borehole collapsed back to 9.00m depth.
Borehole installed with 19mm piezometer standpipe as shown on completion.
SPT hammer ID: RD001. Energy Ratio, Er=83%.

Release Status: Final

COSTAIN Environmental Services	Contract Name: Little Eaton Economy GI		Client: A-one+	Borehole ID: WS1
	Contract Number: 4217	Date Started: 14/11/2012	Logged By: WA	Checked By: FS
				Sheet 1 of 1
Dynamic Sampler Borehole Log	Easting: 436255.6	Northing: 339999.2	Ground Level (mOD): 56.12	Plant Used: Dart
				Scale: 1:55

Samples & In Situ Testing		Strata Details					Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description		Water Strike(s)	Backfill/ Installation
0.00-0.30 B1		55.97	0.15		MADE GROUND: Grass over grey gravelly very silty SAND. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of limestone. (TOPSOIL)			
0.40-0.70 B3 0.50 D2			(0.55)					
0.60 D4		55.42	0.70		MADE GROUND: Grey very gravelly silty SAND. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of limestone with gravel size fragments of brick and ceramic tile.			
0.70-1.00 B5 1.00 D6			(0.50)			1		
1.20-1.35 ES7	SPT(C)@1.20m, N=45 (11,22,19,11,8,7)	54.92	1.20					
		54.77	1.35		MADE GROUND: Brownish grey very gravelly silty SAND. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of limestone.			
1.50-1.75 B8 1.50-1.75 D9			(0.40)					
		54.37	1.75		MADE GROUND: Brownish grey and grey, slightly sandy GRAVEL. Sand is fine to coarse with ash. Gravel is angular to subangular, fine to coarse of flint, limestone and quartzite.	2		
2.00-2.20 ES10 2.20-2.60 B11	SPT(C)@2.00m, N=17 (4,3,4,5,4,4)							
2.60-2.70 D12					MADE GROUND: Stiff friable brownish grey slightly gravelly sandy CLAY. Sand is fine. Gravel is angular to subangular, fine to coarse of quartzite and sandstone. (At 1.65m depth, 1 no. sandstone cobble)			
3.00-3.20 ES13 3.20-3.60 B14	SPT(C)@3.00m, N=34 (8,12,10,10,8,6)					3		
			(3.35)		MADE GROUND: Stiff friable, greyish brown slightly sandy slightly gravelly CLAY. Sand is fine. Gravel is angular to subangular, fine to coarse of coal, brick, quartzite and sandstone.			
3.60-3.70 D15								
4.00-4.20 ES16 4.20-4.60 B17	SPT(C)@4.00m, N=12 (3,4,2,4,3,3)					4		
4.60-4.70 D18								
	SPT(C)@5.00m, 50/95mm (4,8,11,39)	51.02	5.10		End of Borehole at 5.10 m	5		
						6		
						7		
						8		
						9		
						10		

Start & End of Shift Observations

Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
15/11/2012	0600	5.10	-	dry

Depth/Casing Diameter

Depth (m)	Casing Diameter (mm)

Depth/Borehole Diameter

Depth (m)	Borehole Diameter (mm)
1.20	300
2.00	101
5.00	87

Remarks:

Windowless sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Borehole terminated at 5.10m depth on SPT refusal.
No groundwater encountered.
Borehole backfilled with bentonite on completion.
SPT Hammer ID: SGT03. Er: 81%

Release Status: Final

COSTAIN
Environmental Services

Dynamic Sampler Borehole Log

Contract Name:		Client:		Borehole ID:
Little Eaton Economy GI		A-one+		WS2
Contract Number:	Date Started:	Logged By:	Checked By:	Sheet 1 of 1
4217	19/11/2012	NB	FS	
Easting:	Northing:	Ground Level (mOD):	Plant Used:	Scale:
436261.6	340006.4	52.68	HH WS	1:18

Samples & In Situ Testing		Strata Details					Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description		Water Strike(s)	Backfill/ Installation
0.20-0.50 B1		52.53	0.15		MADE GROUND: Grass over greyish brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of sandstone and limestone. Frequent roots. (TOPSOIL)			
0.50 D2 0.55-1.00 B3		52.33	0.35		MADE GROUND: Brownish yellow very gravelly very silty SAND. Sand is fine to medium. Gravel is angular to subangular, fine to coarse of sandstone and limestone. Frequent roots.			
			(0.95)		MADE GROUND: Yellowish brown very gravelly silty SAND with high cobble content. Sand is fine to medium. Gravel is angular to subangular, fine to coarse of limestone and sandstone. Cobbles are angular of limestone and sandstone.			
1.00 D4						1		
1.30 D5		51.38	1.30		End of Borehole at 1.30 m			
						2		

Start & End of Shift Observations

Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
19/11/2012	1700	1.30	0.00	dry

Depth/Casing Diameter

Depth (m)	Casing Diameter (mm)

Depth/Borehole Diameter

Depth (m)	Borehole Diameter (mm)
1.20 1.30	500 80

Remarks:

Windowless sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Hole advanced using hand held equipment.
Windowless sampler refused at 1.30m depth.
No groundwater encountered.
Hole backfilled with arisings and bentonite pellets on completion.

Release Status: Final

COSTAIN
Environmental Services

Dynamic Sampler Borehole Log

Contract Name:		Client:		Borehole ID:
Little Eaton Economy GI		A-one+		WS3
Contract Number:	Date Started:	Logged By:	Checked By:	Sheet 1 of 1
4217	19/11/2012	NB	FS	
Easting:	Northing:	Ground Level (mOD):	Plant Used:	Scale:
436269.6	340011.4	50.25	HH WS	1:18

Samples & In Situ Testing		Strata Details					Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description		Water Strike(s)	Backfill/ Installation
		50.15	0.10		TOPSOIL: Vegetation over soft grey slightly sandy silty CLAY.			
0.20-0.50 B1			(0.40)		Soft to firm grey locally mottled orangish grey, slightly sandy slightly gravelly silty CLAY. Sand is fine to medium. Gravel is subangular to subrounded, fine to coarse of mudstone, sandstone and limestone.			
0.50 D2 0.50-1.00 B3		49.75	0.50		Firm brownish grey mottled orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone, mudstone and siltstone.			
1.00 D4			(1.00)			1		
1.20 D5								
1.50 D6		48.75	1.50		Brown very sandy very clayey GRAVEL. Sand is fine to coarse. Gravel is subangular to rounded, fine to coarse of limestone, mudstone and sandstone.			
1.90 D7								
2.00-2.50 B8			(1.00)			2		
2.50 D9		47.75	2.50		End of Borehole at 2.50 m			

Start & End of Shift Observations

Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
19/11/2012	1700	2.50	-	0.60

Depth/Casing Diameter

Depth (m)	Casing Diameter (mm)

Depth/Borehole Diameter

Depth (m)	Borehole Diameter (mm)
1.20	500
2.50	80

Remarks:

Windowless sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Hole advanced using hand held equipment.
Windowless sampler refused at 2.50m depth.
Groundwater encountered at 1.10m depth, rising to 0.70m depth after 20 minutes.
Hole backfilled with arisings and bentonite pellets on completion.

Release Status: Final

COSTAIN Environmental Services	Contract Name: Little Eaton Economy GI		Client: A-one+	Borehole ID: WS4
	Contract Number: 4217	Date Started: 19/11/2012	Logged By: NB	Checked By: FS
				Sheet 1 of 1
Dynamic Sampler Borehole Log	Easting: 436277.4	Northing: 340006.6	Ground Level (mOD): 52.79	Plant Used: HH WS
				Scale: 1:18

Samples & In Situ Testing		Strata Details					Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description		Water Strike(s)	Backfill/ Installation
		52.69	0.10		MADE GROUND: Dark brown slightly gravelly sandy SILT. Sand is fine to medium. Gravel is angular to subangular, fine to medium of limestone. Frequent roots. (TOPSOIL)			
0.20-0.50 D1			(0.50)		MADE GROUND: Brownish grey gravelly silty SAND with medium cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of limestone. Cobbles are angular of limestone.			
0.50 D2								
0.60-1.00 B3		52.19	0.60		MADE GROUND: Light greyish brown very sandy silty GRAVEL with occasional cobbles. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of limestone. Cobbles are angular of limestone.			
1.00 D4			(0.80)			1		
1.40 D5		51.39	1.40		End of Borehole at 1.40 m			
						2		

Start & End of Shift Observations				
Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
19/11/2012	1700	1.40	-	dry

Depth/Casing Diameter	
Depth (m)	Casing Diameter (mm)

Depth/Borehole Diameter	
Depth (m)	Borehole Diameter (mm)
1.20 1.40	500 80

Remarks:

Windowless sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Hole advanced using hand held equipment.
Windowless sampler refused at 1.40m depth.
No groundwater encountered.
Hole backfilled with arisings and bentonite pellets on completion.

Release Status: Final

COSTAIN Environmental Services	Contract Name: Little Eaton Economy GI		Client: A-one+	Borehole ID: WS5
	Contract Number: 4217	Date Started: 12/11/2012	Logged By: SI	Checked By: FS
				Sheet 1 of 1
Dynamic Sampler Borehole Log	Easting: 436300.3	Northing: 339999.6	Ground Level (mOD): 54.36	Plant Used: Geo
				Scale: 1:55

Samples & In Situ Testing		Strata Details				Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description	Water Strike(s)	Backfill/ Installation
0.00-0.50 B1 0.00-0.50 D2			(0.55)		MADE GROUND: Grass over soft dark brown slightly gravelly sandy CLAY with occasional roots and rootlets. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of brick and limestone.		
0.55-1.20 B3 0.55-1.20 D4		53.81	0.55				
			(0.65)		MADE GROUND: Brown gravelly silty SAND with low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of limestone. Cobbles are subangular of limestone.		
1.20-1.30 ES5 1.30-1.40 D6 1.40-1.60 B7	SPT(C)@1.20m, N=93 (5,20,17,22,28,26)	53.16	1.20				
	SPT(C)@1.65m, 50/235mm (22,18,14,15,16,5)		(0.45)		MADE GROUND: (Very dense) light grey SAND and GRAVEL. Sand is fine to medium of ash. Gravel is subangular, fine to medium of concrete and clinker.		
		52.71	1.65				
			(0.39)		No recovery.		
		52.32	2.04		End of Borehole at 2.04 m		

1 2 3 4 5 6 7 8 9 10

Start & End of Shift Observations				
Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
13/11/2012	0600	2.04	-	dry

Depth/Casing Diameter	
Depth (m)	Casing Diameter (mm)

Depth/Borehole Diameter	
Depth (m)	Borehole Diameter (mm)
1.20 1.60	500 87

Remarks:

Windowless sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Borehole terminated at 2.04m depth on SPT refusal.
No groundwater encountered.
Borehole backfilled with bentonite pellets on completion.
SPT Hammer ID: SGT01. Er: 71%

Release Status: Final

COSTAIN Environmental Services	Contract Name: Little Eaton Economy GI		Client: A-one+		Borehole ID: WS6
	Contract Number: 4217	Date Started: 19/11/2012	Logged By: NB	Checked By: FS	Sheet 1 of 1
Dynamic Sampler Borehole Log	Easting: 436311.9	Northing: 340005.0	Ground Level (mOD): 51.54	Plant Used: HH WS	Scale: 1:18

Samples & In Situ Testing		Strata Details					Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description		Water Strike(s)	Backfill/ Installation
					MADE GROUND: Dark brown slightly gravelly sandy SILT. Sand is fine to medium. Gravel is angular to subangular, fine to medium of sandstone and limestone.			
0.20-0.40 B1		51.39	0.15					
			(0.25)		MADE GROUND: Brownish grey gravelly silty SAND with low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of limestone and gravel sized fragments of brick and concrete. 1 no. whole brick. Cobbles are angular of limestone.			
0.40 D2 0.40-0.90 B3		51.14	0.40					
					MADE GROUND: Light greyish brown very sandy silty GRAVEL with low to medium cobble content. Sand is fine to coarse. Gravel is angular, fine to coarse of limestone. Cobbles are angular of limestone.			
			(0.85)					
1.00 D4						1		
1.25 D5		50.29	1.25		End of Borehole at 1.25 m			
						2		

Start & End of Shift Observations				
Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
19/11/2012	1700	1.25	-	dry

Depth/Casing Diameter	
Depth (m)	Casing Diameter (mm)

Depth/Borehole Diameter	
Depth (m)	Borehole Diameter (mm)
1.20 1.25	500 80

Remarks:

Windowless sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Hole advanced using hand held equipment.
Windowless sampler refused at 1.25m depth.
No groundwater encountered.
Hole backfilled with arisings and bentonite pellets on completion.

Release Status: Final

COSTAIN
Environmental Services

Dynamic Sampler Borehole Log

Contract Name:		Client:		Borehole ID:
Little Eaton Economy GI		A-one+		WS7
Contract Number:	Date Started:	Logged By:	Checked By:	Sheet 1 of 1
4217	20/11/2012	NB	FS	
Easting:	Northing:	Ground Level (mOD):	Plant Used:	Scale:
436329.5	340008.1	51.98	HH WS	1:18

Samples & In Situ Testing		Strata Details					Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description		Water Strike(s)	Backfill/ Installation
0.10-0.50 B1		51.88	0.10		MADE GROUND: Grass over (soft) dark brown slightly sandy silty CLAY. Sand is fine. Frequent roots. (TOPSOIL)			
			(0.40)		MADE GROUND: Greyish brown very sandy silty GRAVEL. Sand is fine to coarse. Gravel is angular, fine to coarse of limestone and sandstone.			
0.50 D2 0.50-1.00 B3		51.48	0.50		Firm to stiff, orangish brown mottled dark brown slightly sandy slightly gravelly silty CLAY with occasional cobbles. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of mudstone and sandstone.			
1.00 D4			(0.90)			1		
1.20 D5 1.20 D6								
		50.58	1.40		Firm orangish brown mottled grey slightly sandy CLAY. Sand is fine to medium. Occasional decomposed roots <3mm diameter.			
1.80 D7			(0.60)					
		49.98	2.00		Soft dark grey very sandy CLAY. Sand is fine to coarse. Frequent decomposed roots, <3mm diameter.	2		
2.40 D8			(0.60)					
		49.38	2.60		Brown very sandy slightly clayey GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of mudstone, sandstone and limestone.			
2.90 D9		49.08	(0.30) 2.90		End of Borehole at 2.90 m			

Start & End of Shift Observations

Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
20/11/2012	1800	2.90	-	1.00

Depth/Casing Diameter

Depth (m)	Casing Diameter (mm)

Depth/Borehole Diameter

Depth (m)	Borehole Diameter (mm)
1.20	500
2.00	80
2.90	70

Remarks:

Window sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Hole advanced using hand held window sampling equipment.
Equipment refused at 2.90m depth.
Groundwater encountered at 2.40m depth, rising to 1.00m after 20 minutes.
Hole backfilled with bentonite pellets on completion.

Release Status: Final

COSTAIN Environmental Services	Contract Name: Little Eaton Economy GI		Client: A-one+	Borehole ID: WS8
	Contract Number: 4217	Date Started: 20/11/2012	Logged By: NB	Checked By: FS
				Sheet 1 of 1
Dynamic Sampler Borehole Log	Easting: 436344.5	Northing: 340010.8	Ground Level (mOD): 51.10	Plant Used: HH WS
				Scale: 1:18

Samples & In Situ Testing		Strata Details					Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description		Water Strike(s)	Backfill/ Installation
0.10-0.50 B1		51.00	0.10		TOPSOIL: Grass over soft dark brown slightly sandy CLAY. Sand is fine.			
			(0.40)		Firm brown slightly sandy slightly gravelly very silty CLAY with rare cobbles. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone, limestone and mudstone.			
0.50 D2 0.50-1.00 D3		50.60	0.50		Firm brown mottled grey brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone and mudstone.			
1.00 D4			(1.10)		(Below 1.00m depth, orangish brown mottled grey)	1		
1.20 D5								
1.50 D6								
		49.50	1.60		Brown locally mottled orangish brown gravelly very clayey SAND. Sand is fine to coarse. Gravel is angular to subrounded, fine to medium of limestone, mudstone and sandstone.			
2.00 D7			(0.70)			2		
		48.80	2.30		Soft brown very sandy silty CLAY. Sand is fine to medium.			
2.50 D8			(0.40)					
		48.40	2.70		Grey brown sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to rounded, fine to coarse of limestone and mudstone.			
			(0.30)					
3.00 D9		48.10	3.00		End of Borehole at 3.00 m			

Start & End of Shift Observations

Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
20/11/2012	1800	3.00	-	1.00

Depth/Casing Diameter

Depth (m)	Casing Diameter (mm)

Depth/Borehole Diameter

Depth (m)	Borehole Diameter (mm)
1.20	500
2.00	80
3.00	70

Remarks:

Window sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Hole advanced using hand held window sampling equipment.
Equipment refused at 3.00m depth.
Groundwater encountered at 2.00m depth, rising to 1.00m after 20 minutes.
Hole backfilled with bentonite pellets on completion.

Release Status: Final

COSTAIN

Environmental Services

Dynamic Sampler Borehole Log

Contract Name:		Client:		Borehole ID:
Little Eaton Economy GI		A-one+		WS10
Contract Number:	Date Started:	Logged By:	Checked By:	Sheet 1 of 1
4217	15/11/2012	WA	FS	
Easting:	Northing:	Ground Level (mOD):	Plant Used:	Scale:
436379.8	340040.1	52.68	Dart	1:55

Samples & In Situ Testing		Strata Details				Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description	Water Strike(s)	Backfill/ Installation
0.20-0.50 B1		52.58	0.10		MADE GROUND: Grass over brown slightly sandy CLAY. Sand is fine to medium. Frequent roots. (TOPSOIL)		
0.50 D2 0.50-1.00 B3			(1.10)		MADE GROUND: Brown very gravelly very clayey SAND. Sand is fine to coarse. Gravel is angular, fine to coarse of limestone, mudstone, sandstone with gravel sized fragments of brick, ceramic and concrete. (Between 0.10m and 0.30m depth, 2 no. angular cobbles of concrete) (Between 0.50m and 1.00m depth, sandy gravelly silty clay) (At 0.70m depth, 1 no. angular cobble of limestone)		
1.00 D4 1.20-1.65 D5	SPT(C)@1.20m, N=43 (3,4,5,12,13,13)	51.48	1.20				
1.20-1.40 ES6 1.40-1.60 ES7 1.60-1.70 D8 1.70-2.40 B9		51.28	1.40				
	SPT(C)@1.80m, 50/180mm (12,21,20,21,9)				MADE GROUND: (Stiff) friable brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is angular to subangular, fine to medium of ceramic, coal and sandstone. Reworked texture.		
2.40-2.60 ES10 2.60-2.70 D11 2.70-3.30 B12	SPT(C)@2.20m, N=86 (16,24,25,20,20,21)		(1.90)				
	SPT(S)@3.00m, N=14 (15,6,4,4,3,3)				MADE GROUND: Brownish grey very gravelly silty SAND. Sand is fine with ash. Gravel is angular to subangular, fine to coarse of concrete, quartzite and sandstone. (Between 1.80m and 2.65m depth, very dense)		
3.30-3.40 D13 3.40-3.60 ES14 3.60-4.47 B15		49.38	3.30		Firm to stiff indistinctly fissured light brown mottled bluish grey slightly sandy CLAY with rare angular to subangular fine gravel of mixed lithologies.		
4.00-4.45 D16	SPT(S)@4.00m, N=8 (1,2,2,2,2,2)		(1.17)				
4.47-4.70 D17		48.21	4.47 (0.23)		Brown fine to coarse SAND.		
4.70-4.86 D18 4.86-5.00 D19		47.98 47.82	4.70 4.86		Firm to stiff dark grey sandy CLAY. Sand is fine to medium.		
	SPT(C)@5.00m, 53/255mm (8,11,13,16,15,9)	47.68	5.00				
			(0.41)		Very dark grey fine to coarse SAND. Rare shell fragments, 37x7x40mm.		
		47.27	5.41		No recovery.		
					End of Borehole at 5.41 m		

Start & End of Shift Observations

Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
16/11/2012	0600	5.41	-	dry

Depth/Casing Diameter

Depth (m)	Casing Diameter (mm)

Depth/Borehole Diameter

Depth (m)	Borehole Diameter (mm)
1.20 5.00	500 87

Remarks:

Windowless sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Hole terminated at 5.41m depth on SPT refusal.
No groundwater encountered.
Hole backfilled with bentonite pellets on completion.
SPT Hammer ID: SGT03. Er: 81%

Release Status: Final

COSTAIN

Environmental Services

Dynamic Sampler Borehole Log

Contract Name:		Client:		Borehole ID:
Little Eaton Economy GI		A-one+		WS11
Contract Number:	Date Started:	Logged By:	Checked By:	Sheet 1 of 1
4217	12/11/2012	SI	FS	
Easting:	Northing:	Ground Level (mOD):	Plant Used:	Scale:
436438.1	339952.8	51.99	Dart	1:55

Samples & In Situ Testing		Strata Details				Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description	Water Strike(s)	Backfill/ Installation
0.00-0.50 B1			(0.50)		MADE GROUND: Grass over (soft) dark brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of sandstone and limestone.		
0.50 D2 0.50-1.00 B3		51.49	0.50		MADE GROUND: Brown very sandy very silty GRAVEL. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of sandstone and limestone.		
1.00 D4			(0.70)				
1.20-1.65 D5 1.20-1.40 ES6 1.40-1.60 D7 1.60-2.20 B8	SPT(S)@1.20m, N=42 (2,5,6,10,13,13)	50.79	1.20		MADE GROUND: (Medium dense and dense) brown, light brown and light grey very sandy silty GRAVEL with occasional cobbles. Sand is fine to coarse with ash. Gravel is angular to subangular, fine to coarse of sandstone, wood, glass and concrete.		
2.00-2.45 D9	SPT(S)@2.00m, N=27 (6,6,8,8,7,4)		(1.45)				
2.65-2.80 D10		49.34	2.65				
		49.19	2.80		MADE GROUND: (Firm) light orangish brown silty CLAY. (Possible reworked material)		
3.00-3.30 ES11 3.00 W12 3.30-3.50 D13 3.50-4.80 B14	SPT(S)@3.00m, N=1 (0,0,0,0,0,1)				Very dark brownish grey organic clayey SILT. Frequent shell fragments, 14x14x2mm. Rare rounded coarse quartz gravel.		
4.00-4.45 D15	SPT(S)@4.00m, N=2 (0,1,1,0,1,0)		(2.00)				
	SPT(C)@4.80m, N=48 (9,12,14,13,10,11)	47.19	4.80		No recovery.		
	SPT(C)@5.20m, 50/235mm (10,12,15,14,15,6)	46.79	(0.40) 5.20		End of Borehole at 5.20 m		

Start & End of Shift Observations				
Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
13/11/2012	0600	5.20	-	3.00

Depth/Casing Diameter	
Depth (m)	Casing Diameter (mm)

Depth/Borehole Diameter	
Depth (m)	Borehole Diameter (mm)
1.20 2.00 5.20	500 101 87

Remarks:

Windowless sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Borehole terminated at 5.20m depth on SPT refusal.
Groundwater encountered at 4.40m depth, rising to 3.00m after 20 minutes.
Borehole installed with 19mm piezometer standpipe as shown on completion.
SPT Hammer ID: SGT03. Er: 81%

Release Status: Final

COSTAIN Environmental Services	Contract Name: Little Eaton Economy GI		Client: A-one+	Borehole ID: WS12
	Contract Number: 4217	Date Started: 14/11/2012	Logged By: WA	Checked By: FS
				Sheet 1 of 1
Dynamic Sampler Borehole Log	Easting: 436391.2	Northing: 339918.5	Ground Level (mOD): 51.78	Plant Used: Dart
				Scale: 1:35

Samples & In Situ Testing		Strata Details					Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description		Water Strike(s)	Backfill/ Installation
0.00-0.50 B1			(0.50)		MADE GROUND: Dark brown slightly gravelly clayey SAND. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of brick, sandstone and limestone.			
0.50 D2 0.50-1.00 B3		51.28	0.50 (0.70)		MADE GROUND: (Soft) brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of limestone. (Possible reworked material)			
1.00 D4						1		
1.20-1.65 D5	SPT(S)@1.20m, N=10 (3,4,2,3,3,2)	50.58	1.20		No Recovery			
1.40-1.60 ES6 1.60-1.70 D7 1.70-2.00 B8		50.38	1.40 (0.60)		MADE GROUND: Dark reddish brown very gravelly locally clayey SAND. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of sandstone.			
2.00-2.45 D9	SPT(S)@2.00m, N=4 (1,1,0,1,1,2)	49.78	2.00 (0.40)		No Recovery	2		
2.40-2.60 D10		49.38	2.40		MADE GROUND: Dark reddish brown slightly gravelly locally slightly clayey SAND. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of sandstone. (At 2.40m depth, frequent coal and ceramic fragments, slightly ashy, probable material fallen down hole)			
2.60-3.00 B11		49.18	2.60 (0.40)					
3.00-3.45 D12	SPT(S)@3.00m, N=10 (2,2,2,2,2,4)	48.78	3.00 (0.45)		Firm to stiff brown locally mottled bluish grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular, fine of coal.	3		
3.45-3.70 D13		48.33	3.45		No Recovery			
3.70-4.00 B14			(0.55)		Firm to stiff brown locally mottled bluish grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular, fine of coal. (At 3.45m depth, ceramic and coal fragments in liner, moderate hydrocarbon odour, probable collapse and fallen down hole)			
4.00-4.45 D15 4.00-4.15 D17 4.10 W16 4.25-4.80 D18	SPT(S)@4.00m, N=6 (1,1,1,1,1,3)	47.78 47.63	4.00 4.15		Loose dark greyish brown clayey SAND. Sand is fine to coarse.	4		
			(0.65)		Dark grey and greyish brown slightly clayey SAND and GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of mixed lithologies.			
	SPT(C)@4.80m, 50/200mm (12,14,16,16,18)	46.98	4.80 (0.45)		No recovery.	5		
		46.53	5.25		End of Borehole at 5.25 m			
						6		

Start & End of Shift Observations

Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
15/11/2012	0600	5.25	-	dry

Depth/Casing Diameter

Depth (m)	Casing Diameter (mm)

Depth/Borehole Diameter

Depth (m)	Borehole Diameter (mm)
1.20	500
2.00	101
3.00	87
4.00	77

Remarks:

Windowless sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Borehole terminated at 5.25m depth on SPT refusal.
Groundwater encountered at 4.20m depth, rising to 2.50m after 20 minutes.
Borehole installed with 19mm piezometer standpipe on completion as shown.
SPT Hammer ID: SGT03. Er: 81%

Release Status: Final

COSTAIN
Environmental Services

Contract Name:		Client:		Borehole ID:
Little Eaton Economy GI		A-one+		WS13
Contract Number:	Date Started:	Logged By:	Checked By:	Sheet 1 of 1
4217	15/11/2012	SI	FS	
Dynamic Sampler Borehole Log	Easting:	Northing:	Ground Level (mOD):	Plant Used:	Scale:
	436384.4	339884.8	51.25	Geo	1:55

Samples & In Situ Testing		Strata Details				Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description	Water Strike(s)	Backfill/ Installation
0.00-0.30 B1 0.20 D2		50.95	(0.30) 0.30		MADE GROUND: Dark brown slightly gravelly clayey SAND. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of brick and limestone.		
0.50 D3 0.50-1.20 B4			(0.90)		MADE GROUND: Brown slightly gravelly silty SAND with low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of limestone. (Possible reworked deposits)		
1.00 D5 1.20-1.40 ES6 1.40-1.60 D7 1.60-2.30 B9	SPT(C)@1.20m, N=5 (2,1,1,1,1,2)	50.05	1.20 (1.10)		MADE GROUND: (Loose) reddish brown and grey gravelly silty SAND. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of quartzite, sandstone and shell fragments. Frequent cobble sized sandstone fragments, 150x80x60mm.		
2.00-2.45 D8 2.30-2.40 D10 2.40-2.80 B11 2.80-3.00 ES12	SPT(S)@2.00m, N=8 (1,1,1,2,2,3)	48.95	2.30		Firm to stiff, fissured, orangish brown mottled bluish grey slightly sandy slightly gravelly CLAY. Sand is fine. Gravel is angular to subangular, fine of coal and mudstone.		
3.00-3.45 D13 3.00-3.20 D14 3.20-3.80 B15	SPT(S)@3.00m, N=10 (1,2,2,2,3,3)		(1.50)		(Below 3.20m depth, slightly sandy slightly gravelly silty clay)		
3.80-3.90 D16 3.90-4.90 B18 4.00-4.45 D17 4.10 W19	SPT(S)@4.00m, N=24 (4,5,7,6,5,6)	47.45 47.35	3.80 3.90 (1.10)		Dark grey organic SILT. Dark grey and brown SAND and GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of mixed lithologies. (Between 4.00 and 4.45m depth, medium dense)		
4.90-5.00 D20	SPT(C)@5.00m, 50/235mm (10,11,12,15,17,6)	46.25 45.86	5.00 (0.39) 5.39		No recovery. End of Borehole at 5.39 m		

Start & End of Shift Observations				
Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
16/11/2012	0030	5.39	-	2.45

Depth/Casing Diameter	
Depth (m)	Casing Diameter (mm)

Depth/Borehole Diameter	
Depth (m)	Borehole Diameter (mm)
1.20	500
2.00	101
3.00	87
4.00	77

Remarks:

Windowless sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Borehole terminated at 5.39m depth on SPT refusal.
Groundwater encountered at 4.10m depth, rising to 2.45m depth after 20 minutes.
Borehole backfilled with bentonite pellets on completion.
SPT Hammer ID: SGT01. Er: 71%

Release Status: Final

COSTAIN Environmental Services	Contract Name: Little Eaton Economy GI		Client: A-one+	Borehole ID: WS14
	Contract Number: 4217	Date Started: 13/11/2012	Logged By: SI	Checked By: FS
				Sheet 1 of 1
Dynamic Sampler Borehole Log	Easting: 436422.4	Northing: 339923.5	Ground Level (mOD): 51.61	Plant Used: Geo
				Scale: 1:55

Samples & In Situ Testing		Strata Details					Groundwater	
Sample ID	Test Result	Level (m AOD)	Depth (m) (thickness)	Legend	Strata Description		Water Strike(s)	Backfill/ Installation
0.00-0.50 B1			(0.50)		MADE GROUND: Grass over dark brown slightly gravelly clayey SAND. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of sandstone and limestone. Occasional glass fragments.			
0.50 D2 0.50-1.00 B3		51.11	0.50					
1.00 D4			(0.70)		MADE GROUND: Dark brown gravelly silty SAND with occasional cobbles. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse of sandstone and limestone. (Possible reworked deposits)	1		
1.20-1.40 D5 1.40-1.60 ES6 1.60-2.50 B7	SPT(C)@1.20m, N=17 (2,3,3,5,5,4)	50.41	1.20					
2.00-2.45 D8	SPT(S)@2.00m, N=5 (1,2,2,1,1,1)		(1.30)		MADE GROUND: (Medium dense) brown and grey brown slightly clayey SAND and GRAVEL. Sand is fine to coarse with ash. Gravel is angular to subangular, fine to coarse of sandstone and quartzite. (Below 2.00m depth, loose)	2		
2.50-2.60 D9 2.60-2.80 ES10 2.80-3.80 B11		49.11	2.50		Very dark grey slightly gravelly clayey SILT. Gravel is angular to subangular, fine of coal and rare shell fragments.			
3.00-3.45 D12 3.10 W13	SPT(S)@3.00m, N=0 (0,0,0,0,0,0)					3		
3.80-3.90 D14 3.90-4.40 B15 4.00-4.45 D16	SPT(S)@4.00m, N=2 (0,0,0,0,1,1)		(1.90)			4		
4.40-4.90 B17		47.21	4.40		Very dark grey slightly gravelly SAND. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of mixed lithologies.			
	SPT(C)@4.90m, 50/230mm (10,13,15,16,15,4)	46.71	(0.50) 4.90		No recovery.	5		
		46.26	(0.45) 5.35		End of Borehole at 5.35 m			
						6		
						7		
						8		
						9		
						10		

Start & End of Shift Observations

Date	Time	Borehole Depth (m)	Depth of Casing (m)	Water Depth (m)
13/11/2012	0600	5.35	-	2.14

Depth/Casing Diameter

Depth (m)	Casing Diameter (mm)

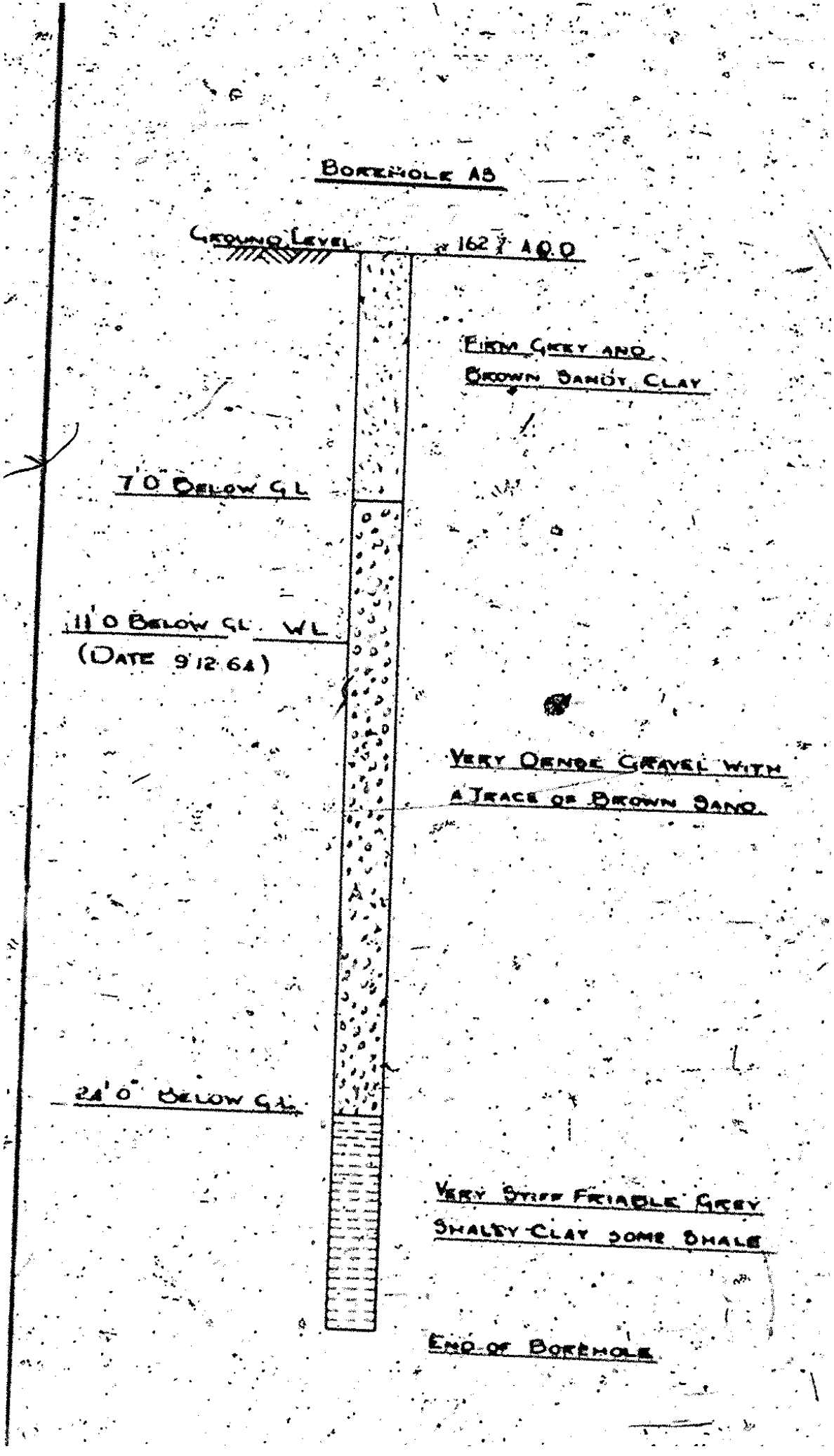
Depth/Borehole Diameter

Depth (m)	Borehole Diameter (mm)
1.20	500
2.00	101
4.00	87
4.90	69

Remarks:

Windowless sampler location CAT scanned, no services indicated.
Hand dug inspection pit to 1.20m depth, no services encountered.
Borehole terminated at 5.35m depth on SPT refusal.
Groundwater encountered at 3.10m depth, rising to 2.70m after 20 minutes.
Borehole backfilled with bentonite pellets on completion.
SPT Hammer ID: SGT01. Er: 71%

Release Status: Final


BOREHOLE A8
GROUND LEVEL
+162.7 A.O.D
FIRM GREY AND BROWN SANDY CLAY
7'0" BELOW G.L
11'0 BELOW G.L. W.L
(DATE 9.12.64)
VERY DENSE GRAVEL WITH A TRACE OF BROWN SAND
24'0" BELOW G.L
VERY STIFF FRIABLE GREY SHALEY CLAY SOME SHALE
END OF BOREHOLE

CMT (Testing) Limited

Site	Borehole Number
Alfreton Road, Little Eaton, Derbyshire	CP1

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			AJS Structural Design	42108
	Location	**Dates**	**Engineer**	**Sheet**
	As specified on site 1	02/07/2012		1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						0.30	MADE GROUND (brown slightly sandy slightly gravelly silt with organic matter)		
0.50	D1						MADE GROUND (soft brown and black clay with wood, metal, bricks, concrete, possible railway sleepers and rubber) .		
1.00-1.45	SPT N=18	1.00		1,2/5,8,3,2					
1.00	D2								
1.00-2.00	B3								
2.00-2.45	SPT N=10	2.00		1,2/2,2,3,3					
2.00	D4								
3.00-3.45	SPT N=10	3.00		5,6/3,2,3,2					
3.00	D5					(5.70)			
4.00-4.45	SPT N=15	4.00		3,2/4,2,3,6					
4.00	D6								
5.00-5.45	SPT N=18	5.00		4,4/5,4,4,5					▽1
5.00	D7								
8.00	D8			slow(1) at 6.00m, rose to 5.10m in 20 mins, sealed at 6.50m.		6.00	MADE GROUND (soft black slightly gravelly silty clay with crushed stone and brick)		▽1
6.00-6.45	SPT N=10	6.00		1,2/2,3,3,2					
7.00-7.45	SPT N=8	7.00		1,1/2,2,2,2		(2.50)			▽2
7.00	D9								
8.00-8.45	SPT N=8	8.00		2,1/2,1,2,3					
8.00	D10								
8.50	D11			fast(2) at 8.50m, rose to 7.30m in 20 mins.		8.50	Medium dense reddish brown slightly cobbly SAND and GRAVEL becoming dense at 12.00m and slightly clayey towards base of hole		▽2
8.50-9.00	B12								
9.00-10.00	B13								
9.00-9.45	SPT N=30	9.00		9,9/7,8,7,8					
10.00-10.45	SPT N=23	10.00		3,4/7,6,5,5					
10.00	D14								
10.00-11.00	B15								
11.00-11.45	SPT N=27	11.00		7,7/8,7,7,7		(4.50)			
11.00-12.00	B16								
12.00-12.45	SPT N=35	12.00		4,3/7,11,9,8					
12.00-13.00	B17								
12.50-12.95	SPT N=31	12.50		4,4/5,7,8,11					
						13.00	Complete at 13.00m		

Remarks
Consistencies of clay in made ground based on visual description only

Scale (approx)	Logged By
1:100	JR

Figure No. 42108.CP1

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CMT (Testing) Limited

Site	Borehole Number
Alfreton Road, Little Eaton, Derbyshire	CP2

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			AJS Structural Design	42108
Location	**Dates**	**Engineer**		**Sheet**
As specified on site 2	04/07/2012			1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						0.30	MADE GROUND (brown slightly sandy slightly gravelly silt with organic matter)		
0.50	D1						MADE GROUND (soft brown and black clay with wood metal, bricks, concrete, possible railway sleepers and rubber)		
1.00-1.45	SPT N=7	1.00		1,1/1,1,3,2					
1.00	D2								
1.00-2.00	B3								
2.00-2.45	SPT N=15	2.00		3,3/3,7,3,2					
2.00	D4								
3.00-3.45	SPT N=17	3.00		3,3/4,7,3,3					
3.00	D5								
4.00-4.45	SPT N=6	4.00		1,2/2,1,1,2					
4.00	D6					(8.30)			
5.00-5.45	SPT N=33	5.00		8,8/8,9,5,11					▽1
5.00	D7								
8.00	D8			Fast(1) at 6.00m, rose to 4.70m in 20 mins.					▽1
6.00-6.45	SPT N=14	8.00		5,5/3,4,3,4					
7.00-7.45	SPT N=11	7.00		6,6/3,3,2,3					
7.00	D9								
8.00-8.45	SPT N=8	8.00		3,3/2,1,3,2					
8.00	D10								
8.60	D11					8.60			
9.00-9.45	SPT N=29	9.00		5,4/7,7,8,7			Medium dense reddish brown slightly cobbly SAND and GRAVEL becoming dense at 9.50m		
9.00-10.00	B12					(1.40)			
9.50-9.95	SPT N=33	9.50		7,7/8,9,8,8					
10.00	D13					10.00	Complete at 10.00m		

Remarks
3 hours standing time - awaiting JCB to tow rig
Consistencies of clay in made ground based on visual description only

Scale (approx)	Logged By
1:100	JR

Figure No. 42108.CP2

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CMT (Testing) Limited

Site	Borehole Number
Alfreton Road, Little Eaton, Derbyshire	CP3

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			AJS Structural Design	42108
	Location As specified on site 3	**Dates** 05/07/2012	**Engineer**	**Sheet** 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50	D1						MADE GROUND (soft brown and black clay with wood, metal, bricks, concrete and crushed stone)		
1.00-1.45	SPT N=4	1.00		1/1,1,1,1					
1.00	D2								
2.00-2.45	SPT N=4	2.00		1,1/1,1,1,1					
2.00	D3								
3.00-3.45	SPT N=7	3.00		1,2/2,2,1,2		(6.30)			
3.00	D4								
4.00-4.45	SPT N=10	4.00		3,3/3,2,2,3					▽1
4.00	D5								
5.00-5.45	SPT N=12	5.00		3,2/4,3,2,3					
5.00	D6								
6.00-6.45	SPT N=31	6.00		4,4/8,8,9,8					▽1
6.00	D7			Fast(1) at 6.20m,		8.30	Dense reddish brown slightly cobbly SAND and GRAVEL		
6.30	D8			rose to 4.50m in 20 mins.					
6.50-6.95	SPT N=30	6.50		4,4/7,7,8,8					
7.00	D9								
7.50-7.95	SPT N=42	7.50		8,9/11,12,11,8					
8.00	D10					(3.70)			
8.50-8.95	SPT N=37	8.50		7,7/8,9,9,11					
9.00	D11								
9.50-9.95	SPT N=38	9.50		7,6/9,9,11,9					
10.00	D12					10.00	Complete at 10.00m		

Remarks
0.5 hour standing time - awaiting JCB to tow rig
Consistencies of clay in made ground based on visual description only

Scale (approx)	Logged By
1:100	JR

Figure No. 42108.CP3

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CMT (Testing) Limited

Site	Borehole Number
Alfreton Road, Little Eaton, Derbyshire	CP4

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion			AJS Structural Design	42108
Location	**Dates**	**Engineer**		**Sheet**
As specified on site 4	05/07/2012			1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						0.30	MADE GROUND (brown slightly sandy slightly gravelly silt with organic matter)		
1.00-1.45	SPT N=9	1.00		1/3,2,2,2			MADE GROUND (soft brown and black clay with wood, metal, bricks, concrete, possible railway sleepers and rubber)		▼1 ▽1
1.00	D1			slow(1) at 1.10m, rose to 0.90m in 20 mins, sealed at 1.50m.					
1.00-2.00	B2								
2.00	D3								
2.00-2.45	SPT N=31	2.00		5,6/11,11,5,4					
3.00-3.31	SPT 25*/5 N=55	3.00		25/18,11,15,11					
3.00	D4								
4.00-4.45	SPT N=24	4.00		5,4/7,3,7,7		(7.40)			
4.00	D5								
5.00-5.45	SPT N=40	5.00		12,13/5,10,15,10					
5.00	D6								▼2
6.00-6.45	SPT N=18	6.00		5,6/7,4,3,4					
6.00	D7								
7.00	D8			fast(2) at 7.00m, rose to 5.50m in 20 mins.					▽2
7.00-7.45	SPT N=28	7.00		5,5/7,7,7,7		7.70	Medium dense reddish brown slightly cobbly SAND and GRAVEL becoming dense at 9.00m		
7.70	D9								
8.00-8.45	SPT N=28	8.00		7,7/5,5,8,10					
8.00	D10								
8.50-9.00	B11					(2.30)			
9.00-9.45	SPT N=33	9.00		8,5/8,8,9,8					
9.00	D12								
9.00-10.00	B13								
9.50-9.95	SPT N=37	10.00		7,7/8,9,9,11					
10.00	D14					10.00	Complete at 10.00m		

Remarks
1 hour chiselling through wood overlying crushed stone for 3m
Consistencies of clay in made ground based on visual description only
Ground waterlogged

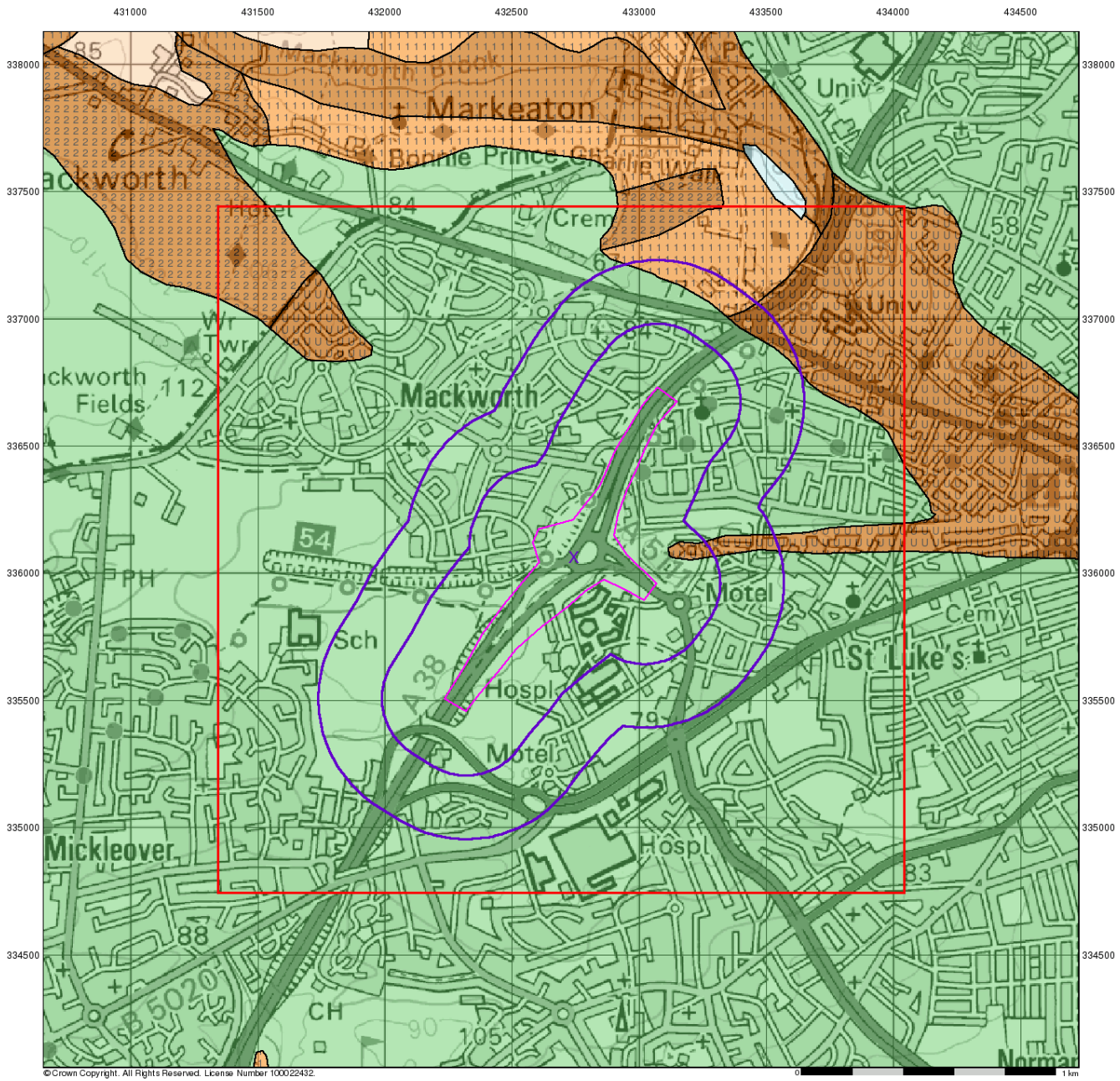
Scale (approx)	Logged By
1:100	JR

Figure No. 42108 CP4

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Appendix D-1

Envirocheck Report - Kingsway



Groundwater Vulnerability

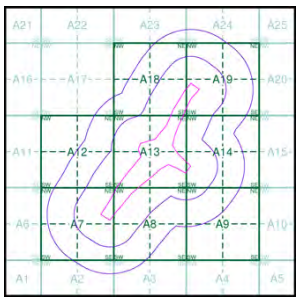
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



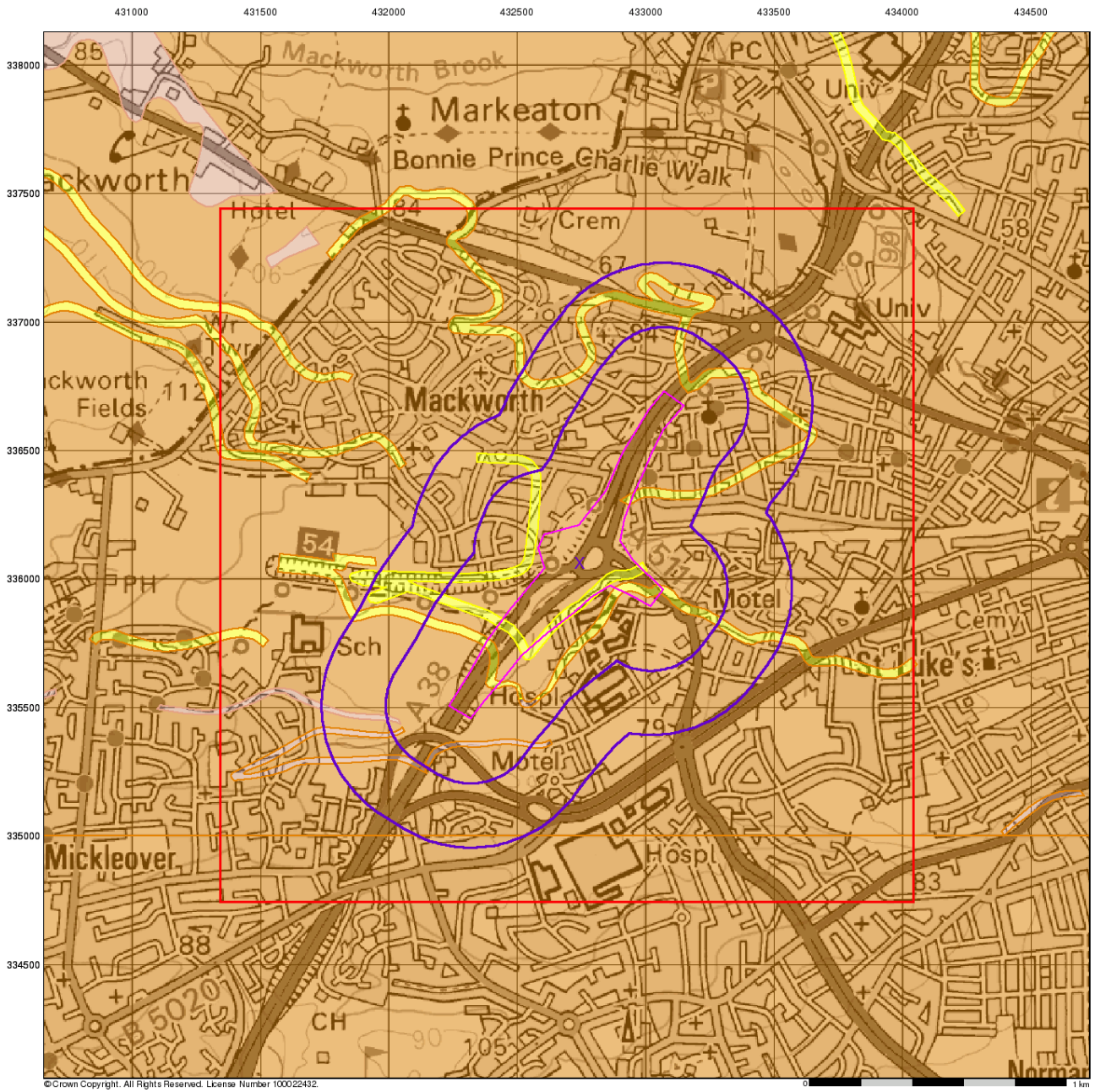
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Bedrock Aquifer Designation

General

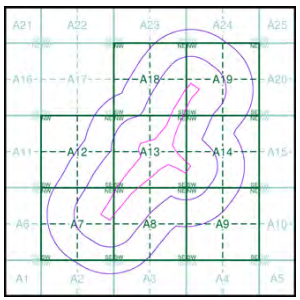
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



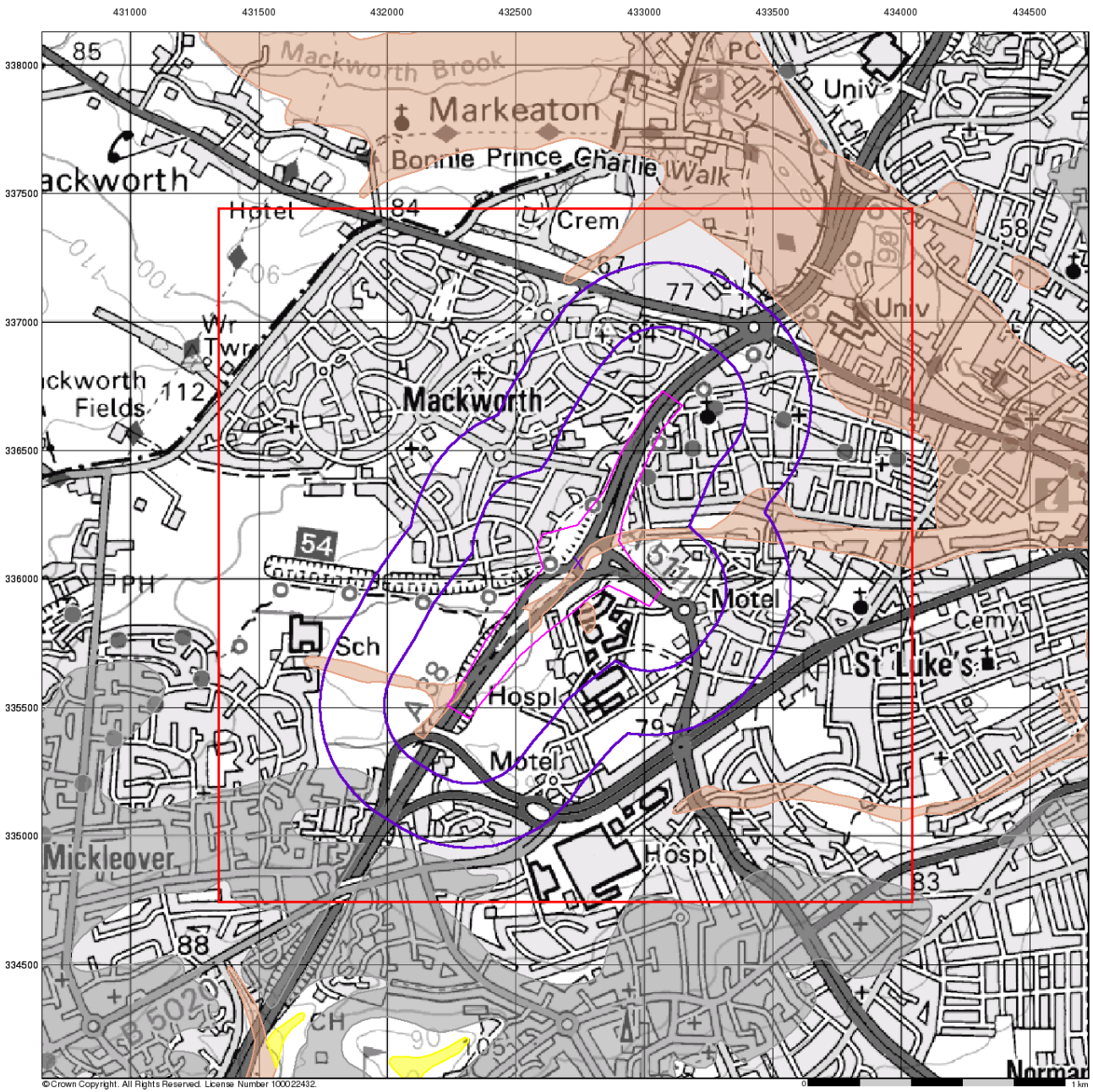
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National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Superficial Aquifer Designation

General

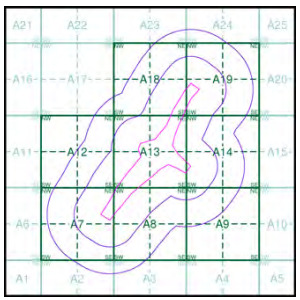
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



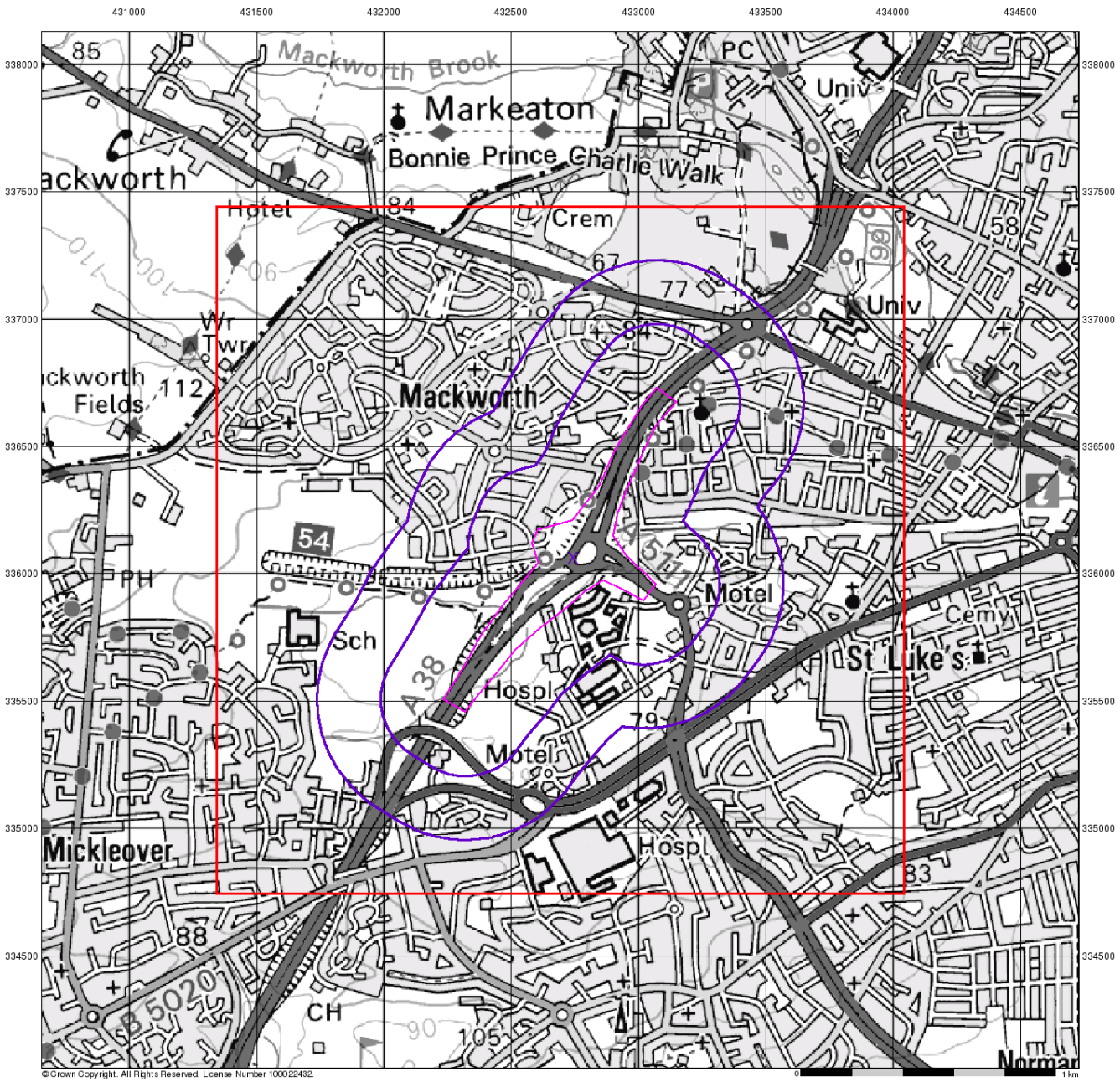
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Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

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Source Protection Zones

General

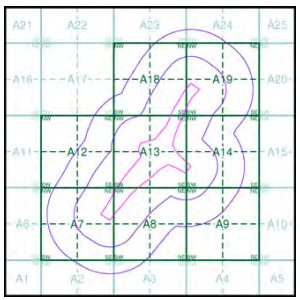
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



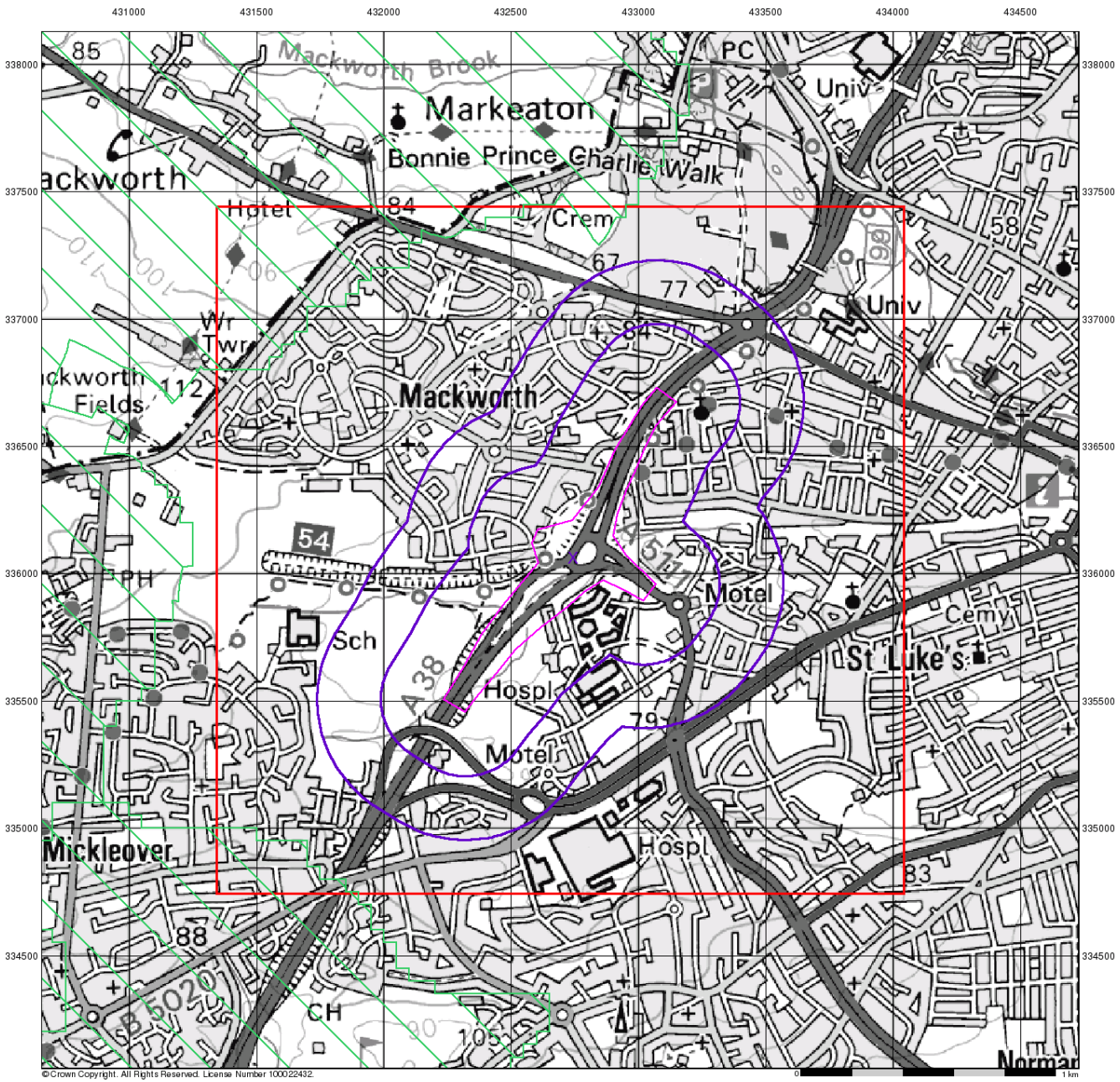
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National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

Sensitive Land Uses

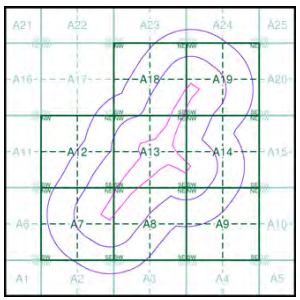
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
60387304_1_1

Customer Reference:
47071637.208APS

National Grid Reference:
432740, 336060

Slice:
A

Site Area (Ha):
24.66

Search Buffer (m):
500

Site Details:

Site at
Derby
City of Derby

Client Details:

Ms J Dawson
URS Infrastructure & Environment UK Ltd
Royal Court
Basil Close
Chesterfield
Derbyshire
S41 7SL

Prepared For:

URS
Royal Court
Basil Close
Chesterfield
Derbyshire
S41 7SL

Contents

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Waste	9
Hazardous Substances	-
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Data Suppliers	39
Useful Contacts	40

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Report Version v49.0

Envirocheck®

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
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Contaminated Land Register Entries and Notices				
Discharge Consents	pg 1	2	2	3
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls	pg 2			2
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature		Yes		
Pollution Incidents to Controlled Waters	pg 3	2	1	2
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality				
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Substantiated Pollution Incident Register				
Water Abstractions				
Water Industry Act Referrals				
Groundwater Vulnerability	pg 3	Yes	n/a	n/a
Bedrock Aquifer Designations	pg 3	Yes	n/a	n/a
Superficial Aquifer Designations	pg 4	Yes	n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences				n/a
Flooding from Rivers or Sea without Defences				n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
Detailed River Network Lines	pg 4	Yes	Yes	Yes
Detailed River Network Offline Drainage	pg 8			Yes

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Waste				
BGS Recorded Landfill Sites	pg 9	1		
Historical Landfill Sites	pg 9	2	2	
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
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Registered Landfill Sites	pg 10		2	1
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				
Hazardous Substances				
Control of Major Accident Hazards Sites (COMAH)				
Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents				
Planning Hazardous Substance Enforcements				
Geological				
BGS 1:625,000 Solid Geology	pg 12	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 12	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 25		1	2
BGS Urban Soil Chemistry	pg 26		Yes	Yes
BGS Urban Soil Chemistry Averages	pg 28	Yes		
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain				n/a
Potential for Collapsible Ground Stability Hazards	pg 28	Yes		n/a
Potential for Compressible Ground Stability Hazards	pg 28	Yes		n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 29	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 29	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 29	Yes		n/a
Radon Potential - Radon Affected Areas			n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Industrial Land Use				
Contemporary Trade Directory Entries	pg 31	1	14	10
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Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones				
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Not Given Location: Mackworth Estate D Section, Outlet 41, DERBY Authority: Environment Agency, Midlands Region Catchment Area: Not Given Reference: T/47/03754/O/4 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 21st May 1974 Revocation Date: Not Supplied Discharge Type: Sewerage And Other Matter Discharge - Sewerage And Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Bramble Brook **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	0	3	432880 336120
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Not Given Location: The New Zealand Area Of, Outlet 42, DERBY Authority: Environment Agency, Midlands Region Catchment Area: Not Given Reference: T/47/03754/O/3 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 21st May 1974 Revocation Date: Not Supplied Discharge Type: Sewerage And Other Matter Discharge - Sewerage And Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Bramble Brook **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	0	3	432900 336130
2	**Discharge Consents** Operator: Mr J R Eccles Property Type: Domestic Property (Single) Location: Rough Heanor Farm, Derby Authority: Environment Agency, Midlands Region Catchment Area: Markeaton Brook Catchment Reference: 3/28/36/2529 Permit Version: 1 Effective Date: 20th February 1974 Issued Date: 20th February 1974 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Underground Strata **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	195	3	432200 335300
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewerage Network - Sewers - Water Company Location: Cheviot Street - Storm O/F & Sws, Cheviot Street, Derby, De22 3ey Authority: Environment Agency, Midlands Region Catchment Area: Markeaton Brook Catchment Reference: T/47/20377/O Permit Version: 1 Effective Date: 6th April 1990 Issued Date: 6th April 1990 Revocation Date: 3rd June 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Bramble Brook **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A14NW (E)	236	3	433190 336170

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewerage Network - Sewers - Water Company Location: Ramscliffe Avenue Donisthorpe Ps Ramscliffe Avenue, Donisthorpe, Derby, Midlands, De22 4fw Authority: Environment Agency, Midlands Region Catchment Area: Not Supplied Reference: Tsc3800 Permit Version: 1 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 12th August 2011 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Salterford Brook **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A12SW (W)	445	3	432010 336000
5	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewerage Network - Pumping Station - Water Company Location: Melbourne Close Ps - Storm O/F, Melbourne Close, Leicestershire Authority: Environment Agency, Midlands Region Catchment Area: Trent Catchment To Confluence With Derwent Reference: T/36/01407/O Permit Version: 3 Effective Date: 30th September 2009 Issued Date: 30th June 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Bramble Brook **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	446	3	431819 335354
5	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewerage Network - Pumping Station - Water Company Location: Melbourne Close Ps - Storm O/F, Melbourne Close, Leicestershire Authority: Environment Agency, Midlands Region Catchment Area: Trent Catchment To Confluence With Derwent Reference: T/36/01407/O Permit Version: 2 Effective Date: 23rd December 2008 Issued Date: 23rd December 2008 Revocation Date: 29th September 2009 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Bramble Brook **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	446	3	431819 335354
6	**Local Authority Pollution Prevention and Controls** Name: Sainsbury'S Kingsway Location: Kingsway Retail Park, Kingsway, DERBY, Derbyshire, DE22 3NF Authority: Derby City Unitary Council, Environmental Health Department Permit Reference: PPC/PFS28 Dated: 26th June 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A19NW (NE)	342	4	433362 336940
6	**Local Authority Pollution Prevention and Controls** Name: Mackworth Service Station Location: Mackworth Island, DERBY, Derbyshire, DE22 4AA Authority: Derby City Unitary Council, Environmental Health Department Permit Reference: PPC/PFS12 Dated: 30th July 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A19NW (NE)	343	4	433360 336943
	Nearest Surface Water Feature	A8NW (SW)	0	-	432393 335591

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Pollution Incidents to Controlled Waters** Property Type: Road (Road Traffic Accident) Location: Kingsway Island Kingsway Derby Authority: Environment Agency, Midlands Region Pollutant: Oils - Diesel (Including Agricultural) Note: Lorry Leaking Diesel To Watercourse Incident Date: 15th February 1999 Incident Reference: 2805656 Catchment Area: Trent Catchment : Markeaton Brook Receiving Water: Watercourse Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	0	3	432850 336150
8	**Pollution Incidents to Controlled Waters** Property Type: Road (Road Traffic Accident) Location: Junction A38/A5111, Pastures Island, DERBY Authority: Environment Agency, Midlands Region Pollutant: Organic Wastes: Milk Note: Road Traffic Accident 1200 Pints Milk Most To Road Drains; Amenity Effected Incident Date: 18th February 1998 Incident Reference: 2804030 Catchment Area: Trent Catchment : Markeaton Brook Receiving Water: Watercourse Cause of Incident: Unknown Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A13SE (N)	0	3	432750 336080
9	**Pollution Incidents to Controlled Waters** Property Type: Mining/Extraction: Other Location: Kingsway Industrial Estate, DERBY Authority: Environment Agency, Midlands Region Pollutant: Chemicals - Solvents Note: Bramble Brook; Suspected Solvents To Ground - Brook; Other Adverse Effects Incident Date: 16th August 1995 Incident Reference: 1800085 Catchment Area: Trent Catchment : Lower Derwent Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	182	3	433100 336200
10	**Pollution Incidents to Controlled Waters** Property Type: Road (Road Traffic Accident) Location: Ashbourne Road Island, DERBY Authority: Environment Agency, Midlands Region Pollutant: Chemicals - Solvents Note: Lorry Shed Load Of Chemical Drums Incident Date: 2nd March 1999 Incident Reference: 2805733 Catchment Area: Trent Catchment : Markeaton Brook Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	353	3	433300 337000
11	**Pollution Incidents to Controlled Waters** Property Type: Road (Road Traffic Accident) Location: A38 Markeaton Roundabout, DERBY Authority: Environment Agency, Midlands Region Pollutant: Chemicals - Acid Note: 4 Drums Chems From Lorry-Phosphorus Acid To Drns; Public Health Risk Incident Date: 30th November 1995 Incident Reference: 1800598 Catchment Area: Trent Catchment : Derwent To Confluence With Markeaton Brook Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	413	3	433400 337000
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 23 Leicestershire Scale: 1:100,000	A13SE (N)	0	3	432744 336062
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (SE)	0	2	432812 335983

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13SE (N)	0	2	432744 336062
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A8NW (SW)	0	2	432412 335750
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NE (NE)	0	2	432902 336304
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (SE)	0	2	432875 335958
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A7NE (SW)	0	2	432308 335591
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (N)	0	2	432744 336062
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
12	**Detailed River Network Lines** River Type: Tertiary River River Name: Bramble Brook Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SW (SW)	0	3	432585 335875
13	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Bramble Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13NE (NE)	0	3	432831 336116
14	**Detailed River Network Lines** River Type: Secondary River River Name: Bramble Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SE (SE)	0	3	432770 336041

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Detailed River Network Lines** River Type: Secondary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SE (S)	0	3	432711 335984
16	**Detailed River Network Lines** River Type: Secondary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SW (SW)	0	3	432585 335875
17	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SW (SW)	0	3	432678 335933
18	**Detailed River Network Lines** River Type: Secondary River River Name: Bramble Brook Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SE (SW)	0	3	432702 335995
19	**Detailed River Network Lines** River Type: Secondary River River Name: Bramble Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SW (SW)	0	3	432544 335865
20	**Detailed River Network Lines** River Type: Secondary River River Name: Bramble Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SE (SW)	0	3	432737 336049

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**Detailed River Network Lines** River Type: Secondary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SW (SW)	0	3	432610 335882
22	**Detailed River Network Lines** River Type: Secondary River River Name: Bramble Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SE (SE)	0	3	432771 336044
23	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SW (SW)	0	3	432544 335865
24	**Detailed River Network Lines** River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13SW (SW)	0	3	432509 335879
25	**Detailed River Network Lines** River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NE (SW)	21	3	432193 335554
26	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NE (SW)	21	3	432217 335504

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	**Detailed River Network Lines** River Type: Secondary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NE (SW)	85	3	432171 335455
28	**Detailed River Network Lines** River Type: Secondary River River Name: Bramble Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NE (SW)	85	3	432171 335455
29	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7SE (SW)	142	3	432157 335390
30	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7SE (SW)	199	3	432144 335331
31	**Detailed River Network Lines** River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7SE (SW)	207	3	432143 335322
32	**Detailed River Network Lines** River Type: Secondary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7SE (SW)	246	3	432128 335286

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**Detailed River Network Lines** River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7SE (SW)	293	3	432142 335221
34	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A14NW (E)	345	3	433329 336186
35	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A14NE (E)	439	3	433439 336194
36	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D004	A12SE (W)	348	3	432117 335991

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	**BGS Recorded Landfill Sites** Site Name: Rowditch Tip Location: Uttoxeter Rd, DERBY, Derbyshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Derived	A13NE (E)	0	2	432922 336107
38	**Historical Landfill Sites** Licence Holder: British Rail Property Board and Northern Land Agricultural Improvements Limited Location: Mickleover Name: Disused Railway Cutting and Tunnel off Station Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD22948 First Input Date: 31st August 1981 Last Input Date: 31st March 1993 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1000/0129 BGS Ref: Not Supplied Other Ref: LD48, 784/760	A13SE (W)	0	3	432711 336075
39	**Historical Landfill Sites** Licence Holder: J Sainsbury Plc and Leight Interests Plc Location: Uttoxeter Road, Derby, Derbyshire Name: Rowditch Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD22947 First Input Date: 31st December 1900 Last Input Date: 2nd September 1991 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1000/0407 BGS Ref: 1940 Other Ref: LD02	A13NE (E)	0	3	432919 336114
40	**Historical Landfill Sites** Licence Holder: K and A Enterprises Limited Location: Kingsway, Derby, Derbyshire Name: Kingsway Industrial Estate Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD22946 First Input Date: 3rd May 1990 Last Input Date: 31st December 1990 Specified Waste Type: Deposited Waste included Inert, Industrial and Commercial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1000/0136 BGS Ref: Not Supplied Other Ref: LD81	A14NW (E)	186	3	433158 336131
41	**Historical Landfill Sites** Licence Holder: K and A Enterprises Limited Location: New Zealand, Derby Name: Kingsway Industrial Estate Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD22945 First Input Date: 3rd May 1990 Last Input Date: 31st December 1990 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1000/0136 BGS Ref: Not Supplied Other Ref: LD81	A14NW (E)	199	3	433157 336151
	Local Authority Landfill Coverage Name: Derby City Council - Has supplied landfill data		0	8	432744 336062

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	**Registered Landfill Sites** Licence Holder: Leigh Environmental Ltd Licence Reference: LD02 Site Location: Rowditch Brickworks, Uttoxeter Road, Derby, Derbyshire Licence Easting: 433250 Licence Northing: 336000 Operator Location: 969 London Road, Alvaston, Derby, Derbyshire Authority: Environment Agency - Midlands Region, Lower Trent Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st December 1986 Preceded By Licence: LD02 Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Solid Asbestos (Pipes,Sheets Etc) Prohibited Waste: Poisonous, Noxious, Polluting Wastes	A14SW (E)	186	3	433250 336000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	**Registered Landfill Sites** Licence Holder: Derby Waste Disposal Co Ltd Licence Reference: LD02 Site Location: Brickworks At Rowditch Place, Uttoxeter Road, Derby, Derbyshire Licence Easting: 433250 Licence Northing: 336000 Operator Location: As Site Address Authority: Environment Agency - Midlands Region, Lower Trent Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Record supersededSuperseded Dated: 22nd September 1977 Preceded By Licence: Not Given Superseded By Licence: LD02 Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Alkali Metal Oxides/Hydroxides $ Asbestos Construction And Demolition Wastes Dyestuffs Waste Fats, Waxes And Greases Food Processing Wastes/Starch Glue Wastes Halogenated Cleaning Cmpds House. + Com. Untreated Waste Ind. Non-Haz. Waste Industrial Effluent Treatment Sludge Interceptor Pit Wastes $ Ion-Exchange Resin Wastes Iron Compounds Latex, Latex/Rubber Sol'Ns/Susp'Ns Lead Compounds Metal Scrap Mineral Oils Mineral Processing Wastes Other Alkalis Other Inorganic Materials Other Non-Toxic Metal Compounds Paint Waste $ Polymeric Material, Products/Scrap Printing Industry Wastes/Ink $ Scrap Rubber (Including Tyres) Silt And Dredgings Slag, Boiler/Flue Cleanings Soaps & Detergents Synthetic Adhesive Wastes Tank Cleaning Sludge $ Tar, Pitch, Bitumen, Asphalts Used Filter Materials $ Vanadium Compounds Waste Treated Timber Environment Agency must give specific authorisation for this waste to be acceptedWaste requires prior approval: Controlled Waste Nos	A14SW (E)	186	3	433250 336000
43	**Registered Landfill Sites** Licence Holder: K & A Enterprises Ltd Licence Reference: LD81 Site Location: Kingsway Industrial Estate, Derby, Derbyshire Licence Easting: 433250 Licence Northing: 336150 Operator Location: 88 St Thomas Road, Derby, Derbyshire Authority: Environment Agency - Midlands Region, Lower Trent Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: Only waste produced on site Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1990 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Wastes From Areas 1 - 9 Of Site	A14NW (E)	263	3	433250 336150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic mudstones (including Keuper Marl, Dolomitic Conglomerate and Rhaetic)	A13SE (N)	0	2	432744 336062
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	0	5	433000 336000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	0	5	432902 336303
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (S)	0	5	432744 336000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	0	5	432745 336000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	0	5	432812 335983
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	0	5	432833 335954

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (NE)	0	5	432778 336084
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (NW)	0	5	432738 336066
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	0	5	433000 335968
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	0	5	432876 335958
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NE (SW)	0	5	432308 335590
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	0	5	432884 336313

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	0	5	433000 336353
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (SW)	0	5	432383 335726
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (SW)	0	5	432412 335749
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (E)	0	5	432944 336000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	0	5	432826 336148
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	0	5	432937 336284

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	0	5	433000 335929
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (SE)	0	5	432832 336000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	0	5	432900 335932
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (SE)	0	5	432778 336045
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (E)	0	5	433000 336062
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (N)	0	5	432744 336062

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (E)	0	5	432793 336074
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	0	5	432756 335882
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NE (SW)	0	5	432280 335534
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	0	5	432744 335530
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (E)	2	5	433000 336040
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	14	5	432782 335907

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (W)	15	5	432564 336089
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	32	5	433000 336318
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	47	5	433000 336259
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	66	5	432178 335535
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	68	5	433000 336189
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (E)	80	5	433000 336143

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	85	5	432808 335834
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (E)	85	5	433000 336152
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	91	5	432630 335371
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	98	5	432592 335531
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	112	5	432570 335531
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	204	5	432061 335405

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	204	5	432052 335422
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	204	5	432046 335434
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	205	5	432037 335453
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	208	5	432000 335527
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	238	5	432000 335537
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	238	5	431995 335537

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	239	5	432000 335857
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	241	5	432000 335464
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NW (E)	243	5	433176 336193
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	246	5	432000 335444
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NW (SW)	252	5	432000 335632
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	257	5	432135 335267

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SW (SW)	260	5	432000 335401
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SW (SW)	268	5	432000 335383
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NE (N)	269	5	433000 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NW (E)	270	5	433247 336162
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	272	5	432150 335241
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A19NW (NE)	277	5	433135 337000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NE (N)	278	5	432765 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18SW (N)	279	5	432610 336738
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A19NW (NE)	289	5	433175 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	301	5	433259 336193
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NW (N)	314	5	432600 336772
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NE (N)	327	5	432744 337000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A19NW (N)	334	5	433108 337066
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NE (N)	353	5	433013 337082
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NE (N)	362	5	432730 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (SE)	367	5	433000 335527
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NE (N)	381	5	433000 337105
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	384	5	432000 335892

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A19NE (NE)	399	5	433449 336938
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	401	5	432000 335920
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A19NE (NE)	413	5	433401 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	415	5	432000 336000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SW (SW)	415	5	431935 335223
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SW (W)	454	5	432000 336027

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A2NE (S)	455	5	432325 335000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NE (S)	455	5	432744 335000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	461	5	433527 336000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SW (W)	469	5	432000 336062
44	**BGS Recorded Mineral Sites** Site Name: Rowditch Brick Works Location: , New Zealand, Derby Source: British Geological Survey, National Geoscience Information Service Reference: 34513 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SW (E)	192	2	433260 335950
45	**BGS Recorded Mineral Sites** Site Name: Rowditch Brick Works Location: , New Zealand, Derby Source: British Geological Survey, National Geoscience Information Service Reference: 34512 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SE (E)	324	2	433375 335855

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**BGS Recorded Mineral Sites** Site Name: Rowditch Brick Yard Location: , New Zealand, Derby Source: British Geological Survey, National Geoscience Information Service Reference: 34509 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SE (E)	424	2	433490 336000
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 432750, 336250 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 14.00 mg/kg Cadmium Measured Concentration: 2.20 mg/kg Chromium Measured Concentration: 60.00 mg/kg Lead Measured Concentration: 107.00 mg/kg Nickel Measured Concentration: 31.00 mg/kg	A13NE (N)	18	2	432750 336250
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 432250, 335750 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 10.00 mg/kg Cadmium Measured Concentration: 1.30 mg/kg Chromium Measured Concentration: 79.00 mg/kg Lead Measured Concentration: 61.00 mg/kg Nickel Measured Concentration: 34.00 mg/kg	A7NE (SW)	114	2	432250 335750
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 432751, 335745 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 12.00 mg/kg Cadmium Measured Concentration: 1.60 mg/kg Chromium Measured Concentration: 63.00 mg/kg Lead Measured Concentration: 123.00 mg/kg Nickel Measured Concentration: 28.00 mg/kg	A8NE (S)	116	2	432751 335745
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 433242, 336799 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 17.00 mg/kg Cadmium Measured Concentration: 2.00 mg/kg Chromium Measured Concentration: 74.00 mg/kg Lead Measured Concentration: 265.00 mg/kg Nickel Measured Concentration: 39.00 mg/kg	A19NW (NE)	157	2	433242 336799

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 432298, 335300 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 12.00 mg/kg Cadmium Measured Concentration: 1.60 mg/kg Chromium Measured Concentration: 92.00 mg/kg Lead Measured Concentration: 87.00 mg/kg Nickel Measured Concentration: 46.00 mg/kg	A7SE (SW)	157	2	432298 335300
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 433260, 335762 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 14.00 mg/kg Cadmium Measured Concentration: 1.90 mg/kg Chromium Measured Concentration: 79.00 mg/kg Lead Measured Concentration: 112.00 mg/kg Nickel Measured Concentration: 42.00 mg/kg	A14SW (SE)	272	2	433260 335762
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 432755, 336762 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 13.00 mg/kg Cadmium Measured Concentration: 1.70 mg/kg Chromium Measured Concentration: 69.00 mg/kg Lead Measured Concentration: 264.00 mg/kg Nickel Measured Concentration: 42.00 mg/kg	A18SE (N)	275	2	432755 336762
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 433228, 336262 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 19.00 mg/kg Cadmium Measured Concentration: 1.40 mg/kg Chromium Measured Concentration: 88.00 mg/kg Lead Measured Concentration: 244.00 mg/kg Nickel Measured Concentration: 38.00 mg/kg	A14NW (E)	277	2	433228 336262
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 432245, 336235 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 15.00 mg/kg Cadmium Measured Concentration: 1.80 mg/kg Chromium Measured Concentration: 68.00 mg/kg Lead Measured Concentration: 137.00 mg/kg Nickel Measured Concentration: 36.00 mg/kg	A12NE (W)	358	2	432245 336235

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 432763, 335248 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 12.00 mg/kg Cadmium Measured Concentration: 5.50 mg/kg Chromium Measured Concentration: 103.00 mg/kg Lead Measured Concentration: 1129.00 mg/kg Nickel Measured Concentration: 58.00 mg/kg	A8SE (S)	478	2	432763 335248
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: Derby Count Id: 275 Arsenic Minimum Concentration: 6.00 mg/kg Arsenic Average Concentration: 16.00 mg/kg Arsenic Maximum Concentration: 63.00 mg/kg Cadmium Minimum Concentration: 0.30 mg/kg Cadmium Average Concentration: 2.40 mg/kg Cadmium Maximum Concentration: 12.50 mg/kg Chromium Minimum Concentration: 30.00 mg/kg Chromium Average Concentration: 69.00 mg/kg Chromium Maximum Concentration: 311.00 mg/kg Lead Minimum Concentration: 21.00 mg/kg Lead Average Concentration: 321.00 mg/kg Lead Maximum Concentration: 2053.00 mg/kg Nickel Minimum Concentration: 12.00 mg/kg Nickel Average Concentration: 34.00 mg/kg Nickel Maximum Concentration: 180.00 mg/kg	A13SE (N)	0	2	432744 336062
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	0	2	432308 335590
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	2	432738 336066
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	432744 336062
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	432744 336062
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	2	432738 336066
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	0	2	432308 335590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	432744 336062
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	432744 336062
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	432740 336090
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	432885 336247
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	432853 336145
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	7	2	432303 335458
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	56	2	432982 336125
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7SE (SW)	138	2	432243 335341
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	432744 336062
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	2	432738 336066
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	0	2	432308 335590
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	14	2	432782 335907
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	432744 336062
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	432902 336303
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	2	432812 335983
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	2	432876 335958
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	2	432793 336074
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	432826 336148
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8SW (S)	91	2	432630 335371
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	204	2	432052 335422
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	205	2	432037 335453

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	432744 336062
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	432744 336062

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**Contemporary Trade Directory Entries** Name: Cleaner Based Services Location: 138, Greenwich Drive South, Derby, DE22 4AH Classification: Commercial Cleaning Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	0	-	432644 336126
48	**Contemporary Trade Directory Entries** Name: Mike Rothon Location: 13, Hendon Way, Derby, DE22 4BZ Classification: Fork Lift Trucks **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	21	-	433052 336741
48	**Contemporary Trade Directory Entries** Name: Acurat Location: 5, Hendon Way, Derby, DE22 4BZ Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	43	-	433070 336774
49	**Contemporary Trade Directory Entries** Name: Waste Energy Systems Ltd Location: 6-8 Kingsway Ind Pk,Kingsway Pk Cl, Derby, DE22 3FP Classification: Furnaces **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	27	-	432962 336275
50	**Contemporary Trade Directory Entries** Name: Nick'S Lawnmowers Services Location: 3, Raleigh Street, Derby, DE22 3FF Classification: Lawnmowers & Garden Machinery - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	56	-	433054 336417
51	**Contemporary Trade Directory Entries** Name: Waste Energy Systems Location: 8, Kingsway Industrial Park, Kingsway Park Close, DERBY, DE22 3FP Classification: Waste Processing Machinery **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13NE (NE)	74	-	433004 336254
51	**Contemporary Trade Directory Entries** Name: Derwent Enamellers Derby Ltd Location: 12, Kingsway Industrial Park, Kingsway Park Close, Derby, DE22 3FP Classification: Spraying - Paint & Coatings **Status: Active** Positional Accuracy: Automatically positioned in the proximity of the address	A13NE (NE)	87	-	433002 336209
51	**Contemporary Trade Directory Entries** Name: Spiroll Precast Services Ltd Location: 2, Kingsway Industrial Park, Kingsway Park Close, Derby, DE22 3FP Classification: Engineering Machine Services **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A13NE (NE)	101	-	433020 336218
52	**Contemporary Trade Directory Entries** Name: Irongate Digital Location: Kingsway Ind Pk,Kingsway Pk Cl, Derby, Derbyshire, DE22 3FT Classification: Digital Printing **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A13NE (E)	115	-	433027 336165
53	**Contemporary Trade Directory Entries** Name: Kingsway Blinds Location: Unit 1, Derby, Derbyshire, DE22 3FP Classification: Blinds, Awnings & Canopies **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A14NW (E)	138	-	433069 336150
53	**Contemporary Trade Directory Entries** Name: In Touch Location: Kingsway Pk Cl, Derby, Derbyshire, DE22 3FP Classification: Printers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A14NW (E)	158	-	433070 336189
53	**Contemporary Trade Directory Entries** Name: W E Deane Ltd Location: Unit D, Kingsway Industrial Park, Kingsway Park Close, Derby, DE22 3FP Classification: Freight Forwarders **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	158	-	433070 336189

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	**Contemporary Trade Directory Entries** Name: Currys Location: Kingsway Retail Park, Kingsway, Derby, Derbyshire, DE22 3FA Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	196	-	433261 335923
55	**Contemporary Trade Directory Entries** Name: Dpts Location: 108, Windmill Hill Lane, Derby, Derbyshire, DE22 3BP Classification: Timber Preservation Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	203	-	433340 336740
56	**Contemporary Trade Directory Entries** Name: Hamiltons Cleaning Location: 46, Brentford Drive, Derby, Derbyshire, DE22 4BP Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	228	-	432818 336775
57	**Contemporary Trade Directory Entries** Name: Design Dock Ltd Location: 43, Kingsway Industrial Park, Kingsway Park Close, Derby, DE22 3FP Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	284	-	433226 336202
58	**Contemporary Trade Directory Entries** Name: Southern Derbyshire Mental Health N H S Trust Location: Kingsway Hospital, Kingsway, Derby, DE22 3LZ Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	284	-	432824 335589
58	**Contemporary Trade Directory Entries** Name: Derbyshire Healthcare & Nhs Foundation Trust Location: Kingsway Hospital, Kingsway, Derby, DE22 3LZ Classification: Hospitals **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NE (S)	284	-	432824 335589
59	**Contemporary Trade Directory Entries** Name: Nationwide Pest Control Ltd Location: 60, Trowels Lane, Derby, DE22 3LT Classification: Pest & Vermin Control **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	330	-	433357 335799
59	**Contemporary Trade Directory Entries** Name: Omega Pest Control Location: 60, Trowels Lane, Derby, DE22 3LT Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	330	-	433357 335799
60	**Contemporary Trade Directory Entries** Name: Mackworth Service Station Location: Kingsway, Derby, DE22 4AA Classification: Petrol Filling Stations - 24 Hour **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	335	-	433347 336943
61	**Contemporary Trade Directory Entries** Name: Comet Group Plc Location: Unit 3, Kingsway Retail Park, Kingsway, Derby, DE22 3FA Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	379	-	433430 336073
61	**Contemporary Trade Directory Entries** Name: Comet Location: Unit 3, Kingsway Retail Park, Kingsway, Derby, DE22 3FA Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	379	-	433430 336073
62	**Contemporary Trade Directory Entries** Name: P R G Powerhouse Location: Unit 2, Kingsway Retail Park, Kingsway, Derby, DE22 3FA Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	428	-	433490 336030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	**Contemporary Trade Directory Entries** Name: Spalton Nutrition Ltd Location: 16, Cobden Street, Derby, DE22 3GX Classification: Animal By-Products **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	488	-	433609 336515
64	**Fuel Station Entries** Name: Sainsburys Kingsway Location: Kingsway, Kingsway Retail Park, Derby, Derbyshire, DE22 3FA Brand: Sainsburys Premises Type: Hypermarket **Status: Open** Positional Accuracy: Manually positioned to the address or location	A14NW (E)	213	-	433231 336097
65	**Fuel Station Entries** Name: Mackworth Service Station Location: Kingsway, Derby, DE22 4AA Brand: ESSO Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	335	-	433347 336943

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	January 2013	Annual Rolling Update
Derby City Unitary Council - Environmental Health Department	January 2013	Annual Rolling Update
South Derbyshire District Council - Environmental Health Department	March 2013	Annual Rolling Update
Discharge Consents		
Environment Agency - Midlands Region	August 2014	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Midlands Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - Midlands Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - Midlands Region	August 2014	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Derby City Unitary Council - Environmental Health Department	April 2014	Annual Rolling Update
South Derbyshire District Council - Environmental Health Department	June 2012	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	October 2013	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Derby City Unitary Council - Environmental Health Department	April 2014	Annual Rolling Update
South Derbyshire District Council - Environmental Health Department	June 2013	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	October 2013	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Derby City Unitary Council - Environmental Health Department	April 2014	Annual Rolling Update
South Derbyshire District Council - Environmental Health Department	June 2013	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	October 2013	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency - Midlands Region	December 1999	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Midlands Region	March 2013	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - Midlands Region	March 2013	As notified
Registered Radioactive Substances		
Environment Agency - Midlands Region	August 2014	Quarterly
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - Midlands Region - East Area	August 2014	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	August 2014	Quarterly
Water Abstractions		
Environment Agency - Midlands Region	July 2014	Quarterly
Water Industry Act Referrals		
Environment Agency - Midlands Region	August 2014	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	October 2012	Annually
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	October 2012	Annually
Source Protection Zones		
Environment Agency - Head Office	April 2014	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2014	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2014	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	August 2014	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	August 2014	Quarterly
Flood Defences		
Environment Agency - Head Office	August 2014	Quarterly
Detailed River Network Lines		
Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage		
Environment Agency - Head Office	March 2012	Annually
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Midlands Region - East Area	May 2014	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	May 2014	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Midlands Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Midlands Region - East Area	July 2014	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	July 2014	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Midlands Region - East Area	August 2014	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	August 2014	Quarterly
Local Authority Landfill Coverage		
Amber Valley Borough Council	May 2000	Not Applicable
Derby City Council	May 2000	Not Applicable
Derbyshire County Council	May 2000	Not Applicable
South Derbyshire District Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Amber Valley Borough Council	May 2000	Not Applicable
Derbyshire County Council	May 2000	Not Applicable
South Derbyshire District Council	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	August 2014	Bi-Annually
Explosive Sites		
Health and Safety Executive	November 2013	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
South Derbyshire District Council	April 2013	Annual Rolling Update
Derby City Unitary Council - Development and Cultural Services	August 2013	Annual Rolling Update
Amber Valley Borough Council	February 2013	Annual Rolling Update
Derbyshire County Council	March 2014	Annual Rolling Update
Planning Hazardous Substance Consents		
South Derbyshire District Council	April 2013	Annual Rolling Update
Derby City Unitary Council - Development and Cultural Services	August 2013	Annual Rolling Update
Amber Valley Borough Council	February 2013	Annual Rolling Update
Derbyshire County Council	March 2014	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2014	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	June 2011	Annually
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	June 2011	Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	December 2013	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	August 2014	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2014	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt		
Amber Valley Borough Council	August 2014	As notified
Derby City Unitary Council - Development and Cultural Services	August 2014	As notified
South Derbyshire District Council	August 2014	As notified
Areas of Unadopted Green Belt		
Amber Valley Borough Council	August 2014	As notified
Derby City Unitary Council - Development and Cultural Services	August 2014	As notified
South Derbyshire District Council	August 2014	As notified
Areas of Outstanding Natural Beauty		
Natural England	August 2014	Bi-Annually
Environmentally Sensitive Areas		
Natural England	August 2014	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	March 2014	Bi-Annually
Marine Nature Reserves		
Natural England	July 2013	Bi-Annually
National Nature Reserves		
Natural England	March 2014	Bi-Annually
National Parks		
Natural England	August 2014	Bi-Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	July 2014	Annually
Ramsar Sites		
Natural England	March 2014	Bi-Annually
Sites of Special Scientific Interest		
Natural England	March 2014	Bi-Annually
Special Areas of Conservation		
Natural England	March 2014	Bi-Annually
Special Protection Areas		
Natural England	March 2014	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Ordnance Survey® Licensed Partner
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	THE COAL AUTHORITY
British Geological Survey	BGS 1835 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	CEH Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett

Contact	Name and Address	Contact Details
2	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Derby City Unitary Council - Environmental Health Department** Celtic House, Heritage Gate, Derby, Derbyshire, DE1 1LS	Telephone: 01332 255228 Fax: 01332 255500 Website: www.derby.gov.uk
5	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
6	**Natural England** Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
7	**Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)** Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
8	**Derby City Council** The Council House, Corporation Street, Derby, Derbyshire, DE1 2FS	Telephone: 01332 293111 Fax: 01332 255500
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



Envirocheck® Mining

Historical Land Use Information (1:10,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts	◆		
Disturbed Ground	◆		
General Quarrying	◆		
Heap, unknown constituents	◆		
Mineral Railway	◆		
Mining and Quarrying General	◆		
Mining of Coal & Lignite	◆		
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	◆		

Historical Land Use

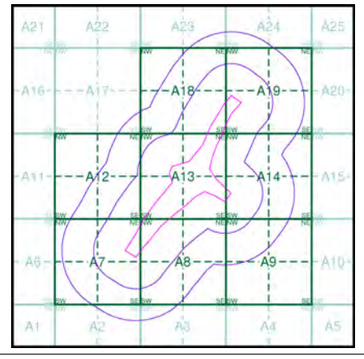
	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	●		
Potentially Infilled Land (Water)	●		
Former Marsh	✠		

Mining Data

Potential Mining Area

BGS Recorded Mineral Site

Mining and Ground Stability - Slice A



Order Details

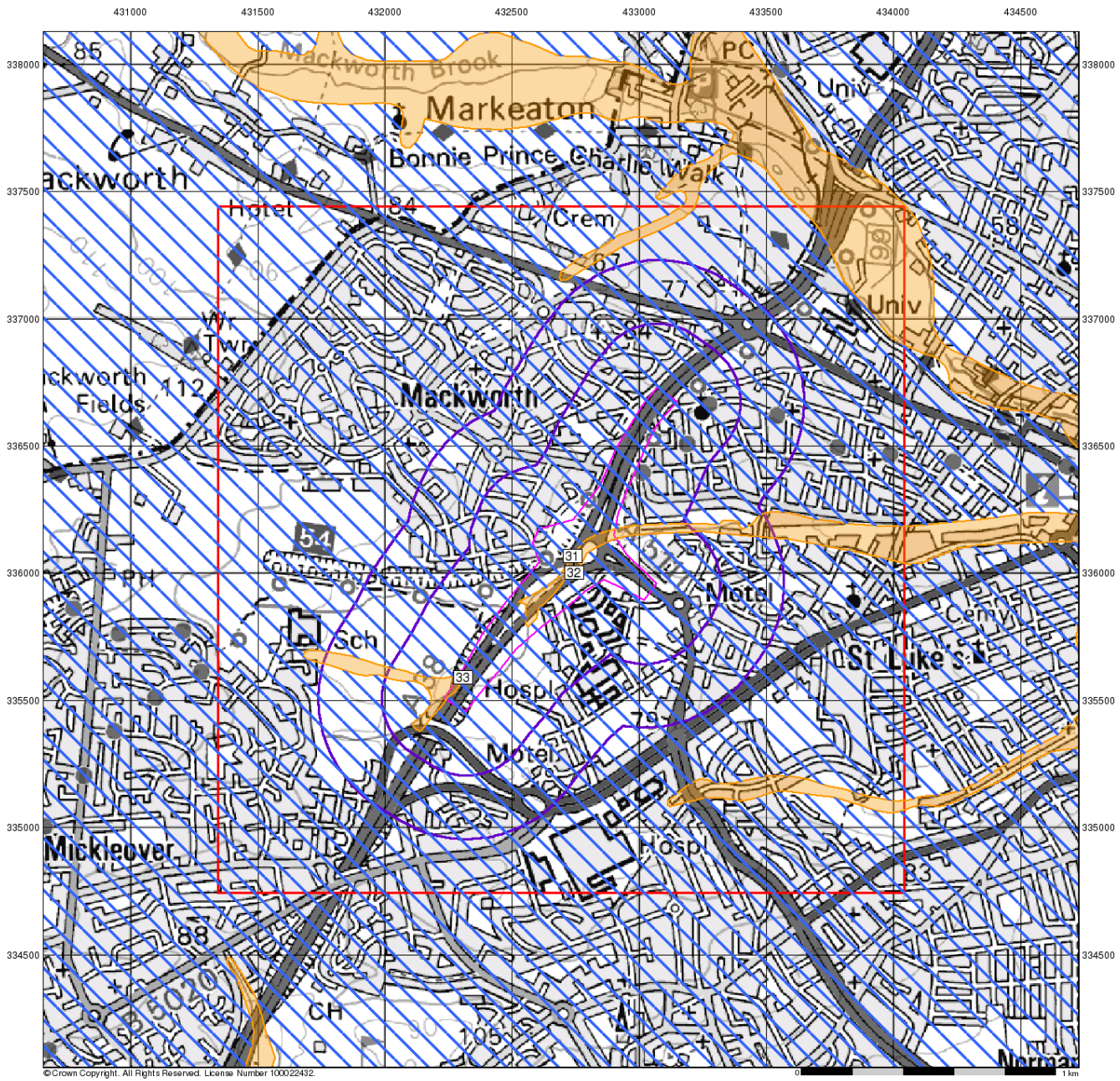
Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Potential for Compressible Ground Stability Hazards

High | Low | Moderate | Very Low

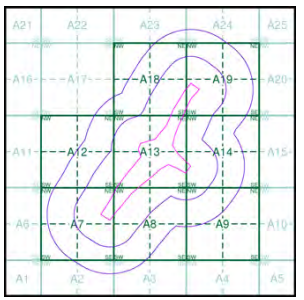
Potential for Collapsible Ground Stability Hazards

High | Low | Moderate | Very Low

Brine Pumping and Salt Mining

	Point	Polygon
Brine Pumping Related Feature	▲	▨
Salt Mining Related Feature	▲	▨

Mining and Ground Stability - Slice A



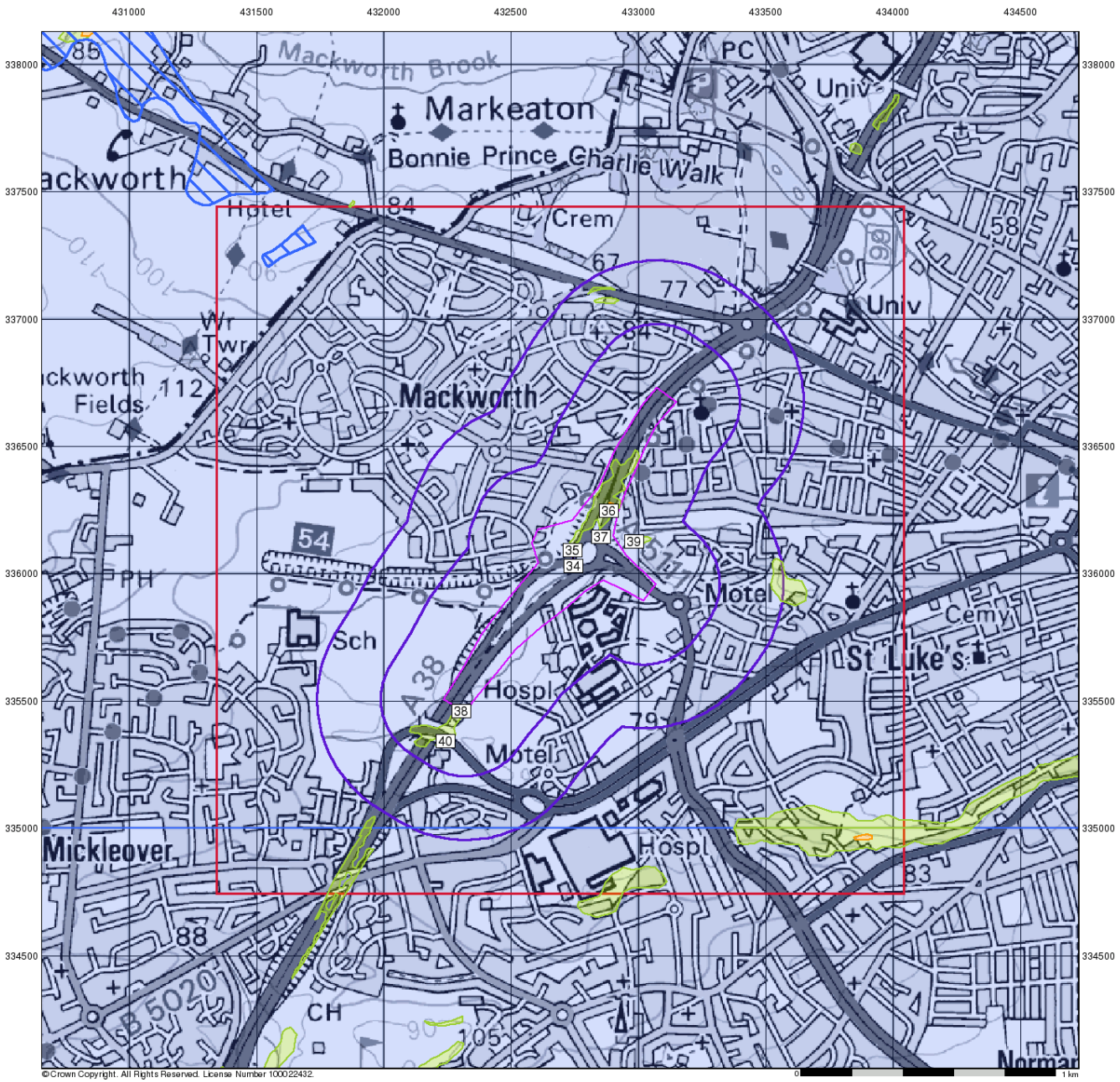
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

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Envirocheck Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

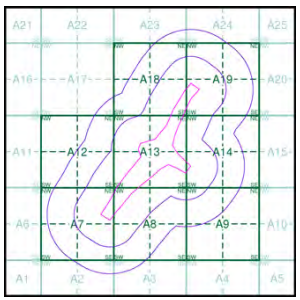
Potential for Landslide Ground Stability Hazards

High | Low
Moderate | Very Low

Potential for Ground Dissolution Stability Hazards

High | Low
Moderate | Very Low

Mining and Ground Stability - Slice A



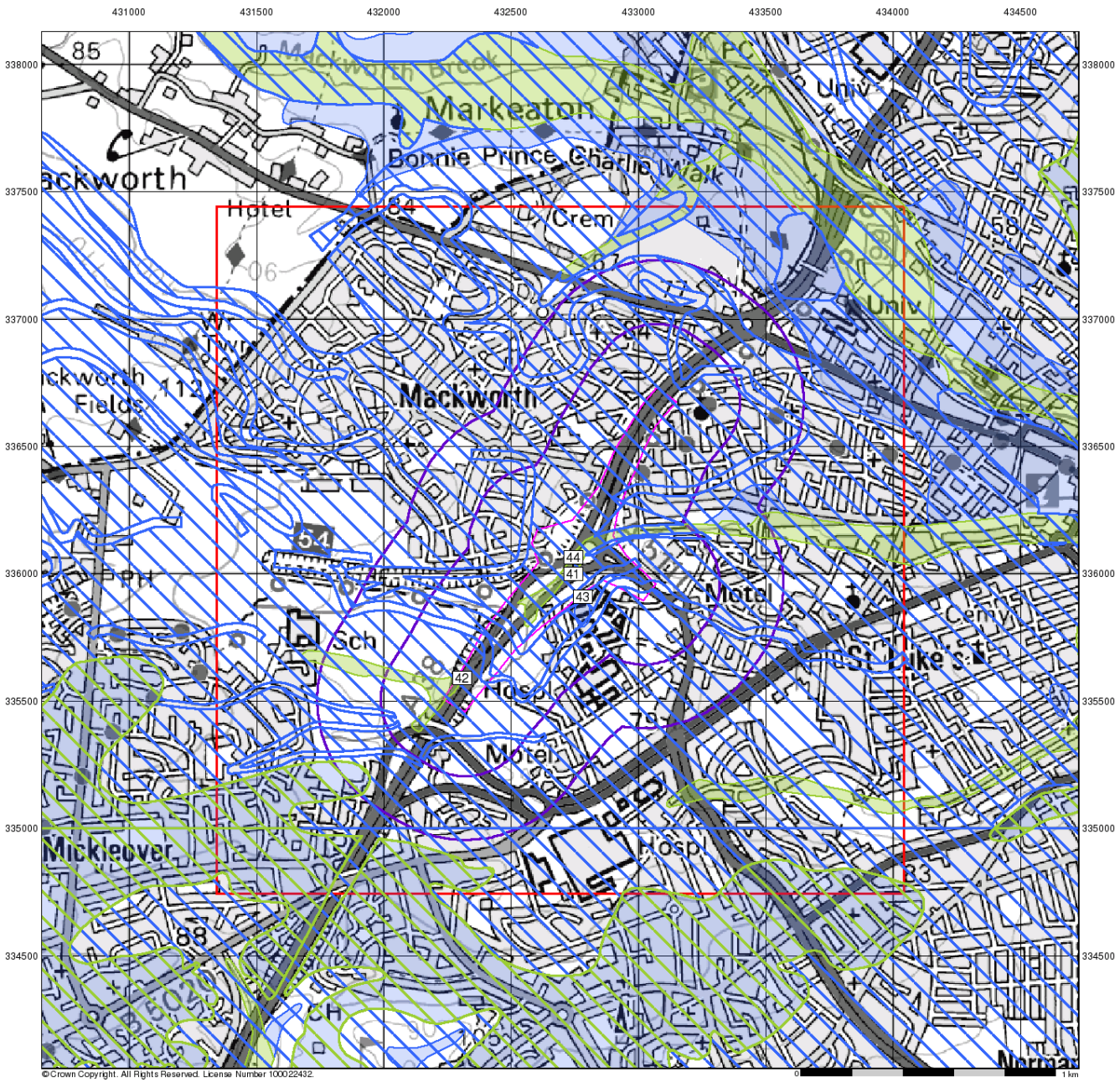
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

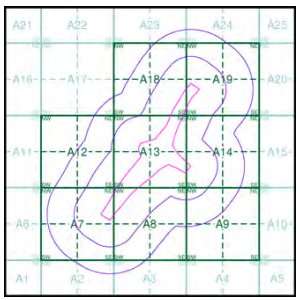
Potential for Running Sand Ground Stability Hazards

High | Low | Moderate | Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

High | Low | Moderate | Very Low

Mining and Ground Stability - Slice A



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:
60387304_1_1

Customer Reference:
47071637.208APS

National Grid Reference:
432740, 336060

Slice:
A

Site Area (Ha):
24.66

Search Buffer (m):
500

Site Details:

Site at
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City of Derby

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Chesterfield
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Contents

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	2
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	3
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	4
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Motion Map Data (1:2,500)	6
The Motion Map Data (1:2,500) section contains data which is plotted to indicate long-term stability trends from analysis of satellite radar data.	
Historical Map List	30
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

Contents

Report Version v49.0

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Man Made Mining Cavities				
Mining Instability			n/a	n/a
Natural Cavities				
Non Coal Mining Areas of Great Britain				n/a
Potential Mining Areas				
Historical Land Use Information (1:2,500)				
Extractive Industries or Potential Excavations from 1855-1909				n/a
Extractive Industries or Potential Excavations from 1893-1915				n/a
Extractive Industries or Potential Excavations from 1906-1937				n/a
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Mining of coal & lignite				
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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m
Ground Stability Data (1:50,000)				
Brine Compensation Area			n/a	n/a
Brine Pumping Related Features				
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Potential for Collapsible Ground Stability Hazards	pg 4	Yes		n/a
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Potential for Running Sand Ground Stability Hazards	pg 4	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 4	Yes	Yes	n/a
Salt Mining Related Features				
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Motion Map Data (1:2,500)				
Motion Map	pg 6	19	442	n/a

Report Version v49.0

Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**BGS Recorded Mineral Sites** Site Name: Rowditch Brick Works Location: , New Zealand, Derby Source: British Geological Survey, National Geoscience Information Service Reference: 34513 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SW (E)	192	1	433260 335950
2	**BGS Recorded Mineral Sites** Site Name: Rowditch Brick Works Location: , New Zealand, Derby Source: British Geological Survey, National Geoscience Information Service Reference: 34512 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SE (E)	324	1	433375 335855
3	**BGS Recorded Mineral Sites** Site Name: Rowditch Brick Yard Location: , New Zealand, Derby Source: British Geological Survey, National Geoscience Information Service Reference: 34509 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SE (E)	424	1	433490 336000
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				

Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Extractive Industries or Potential Excavations from 1950-1980** Use: Brick Works First Map Published Date: 1947 Last Map Published Date: 1948	A14SW (E)	0	-	433065 336000
5	**Extractive Industries or Potential Excavations from 1950-1980** Use: Railway Cutting First Map Published Date: 1955 Last Map Published Date: 1955	A13SE (W)	0	-	432706 336063
6	**Extractive Industries or Potential Excavations from 1950-1980** Use: Railway Embankment First Map Published Date: 1955 Last Map Published Date: 1955	A13SE (N)	0	-	432742 336071
7	**Extractive Industries or Potential Excavations from 1950-1980** Use: Pond First Map Published Date: 1947 Last Map Published Date: N/A	A14SW (SE)	2	-	433036 335912
8	**Extractive Industries or Potential Excavations from 1950-1980** Use: Refuse Heaps First Map Published Date: 1948 Last Map Published Date: N/A	A13NE (NE)	65	-	432985 336208
9	**Extractive Industries or Potential Excavations from 1950-1980** Use: Railway Embankment First Map Published Date: 1948 Last Map Published Date: N/A	A13NE (E)	96	-	433024 336136
10	**Extractive Industries or Potential Excavations from 1950-1980** Use: Refuse Heaps First Map Published Date: 1948 Last Map Published Date: N/A	A14NW (NE)	114	-	433033 336205
11	**Extractive Industries or Potential Excavations from 1950-1980** Use: Tunnel First Map Published Date: 1947 Last Map Published Date: N/A	A14SW (E)	148	-	433216 335966
12	**Extractive Industries or Potential Excavations from 1950-1980** Use: Clay Pit First Map Published Date: 1947 Last Map Published Date: N/A	A14SW (E)	155	-	433213 335905

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Disturbed Ground** Use: Not Supplied Date of Mapping: 1955	A14NW (NE)	135	-	433048 336194
14	**Heap, unknown constituents** Use: Not Supplied Date of Mapping: 1955	A13NE (NE)	91	-	433007 336209
15	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14SW (E)	0	-	433059 335993
16	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NE (E)	344	-	433432 336270
17	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A18SE (NE)	0	-	433023 336638
18	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A19SW (NE)	4	-	433149 336668
19	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SE (S)	110	-	432799 335791
20	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NW (S)	120	-	432689 335690
21	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SE (N)	137	-	432835 336627
22	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SE (N)	147	-	432857 336683
23	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SW (N)	153	-	432647 336555
24	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SE (N)	179	-	432771 336603
25	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7SE (SW)	259	-	432149 335257
26	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7SE (SW)	292	-	432157 335212
27	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A19NW (N)	295	-	433034 337024
28	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A19NW (NE)	330	-	433307 336967
29	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A9NW (SE)	361	-	433201 335581
30	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18NW (N)	441	-	432575 336789

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Brine Compensation Area The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
31	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	432738 336066
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	0	1	432308 335590
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	432744 336062
32	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	432744 336062
33	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	0	1	432308 335590
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	432738 336066
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	432744 336062
34	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	432744 336062
35	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	432740 336090
36	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	432885 336247
37	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	432853 336145
38	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	7	1	432303 335458
39	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	56	1	432982 336125
40	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7SE (SW)	138	1	432243 335341
41	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	432744 336062
42	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	0	1	432308 335590
43	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	14	1	432782 335907
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	432738 336066
44	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	1	432744 336062

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	432902 336303
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	432812 335983
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	432876 335958
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	432793 336074
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	432826 336148
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8SW (S)	91	1	432630 335371
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	204	1	432052 335422
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	205	1	432037 335453
	Subsidence Investigations Site Investigation Date: 4th December 2004 Root Survey: No CCTV Drain Survey: No Depth of Foundation Footing: Not Supplied Soil Classification: Not Supplied			-	

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A18SE (NE)	0	-	433010 336494
46	**Motion Map** Average Velocity Gradient (mmyear): -2.1	A13NE (NE)	0	-	432938 336348
47	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A18SE (NE)	0	-	432989 336450
48	**Motion Map** Average Velocity Gradient (mmyear): -1.5	A13NE (N)	0	-	432755 336141
49	**Motion Map** Average Velocity Gradient (mmyear): 1.7	A13NE (NE)	0	-	432845 336157
50	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A13NE (NE)	0	-	432842 336154
50	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A13NE (NE)	0	-	432839 336150
51	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A19SW (NE)	0	-	433056 336578
51	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A19SW (NE)	0	-	433053 336578
52	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7NE (SW)	0	-	432310 335561
53	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A13SW (W)	0	-	432623 336081
54	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A13NE (NE)	0	-	432983 336427
55	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A13NE (NE)	0	-	432935 336377
56	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A13NE (N)	0	-	432823 336280
56	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A13NE (N)	0	-	432823 336276
57	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A13SE (N)	0	-	432735 336092
58	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A7NE (SW)	0	-	432339 335595
59	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A13NE (N)	0	-	432756 336137
60	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NE (SW)	0	-	432325 335574
61	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A13NW (NW)	2	-	432592 336144

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A19SW (NE)	3	-	433138 336657
63	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A19SW (NE)	5	-	433051 336713
64	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A19SW (NE)	6	-	433073 336736
64	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A19SW (NE)	8	-	433077 336736
64	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A19SW (NE)	10	-	433074 336740
64	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A19SW (NE)	12	-	433079 336739
65	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A14SW (SE)	8	-	433037 335903
65	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A14SW (SE)	10	-	433036 335899
65	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A14SW (SE)	10	-	433033 335896
65	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A14SW (SE)	12	-	433038 335899
65	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A14SW (SE)	13	-	433037 335895
66	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A14SW (SE)	11	-	433032 335892
66	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A14SW (SE)	15	-	433036 335891
67	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A19SW (NE)	13	-	433148 336655
67	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A19SW (NE)	13	-	433145 336651
68	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A14SW (SE)	13	-	433031 335888
68	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A14SW (SE)	16	-	433035 335887
68	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A14SW (SE)	20	-	433034 335879
69	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A14SW (E)	14	-	433081 335967
69	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A14SW (E)	16	-	433079 335971

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A14SW (E)	16	-	433083 335965
69	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A14SW (E)	17	-	433080 335971
70	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A19SW (NE)	16	-	433089 336737
71	**Motion Map** Average Velocity Gradient (mmyear): 1.0	A13NE (N)	17	-	432838 336366
71	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A13NE (N)	18	-	432835 336363
72	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NE (NE)	19	-	432955 336279
72	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A13NE (NE)	21	-	432960 336286
72	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A13NE (NE)	21	-	432958 336282
72	**Motion Map** Average Velocity Gradient (mmyear): 0.9	A13NE (NE)	23	-	432961 336286
72	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A13NE (NE)	23	-	432960 336282
72	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A13NE (NE)	27	-	432963 336277
73	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A13SW (W)	19	-	432577 336075
73	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13SW (W)	19	-	432579 336070
73	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A13SW (W)	20	-	432578 336071
74	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A18SE (N)	20	-	432894 336500
75	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A13NE (N)	21	-	432843 336389
75	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13NE (N)	23	-	432843 336393
75	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A13NE (N)	27	-	432840 336394
75	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A13NE (N)	28	-	432837 336391
76	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A13NW (NW)	21	-	432582 336171

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A13NW (NW)	23	-	432579 336168
77	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7NE (SW)	23	-	432260 335466
78	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A14SW (E)	25	-	433063 335999
79	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18SE (N)	26	-	432940 336587
80	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A19SW (NE)	27	-	433167 336655
80	**Motion Map** Average Velocity Gradient (mmyear): -1.4	A19SW (NE)	32	-	433170 336650
81	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A14SW (E)	28	-	433086 335981
82	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A19SW (NE)	29	-	433044 336462
82	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A19SW (NE)	34	-	433049 336461
83	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A13SE (SE)	29	-	432946 335903
84	**Motion Map** Average Velocity Gradient (mmyear): -0.8	A13NE (NE)	32	-	432960 336254
84	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A13NE (NE)	33	-	432963 336257
84	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A13NE (NE)	38	-	432966 336256
85	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NE (NE)	34	-	432937 336161
86	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A19SW (NE)	34	-	433123 336591
87	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A13SE (SE)	36	-	432867 335933
87	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A13SE (SE)	39	-	432868 335929
88	**Motion Map** Average Velocity Gradient (mmyear): 0.9	A13SE (SE)	37	-	432953 335889
88	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A13SE (SE)	40	-	432957 335884
89	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A13SE (S)	38	-	432757 335852

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13SE (S)	39	-	432759 335851
90	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A13SE (S)	44	-	432772 335856
90	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A13SE (S)	47	-	432779 335859
91	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A13SE (SE)	46	-	432854 335915
91	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13SE (SE)	48	-	432862 335918
91	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13SE (SE)	51	-	432861 335914
91	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A13SE (SE)	51	-	432856 335911
92	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13SE (SE)	48	-	432852 335912
93	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A13NE (NE)	49	-	432963 336208
94	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A13SE (SE)	51	-	432841 335902
94	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A13SE (SE)	53	-	432843 335901
95	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A19SW (NE)	54	-	433165 336610
96	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A13NE (NE)	54	-	432968 336211
96	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A13NE (NE)	54	-	432968 336207
96	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NE (NE)	57	-	432972 336214
96	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13NE (NE)	57	-	432971 336211
97	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A14SW (E)	54	-	433063 336039
98	**Motion Map** Average Velocity Gradient (mmyear): -0.9	A18SE (N)	55	-	432993 336722
98	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A18SE (N)	57	-	432991 336722
99	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A19SW (NE)	55	-	433120 336555

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A19SW (NE)	56	-	433123 336559
100	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A14NW (NE)	55	-	433053 336416
100	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A14NW (NE)	58	-	433058 336419
101	**Motion Map** Average Velocity Gradient (mmyear): 1.5	A13SE (S)	55	-	432802 335870
102	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A19SW (NE)	57	-	433101 336519
103	**Motion Map** Average Velocity Gradient (mmyear): 1.5	A19SW (NE)	58	-	433205 336663
104	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A13SE (SE)	59	-	432822 335882
105	**Motion Map** Average Velocity Gradient (mmyear): 1.1	A13SE (SE)	60	-	432838 335890
105	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A13SE (SE)	64	-	432839 335886
105	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A13SE (SE)	65	-	432840 335886
105	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A13SE (SE)	66	-	432838 335882
105	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13SE (SE)	69	-	432842 335881
106	**Motion Map** Average Velocity Gradient (mmyear): -4.4	A13SE (E)	61	-	433021 336089
107	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A13NE (N)	62	-	432766 336341
108	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A13NW (NW)	64	-	432553 336206
108	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A13NW (NW)	65	-	432549 336203
109	**Motion Map** Average Velocity Gradient (mmyear): 1.2	A14NW (NE)	65	-	433041 336362
110	**Motion Map** Average Velocity Gradient (mmyear): 1.2	A13NE (NE)	66	-	432985 336223
111	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A13NE (N)	67	-	432797 336396
111	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A13NE (N)	69	-	432796 336400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NE (N)	69	-	432794 336396
112	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18SE (N)	69	-	432911 336622
113	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A13SE (SE)	71	-	432834 335875
113	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13SE (SE)	72	-	432836 335875
114	**Motion Map** Average Velocity Gradient (mmyear): -3.6	A13NE (E)	72	-	433030 336096
115	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A19SW (NE)	72	-	433128 336537
116	**Motion Map** Average Velocity Gradient (mmyear): -2.8	A14SW (E)	72	-	433108 336021
116	**Motion Map** Average Velocity Gradient (mmyear): -1.8	A14SW (E)	74	-	433105 336026
116	**Motion Map** Average Velocity Gradient (mmyear): -2.0	A14SW (E)	76	-	433109 336025
117	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A13NW (N)	74	-	432685 336270
117	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13NW (N)	76	-	432682 336271
117	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A13NW (N)	77	-	432687 336274
117	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A13NW (N)	80	-	432682 336275
118	**Motion Map** Average Velocity Gradient (mmyear): -3.4	A14NW (E)	75	-	433031 336100
119	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A14NW (NE)	75	-	433042 336341
120	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A14SW (E)	75	-	433103 336030
121	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A19SW (NE)	76	-	433125 336522
121	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A19SW (NE)	79	-	433124 336514
121	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A19SW (NE)	81	-	433128 336517
122	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A19SW (NE)	76	-	433222 336691

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A19SW (NE)	80	-	433225 336694
122	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A19SW (NE)	82	-	433225 336698
122	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A19SW (NE)	82	-	433227 336694
123	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A13NE (NE)	79	-	432985 336163
124	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13NE (NE)	84	-	432992 336173
125	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A13NW (NW)	84	-	432511 336163
125	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A13NW (NW)	85	-	432511 336167
125	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A13NW (NW)	88	-	432507 336164
126	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A14NW (NE)	86	-	433088 336420
127	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A19NW (NE)	90	-	433133 336797
128	**Motion Map** Average Velocity Gradient (mmyear): 0.9	A14NW (NE)	91	-	433050 336323
129	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A13NW (N)	91	-	432674 336285
130	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A14NW (NE)	104	-	433037 336257
130	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A14NW (NE)	108	-	433041 336256
131	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A13NW (NW)	105	-	432530 336244
131	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A13NW (NW)	108	-	432531 336248
132	**Motion Map** Average Velocity Gradient (mmyear): 0.9	A13SW (W)	106	-	432483 336059
132	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A13SW (W)	109	-	432477 336057
132	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A13SW (W)	110	-	432475 336057
133	**Motion Map** Average Velocity Gradient (mmyear): -2.1	A14SW (E)	113	-	433124 336062

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
134	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7SE (SW)	113	-	432199 335399
134	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A7SE (SW)	113	-	432198 335399
134	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A7SE (SW)	116	-	432198 335395
134	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A7SE (SW)	117	-	432195 335396
135	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A8NW (S)	115	-	432673 335683
135	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A8NW (S)	124	-	432676 335674
136	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A14NW (NE)	115	-	433084 336335
136	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A14NW (NE)	121	-	433088 336331
137	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A19NW (N)	116	-	433056 336846
137	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A19NW (N)	118	-	433052 336847
138	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A19SW (NE)	116	-	433225 336585
139	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A18SE (N)	117	-	432905 336705
140	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A8NW (S)	121	-	432665 335668
140	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A8NW (S)	123	-	432671 335671
140	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A8NW (S)	125	-	432673 335671
141	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A18SE (N)	121	-	432892 336692
141	**Motion Map** Average Velocity Gradient (mmyear): 0.9	A18SE (N)	128	-	432887 336697
142	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A19NW (NE)	122	-	433087 336851
143	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A18SE (N)	122	-	432905 336713
143	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A18SE (N)	124	-	432904 336717

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18SE (N)	123	-	432756 336442
145	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A19NW (NE)	125	-	433093 336854
145	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A19NW (NE)	125	-	433092 336854
145	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A19NW (NE)	129	-	433096 336858
145	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A19NW (NE)	130	-	433087 336859
146	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A18SE (N)	125	-	432834 336603
146	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A18SE (N)	131	-	432828 336604
147	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18SE (N)	127	-	432826 336592
148	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7SE (SW)	127	-	432197 335383
149	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A19SW (NE)	128	-	433268 336632
149	**Motion Map** Average Velocity Gradient (mmyear): -1.0	A19SW (NE)	130	-	433270 336628
150	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A13SW (W)	129	-	432446 336051
151	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A19SW (NE)	130	-	433266 336620
151	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A19SW (NE)	134	-	433269 336616
151	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A19SW (NE)	137	-	433269 336611
151	**Motion Map** Average Velocity Gradient (mmyear): 1.0	A19SW (NE)	139	-	433273 336615
152	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A14NW (NE)	134	-	433127 336387
153	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A19NW (NE)	135	-	433078 336865
154	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A19NW (NE)	137	-	433152 336841
155	**Motion Map** Average Velocity Gradient (mmyear): 0.9	A19SW (NE)	140	-	433272 336611

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A13NW (W)	140	-	432443 336113
156	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NW (W)	140	-	432443 336108
156	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A13NW (W)	143	-	432441 336109
157	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A19NW (NE)	141	-	433100 336869
157	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A19NW (NE)	145	-	433104 336872
157	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A19NW (NE)	145	-	433103 336872
158	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A8NE (S)	143	-	432794 335746
158	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A8NE (S)	147	-	432795 335741
158	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A8NE (S)	149	-	432802 335744
158	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A8NE (S)	152	-	432802 335740
159	**Motion Map** Average Velocity Gradient (mmyear): 1.5	A19SW (NE)	144	-	433269 336595
159	**Motion Map** Average Velocity Gradient (mmyear): 1.5	A19SW (NE)	148	-	433273 336594
160	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A13NW (NW)	144	-	432508 336277
160	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A13NW (NW)	148	-	432507 336282
161	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A13NW (NW)	144	-	432502 336271
162	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A19NW (NE)	145	-	433179 336831
163	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A18SE (N)	145	-	432812 336604
163	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18SE (N)	154	-	432802 336606
164	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13SW (W)	145	-	432366 335980
165	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A13NW (NW)	146	-	432517 336287

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
165	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NW (NW)	155	-	432511 336293
166	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A8NE (S)	147	-	432693 335659
166	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A8NE (S)	148	-	432698 335661
166	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A8NE (S)	148	-	432698 335661
166	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A8NE (S)	152	-	432699 335657
167	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A14NW (E)	148	-	433060 336186
168	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A14NW (NE)	149	-	433069 336213
168	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A14NW (NE)	151	-	433070 336209
168	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A14NW (NE)	152	-	433070 336205
168	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A14NW (NE)	157	-	433077 336211
168	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A14NW (NE)	157	-	433076 336208
168	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A14NW (NE)	157	-	433074 336204
169	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A19SW (NE)	149	-	433238 336549
170	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A19SW (NE)	149	-	433283 336735
170	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A19SW (NE)	151	-	433284 336738
171	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A18SE (N)	150	-	432838 336659
171	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A18SE (N)	154	-	432836 336663
171	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18SE (N)	154	-	432834 336660
171	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A18SE (N)	156	-	432837 336667
172	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A18SE (N)	151	-	432797 336591

Motion Map Data (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
172	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A18SE (N)	153	-	432796 336595
172	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18SE (N)	155	-	432795 336595
172	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A18SE (N)	155	-	432793 336592
173	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A13NW (NW)	151	-	432500 336279
173	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A13NW (NW)	156	-	432498 336284
173	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13NW (NW)	160	-	432497 336288
173	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13NW (NW)	168	-	432494 336296
174	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A13NW (W)	151	-	432439 336163
174	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A13NW (W)	154	-	432435 336159
175	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18NE (N)	152	-	432996 336864
175	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A18NE (N)	152	-	432992 336861
175	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A18NE (N)	155	-	432998 336867
175	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18NE (N)	155	-	432993 336865
175	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18NE (N)	158	-	432994 336868
176	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A18SE (N)	153	-	432851 336685
176	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A18SE (N)	153	-	432849 336681
176	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A18SE (N)	156	-	432844 336678
177	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A14SW (E)	153	-	433200 335883
178	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A14NW (NE)	154	-	433149 336390
178	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A14NW (NE)	155	-	433150 336390

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
179	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7SE (SW)	154	-	432187 335357
179	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7SE (SW)	158	-	432186 335353
180	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A13NW (W)	156	-	432434 336164
180	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A13NW (W)	164	-	432427 336169
181	**Motion Map** Average Velocity Gradient (mmyear): -0.9	A13NW (N)	157	-	432688 336395
181	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A13NW (N)	161	-	432684 336397
182	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A18SE (N)	157	-	432858 336704
183	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A13NW (N)	158	-	432690 336399
183	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A13NW (N)	161	-	432689 336403
183	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A13NW (N)	161	-	432686 336400
183	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A13NW (N)	163	-	432687 336404
183	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A13NW (N)	167	-	432686 336409
184	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A18SE (N)	158	-	432718 336446
184	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A18SE (N)	160	-	432717 336446
184	**Motion Map** Average Velocity Gradient (mmyear): 1.0	A18SE (N)	161	-	432718 336450
184	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A18SE (N)	161	-	432714 336443
185	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13NW (NW)	158	-	432448 336205
185	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NW (NW)	161	-	432443 336202
186	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A19SW (NE)	159	-	433211 336503
187	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18SE (N)	159	-	432750 336520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
188	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A14NW (E)	161	-	433075 336195
188	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A14NW (E)	162	-	433075 336191
189	**Motion Map** Average Velocity Gradient (mmyear): -0.9	A18SE (N)	161	-	432886 336758
190	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A18NE (N)	164	-	432900 336779
190	**Motion Map** Average Velocity Gradient (mmyear): 1.2	A18NE (N)	169	-	432894 336780
191	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A19SW (NE)	165	-	433238 336525
191	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A19SW (NE)	165	-	433235 336522
192	**Motion Map** Average Velocity Gradient (mmyear): 1.0	A14NW (NE)	167	-	433130 336313
193	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A19SW (NE)	169	-	433298 336751
194	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A13NW (NW)	170	-	432496 336300
195	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A8NE (S)	171	-	432810 335722
195	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A8NE (S)	173	-	432817 335724
195	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A8NE (S)	180	-	432817 335716
196	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A8NE (S)	172	-	432799 335712
196	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A8NE (S)	174	-	432797 335708
197	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A18NE (N)	173	-	433019 336895
198	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A14NW (NE)	173	-	433152 336349
199	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A18SE (N)	177	-	432698 336446
200	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A13NW (W)	177	-	432420 336187
201	**Motion Map** Average Velocity Gradient (mmyear): -1.6	A13NW (NW)	178	-	432448 336254

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
201	**Motion Map** Average Velocity Gradient (mmyear): -2.0	A13NW (NW)	181	-	432447 336258
201	**Motion Map** Average Velocity Gradient (mmyear): -1.9	A13NW (NW)	184	-	432446 336262
202	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A14SW (E)	178	-	433223 335874
203	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A8NE (S)	178	-	432811 335713
203	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A8NE (S)	181	-	432814 335713
204	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A19NW (NE)	179	-	433298 336772
204	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A19SW (NE)	180	-	433301 336767
204	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A19NW (NE)	183	-	433303 336771
204	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A19NW (NE)	184	-	433301 336775
205	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A19NW (NE)	180	-	433200 336859
205	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A19NW (NE)	180	-	433202 336858
206	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18NE (N)	181	-	432917 336828
206	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A18NE (N)	185	-	432919 336836
206	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A18NE (N)	186	-	432914 336833
207	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A19SW (NE)	181	-	433210 336458
208	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A14SW (SE)	181	-	433147 335765
209	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A18SE (N)	182	-	432799 336655
210	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A8NE (S)	182	-	432767 335675
210	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A8NE (S)	186	-	432769 335670
211	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A19NW (NE)	183	-	433200 336863

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
211	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A19NW (NE)	184	-	433203 336862
211	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A19NW (NE)	185	-	433197 336867
211	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A19NW (NE)	187	-	433202 336867
211	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A19NW (NE)	190	-	433201 336871
211	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A19NW (NE)	191	-	433203 336870
212	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A8NE (SE)	183	-	432915 335743
212	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A8NE (SE)	184	-	432911 335744
212	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A8NE (SE)	187	-	432915 335739
212	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A8NE (SE)	188	-	432910 335740
213	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A18NE (N)	185	-	432930 336850
213	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A18NE (N)	188	-	432929 336854
213	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A18NE (N)	188	-	432927 336851
214	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A12SE (W)	186	-	432341 336013
215	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A18NE (N)	187	-	432898 336812
215	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A18NE (N)	188	-	432899 336816
215	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18NE (N)	189	-	432895 336813
215	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A18NE (N)	189	-	432900 336820
215	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A18NE (N)	192	-	432895 336817
216	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18NE (N)	187	-	433021 336911
217	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A18NE (N)	187	-	432919 336840

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
217	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18NE (N)	187	-	432916 336837
217	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18NE (N)	189	-	432917 336841
217	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A18NE (N)	191	-	432917 336845
217	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18NE (N)	192	-	432913 336841
217	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A18NE (N)	195	-	432913 336846
218	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A13NW (NW)	187	-	432465 336295
218	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A13NW (NW)	189	-	432461 336292
219	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A14SW (E)	187	-	433207 336085
220	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A18NE (N)	190	-	432886 336803
220	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A18NE (N)	194	-	432886 336811
221	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18NE (N)	190	-	432880 336796
221	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A18NE (N)	191	-	432882 336800
221	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A18NE (N)	197	-	432878 336805
222	**Motion Map** Average Velocity Gradient (mmyear): -1.4	A13NW (NW)	190	-	432440 336264
223	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A13NW (NW)	190	-	432457 336289
224	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A19SW (NE)	192	-	433340 336685
224	**Motion Map** Average Velocity Gradient (mmyear): -0.8	A19SW (NE)	198	-	433345 336684
225	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A14NW (E)	192	-	433174 336124
225	**Motion Map** Average Velocity Gradient (mmyear): -0.9	A14NW (E)	196	-	433177 336128
226	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NW (NW)	195	-	432424 336243

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
227	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A12SE (W)	195	-	432337 336022
227	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A12SE (W)	197	-	432329 336016
227	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A12SE (W)	199	-	432329 336020
228	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A12SE (W)	195	-	432328 336012
229	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A18NE (N)	196	-	432951 336886
229	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18NE (N)	199	-	432955 336893
229	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A18NE (N)	199	-	432952 336890
229	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A18NE (N)	199	-	432948 336887
229	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A18NE (N)	200	-	432950 336890
229	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A18NE (N)	201	-	432953 336894
230	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A13NW (NW)	197	-	432509 336342
231	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A13NW (NW)	197	-	432499 336336
232	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A9NW (SE)	202	-	433151 335739
233	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A19SW (NE)	202	-	433243 336475
233	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A19SW (NE)	205	-	433247 336474
234	**Motion Map** Average Velocity Gradient (mmyear): -1.3	A13NW (NW)	202	-	432530 336358
234	**Motion Map** Average Velocity Gradient (mmyear): -1.2	A13NW (NW)	204	-	432532 336361
235	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A13NW (NW)	203	-	432590 336377
235	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A13NW (NW)	204	-	432587 336377
235	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A13NW (NW)	206	-	432592 336380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
235	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A13NW (NW)	207	-	432589 336381
235	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A13NW (NW)	209	-	432593 336384
235	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NW (NW)	212	-	432589 336385
236	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A18SE (N)	204	-	432781 336668
237	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A18SW (N)	208	-	432671 336460
238	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A18NE (N)	208	-	433002 336927
239	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A9NW (SE)	209	-	433142 335725
240	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A14SW (SE)	209	-	433225 335820
240	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A14SW (SE)	210	-	433221 335813
240	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A14SW (SE)	212	-	433225 335816
240	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A14SW (SE)	212	-	433223 335813
240	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A14SW (SE)	213	-	433227 335816
241	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A13NW (W)	212	-	432372 336120
242	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A13SW (W)	214	-	432364 336086
242	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A13SW (W)	219	-	432362 336090
243	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A18SE (N)	214	-	432792 336706
244	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A14SW (SE)	214	-	433223 335809
244	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A14SW (SE)	215	-	433221 335805
245	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A13NW (NW)	214	-	432391 336214
246	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A13NW (NW)	215	-	432463 336332

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
247	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A14NW (NE)	217	-	433220 336395
248	**Motion Map** Average Velocity Gradient (mmyear): -2.8	A13NW (W)	221	-	432363 336102
249	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13NW (NW)	221	-	432463 336340
249	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A13NW (NW)	224	-	432464 336344
250	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A19SW (NE)	221	-	433352 336589
251	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A14NW (NE)	223	-	433226 336393
251	**Motion Map** Average Velocity Gradient (mmyear): -0.9	A14NW (NE)	229	-	433232 336396
252	**Motion Map** Average Velocity Gradient (mmyear): -1.0	A14NW (E)	223	-	433155 336230
253	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A14NW (E)	224	-	433151 336191
254	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NW (NW)	224	-	432389 336235
255	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A13NW (NW)	227	-	432508 336375
256	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A19NW (NE)	228	-	433161 336941
256	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A19NW (NE)	229	-	433163 336940
256	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A19NW (NE)	232	-	433161 336945
256	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A19NW (NE)	233	-	433164 336944
257	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A18SE (N)	228	-	432763 336684
258	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NW (NW)	229	-	432399 336269
259	**Motion Map** Average Velocity Gradient (mmyear): -3.7	A14NW (E)	229	-	433242 336109
260	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A18NE (N)	230	-	432833 336802
260	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A18NE (N)	233	-	432833 336806

Motion Map Data (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
261	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A18NE (N)	231	-	432825 336792
262	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A19NW (NE)	232	-	433232 336901
263	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A13NW (NW)	232	-	432450 336343
263	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NW (NW)	235	-	432450 336347
264	**Motion Map** Average Velocity Gradient (mmyear): -3.2	A14NW (E)	233	-	433249 336108
265	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A19SW (NE)	234	-	433331 336528
266	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A18NE (N)	234	-	432815 336782
267	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A14SW (E)	235	-	433303 335953
268	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A13NW (W)	236	-	432361 336200
268	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A13NW (W)	238	-	432361 336204
269	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A13NW (NW)	237	-	432487 336375
269	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A13NW (NW)	238	-	432490 336379
270	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A19NW (NE)	238	-	433152 336955
271	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A13NW (NW)	238	-	432397 336286
271	**Motion Map** Average Velocity Gradient (mmyear): -0.8	A13NW (NW)	238	-	432396 336286
271	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A13NW (NW)	243	-	432395 336294
272	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A19NW (NE)	240	-	433121 336966
273	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A13NW (N)	240	-	432606 336426
273	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A13NW (N)	240	-	432609 336430
273	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A13NW (N)	248	-	432597 336428

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
274	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A19NW (NE)	243	-	433156 336958
274	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A19NW (NE)	243	-	433153 336959
274	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A19NW (NE)	246	-	433153 336963
274	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A19NW (NE)	247	-	433159 336961
274	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A19NW (NE)	250	-	433154 336967
275	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A8NE (S)	243	-	432808 335628
275	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A8NE (S)	245	-	432803 335622
276	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A8NE (S)	243	-	432800 335623
276	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A8NE (S)	247	-	432801 335618
277	**Motion Map** Average Velocity Gradient (mmyear): 1.3	A14NW (NE)	245	-	433267 336429
278	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A13NW (NW)	245	-	432592 336421
278	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A13NW (N)	248	-	432593 336425
279	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A18NE (N)	246	-	432836 336830
279	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A18NE (N)	250	-	432832 336831
280	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A19SW (NE)	247	-	433271 336432
281	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A19NW (NE)	248	-	433127 336973
281	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A19NW (NE)	248	-	433124 336973
282	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A18NE (N)	248	-	433027 336975
283	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A8NE (S)	248	-	432696 335528
283	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A8NE (S)	249	-	432695 335524

Motion Map Data (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
284	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A19SE (NE)	250	-	433397 336652

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	SK3335	1947
Ordnance Survey Plan	SK3335	1947
Ordnance Survey Plan	SK3335	1947
Ordnance Survey Plan	SK3335	1947
Ordnance Survey Plan	SK3136	1955
Ordnance Survey Plan	SK3236	1955
Ordnance Survey Plan	SK3236	1955
Ordnance Survey Plan	SK3236	1955
Ordnance Survey Plan	SK3237	1969
Ordnance Survey Plan	SK3337	1969
Ordnance Survey Plan	SK3337	1969

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Derbyshire	049_SE	1887
Derbyshire	049_SE	1901
Derbyshire	049_SE	1919
Derbyshire	049_SE	1938
Ordnance Survey Plan	SK33NW	1955
Ordnance Survey Plan	SK33SW	1955
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	SK33SW	1988
Ordnance Survey Plan	SK33NW	1992

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2014	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	December 2013	As notified
Man Made Mining Cavities Peter Brett Associates	October 2013	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	October 2013	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
Historical Land Use Information (1:2,500)	**Version**	**Update Cycle**
Subterranean Features Landmark Information Group Limited	April 2014	Bi-Annually
Ground Stability Data (1:50,000)	**Version**	**Update Cycle**
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Subsidence Insurance Claims SP Property Services	August 2014	Quarterly
Subsidence Investigations CET Structures Ltd	August 2014	Quarterly

Motion Map Data (1:2,500)	Version	Update Cycle
Motion Map		
Nigel Press Associates - Hampshire	February 2011	As notified
Nigel Press Associates - Cambridge	January 2011	As notified
Nigel Press Associates - Ipswich	January 2011	As notified
Nigel Press Associates - Norwich	January 2011	As notified
Nigel Press Associates - Peterborough	January 2011	As notified
Nigel Press Associates - Barnstaple	July 2010	As notified
Nigel Press Associates - Derbyshire	July 2010	As notified
Nigel Press Associates - Humberside	July 2010	As notified
Nigel Press Associates - Kent	July 2010	As notified
Nigel Press Associates - Lincolnshire	July 2010	As notified
Nigel Press Associates - Nottinghamshire	July 2010	As notified
Nigel Press Associates - Birmingham	May 2009	As notified
Nigel Press Associates - Bournemouth	May 2009	As notified
Nigel Press Associates - Brighton	May 2009	As notified
Nigel Press Associates - Bristol	May 2009	As notified
Nigel Press Associates - Cardiff	May 2009	As notified
Nigel Press Associates - Central London	May 2009	As notified
Nigel Press Associates - Cheltenahm	May 2009	As notified
Nigel Press Associates - Coventry	May 2009	As notified
Nigel Press Associates - Crawley	May 2009	As notified
Nigel Press Associates - Edinburgh	May 2009	As notified
Nigel Press Associates - Exeter	May 2009	As notified
Nigel Press Associates - Glasgow	May 2009	As notified
Nigel Press Associates - Isle of Wight	May 2009	As notified
Nigel Press Associates - Leeds	May 2009	As notified
Nigel Press Associates - Leicester	May 2009	As notified
Nigel Press Associates - Liverpool	May 2009	As notified
Nigel Press Associates - Manchester	May 2009	As notified
Nigel Press Associates - Milton Keynes	May 2009	As notified
Nigel Press Associates - Newcastle	May 2009	As notified
Nigel Press Associates - Northwich	May 2009	As notified
Nigel Press Associates - Nottingham	May 2009	As notified
Nigel Press Associates - Oxford	May 2009	As notified
Nigel Press Associates - Plymouth	May 2009	As notified
Nigel Press Associates - Portsmouth	May 2009	As notified
Nigel Press Associates - Preston	May 2009	As notified
Nigel Press Associates - Reading	May 2009	As notified
Nigel Press Associates - Sheffield	May 2009	As notified
Nigel Press Associates - Stoke	May 2009	As notified
Nigel Press Associates - Swindon	May 2009	As notified
Nigel Press Associates - Tonbridge	May 2009	As notified
Nigel Press Associates - North London	November 2008	As notified
Nigel Press Associates - Head Office	September 2008	As notified

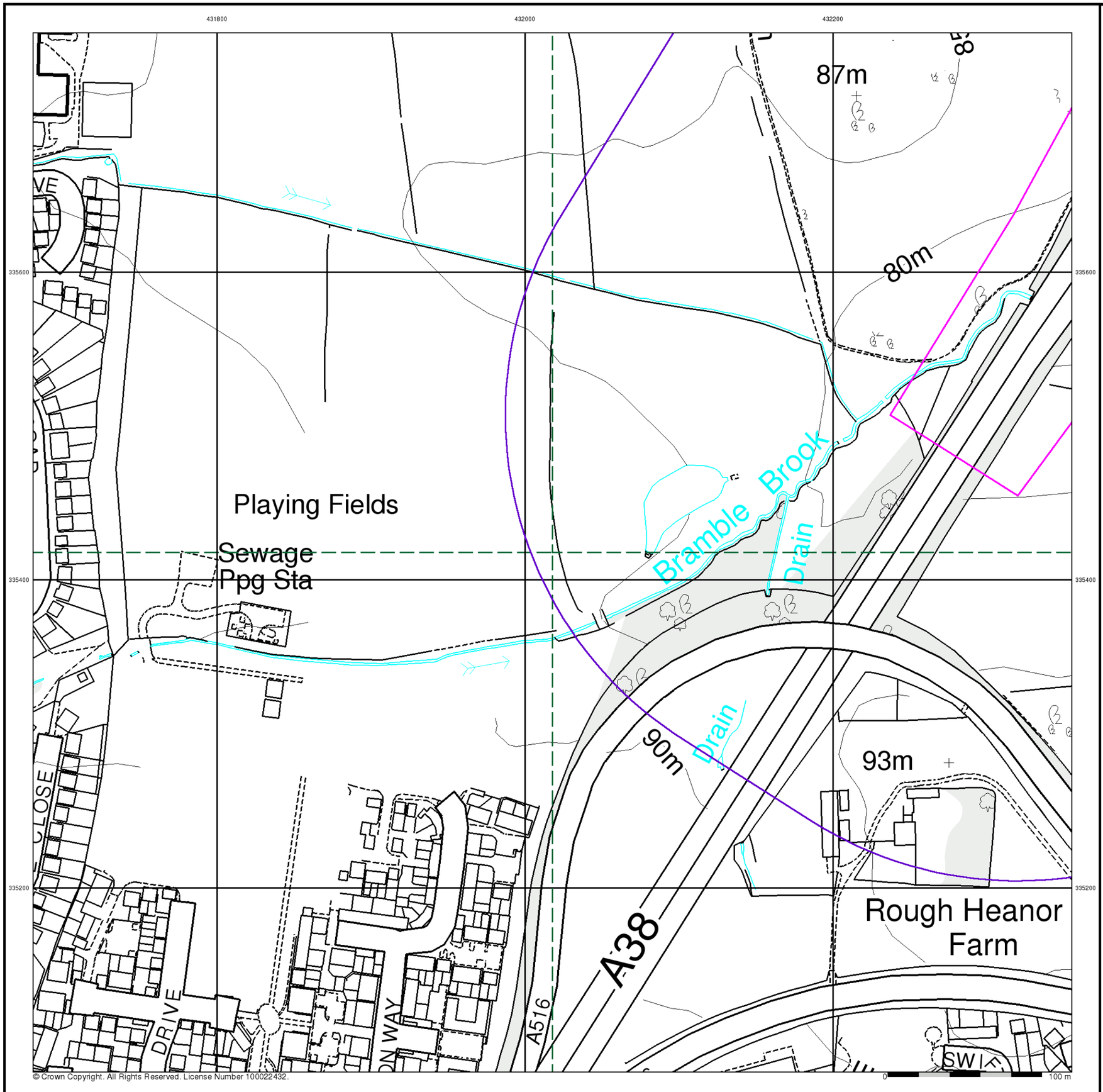
Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Ordnance Survey Licensed Partner
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	THE COAL AUTHORITY
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett
Wardell Armstrong	wardell armstrong your earth our world
Johnson Poole & Bloomer	JPB

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

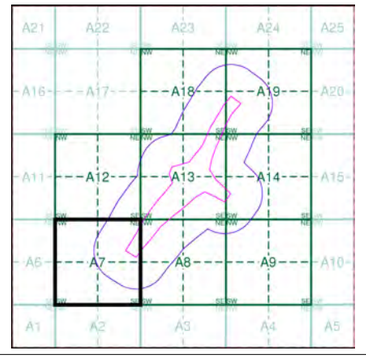
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

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Extractive Industries Activity from 1893 - 1915	▲	—	▭
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▭
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A7



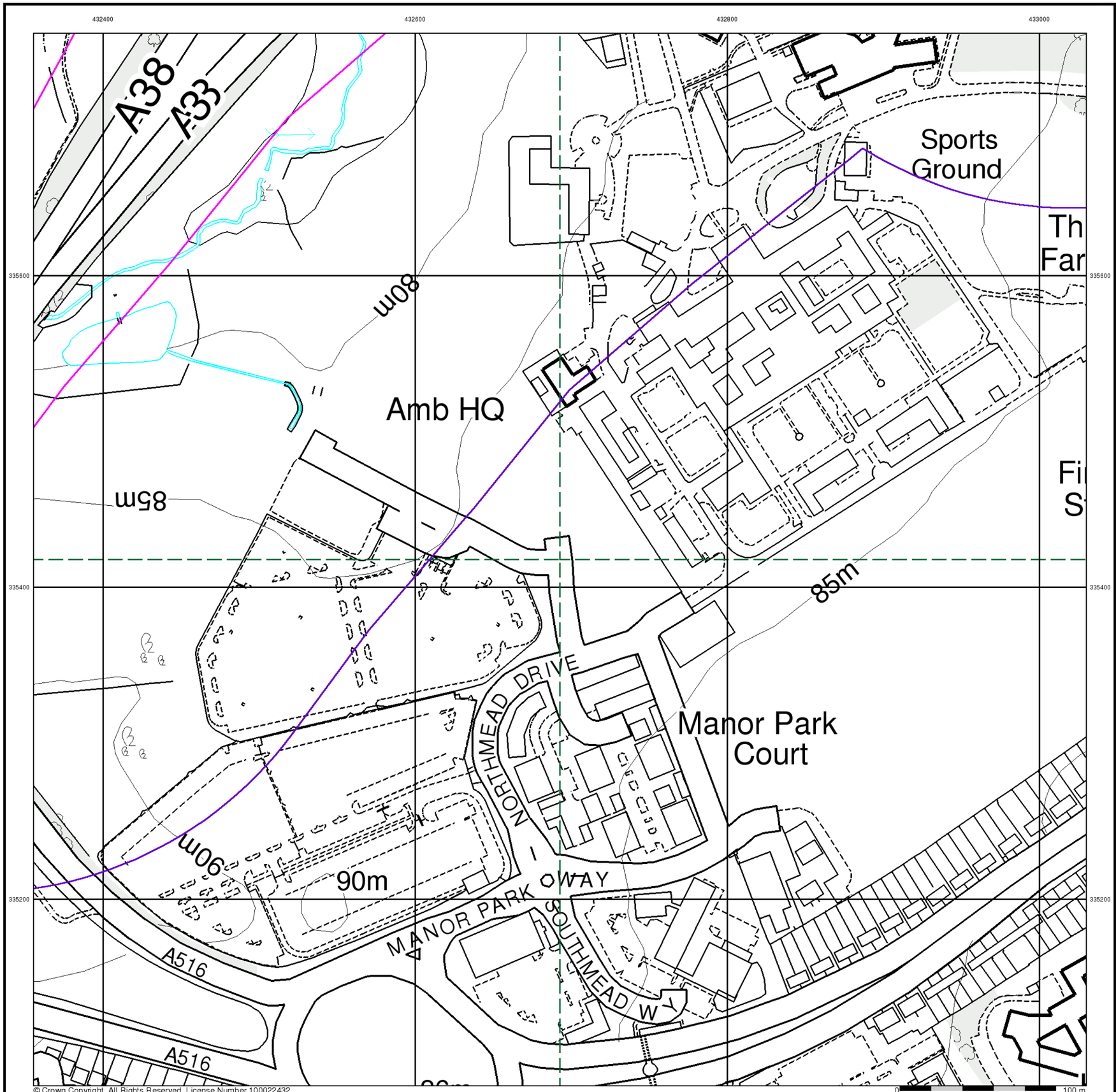
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

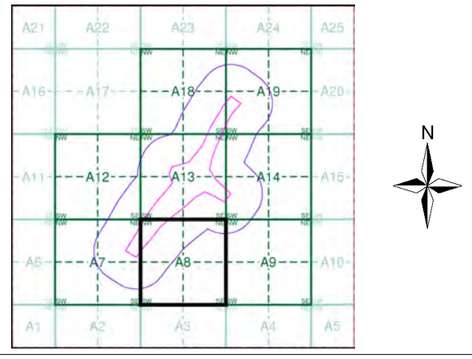
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

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Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▭
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▭
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A8



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

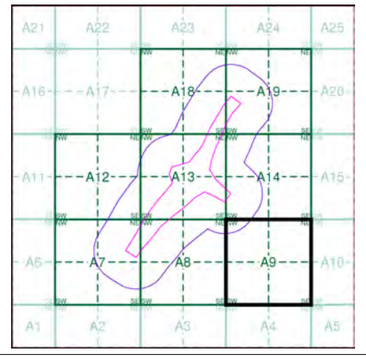
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

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Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▤
Extractive Industries Activity from 1924 - 1949	▲	—	▧
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▩

Mining and Ground Stability - Segment A9



Order Details

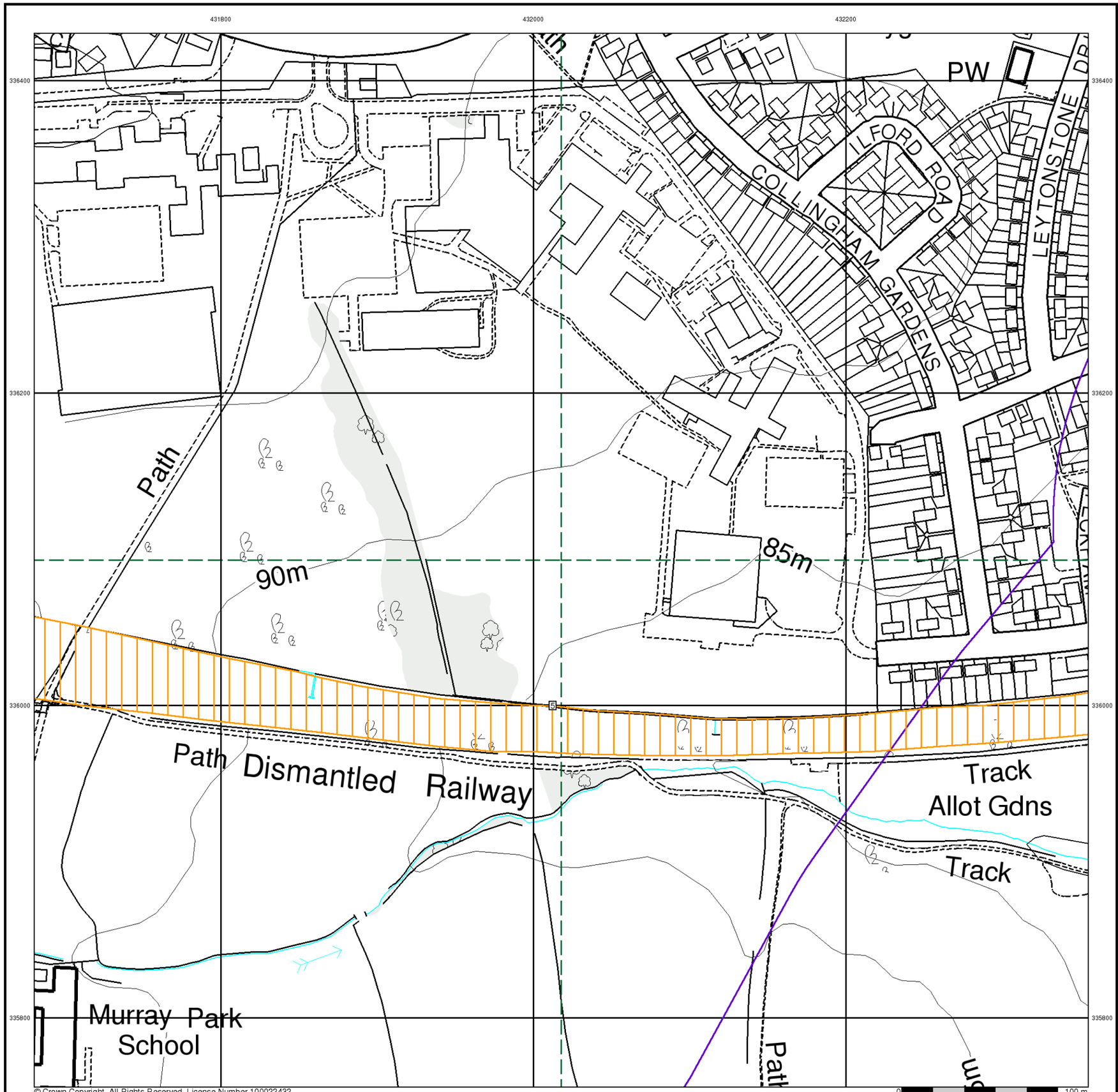
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

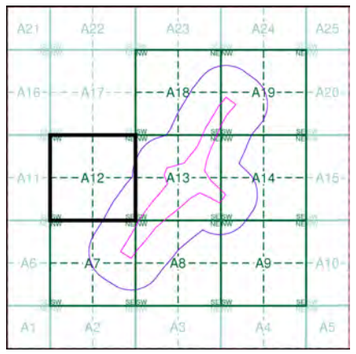
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

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Extractive Industries Activity from 1893 - 1915	▲	—	▭
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▭
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A12



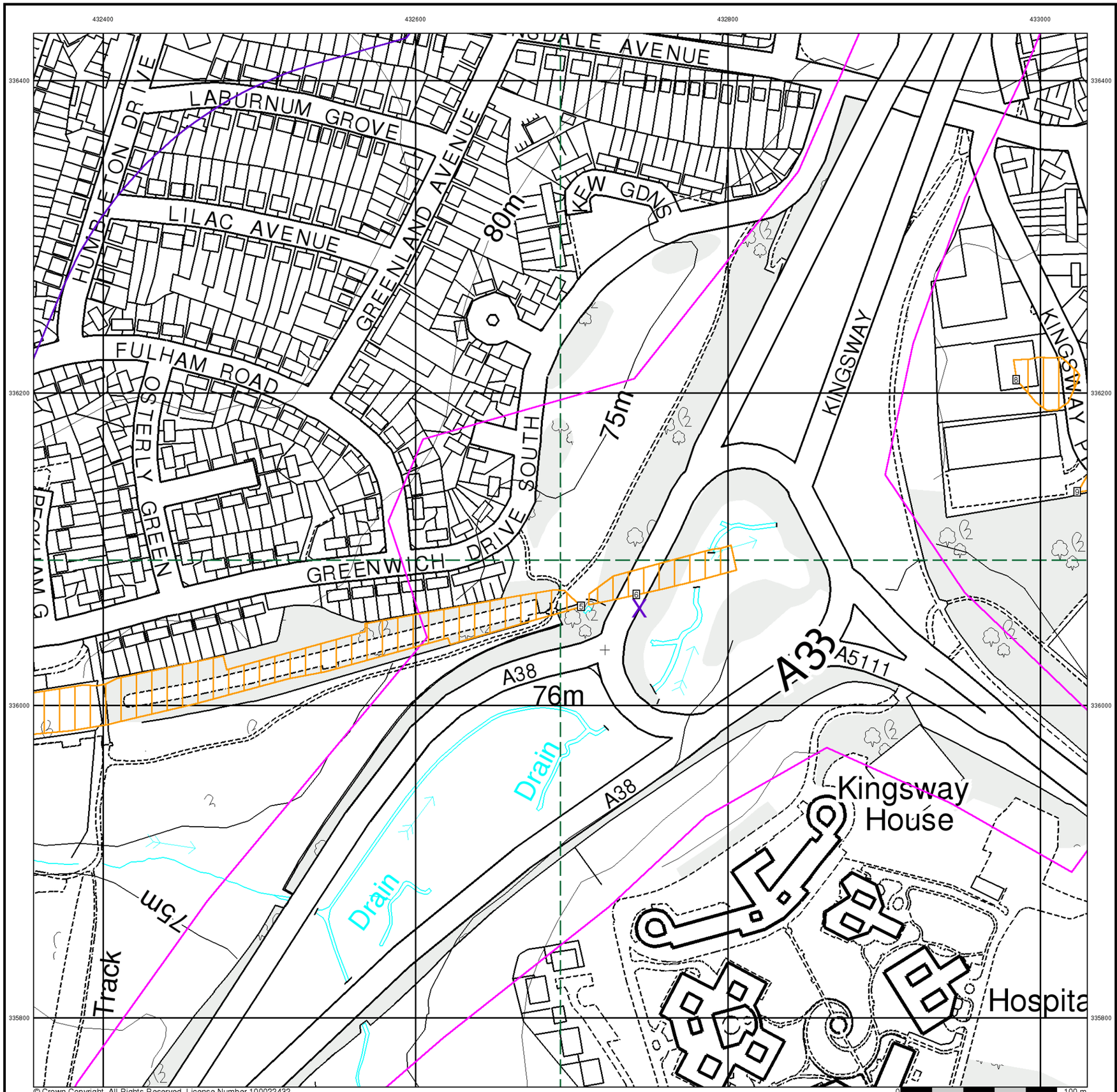
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Web: www.envirocheck.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

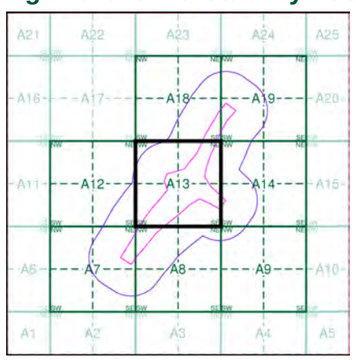
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▤
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A13



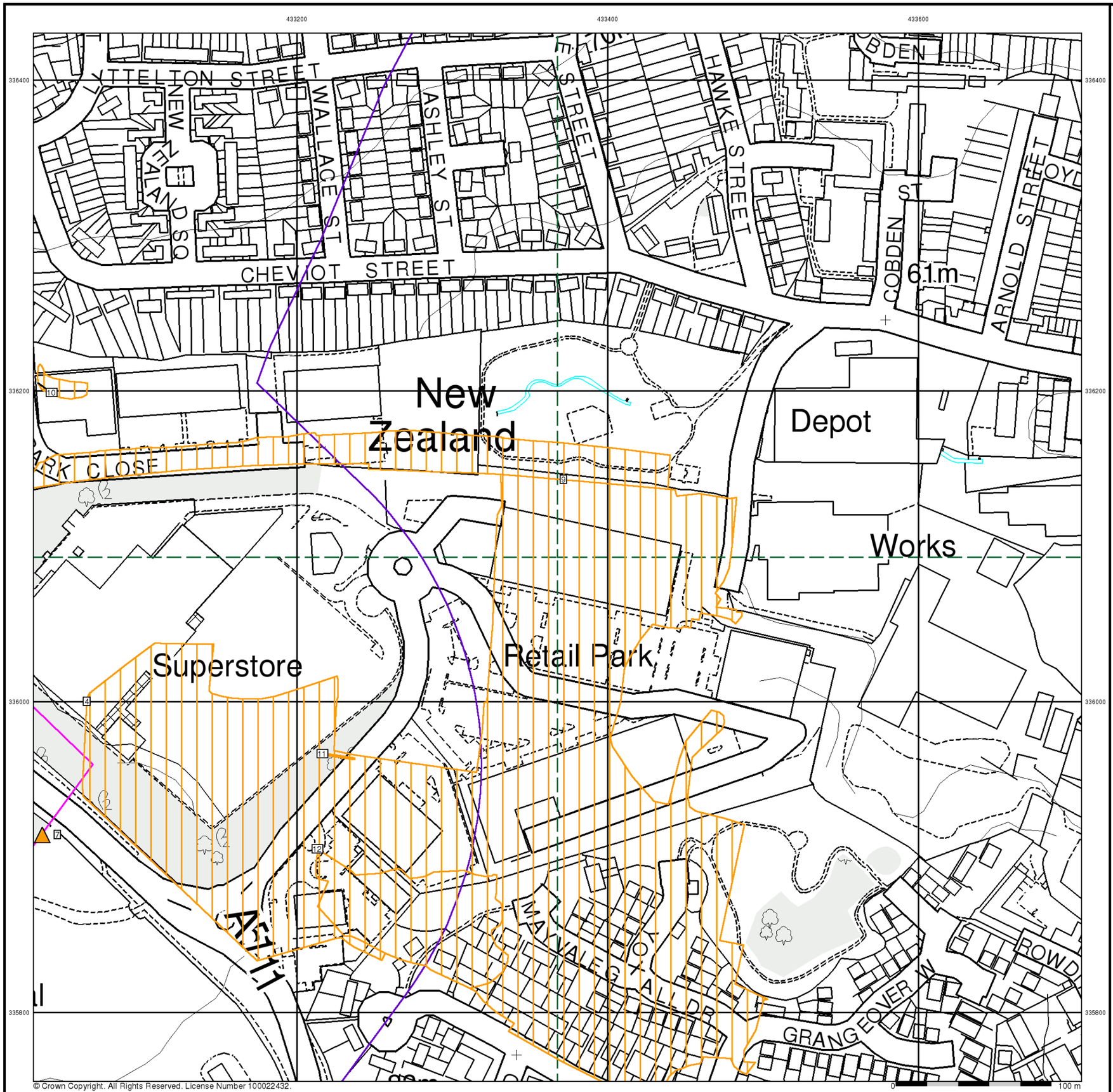
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

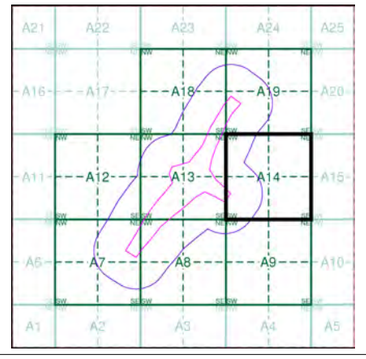
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▭
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▭
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A14



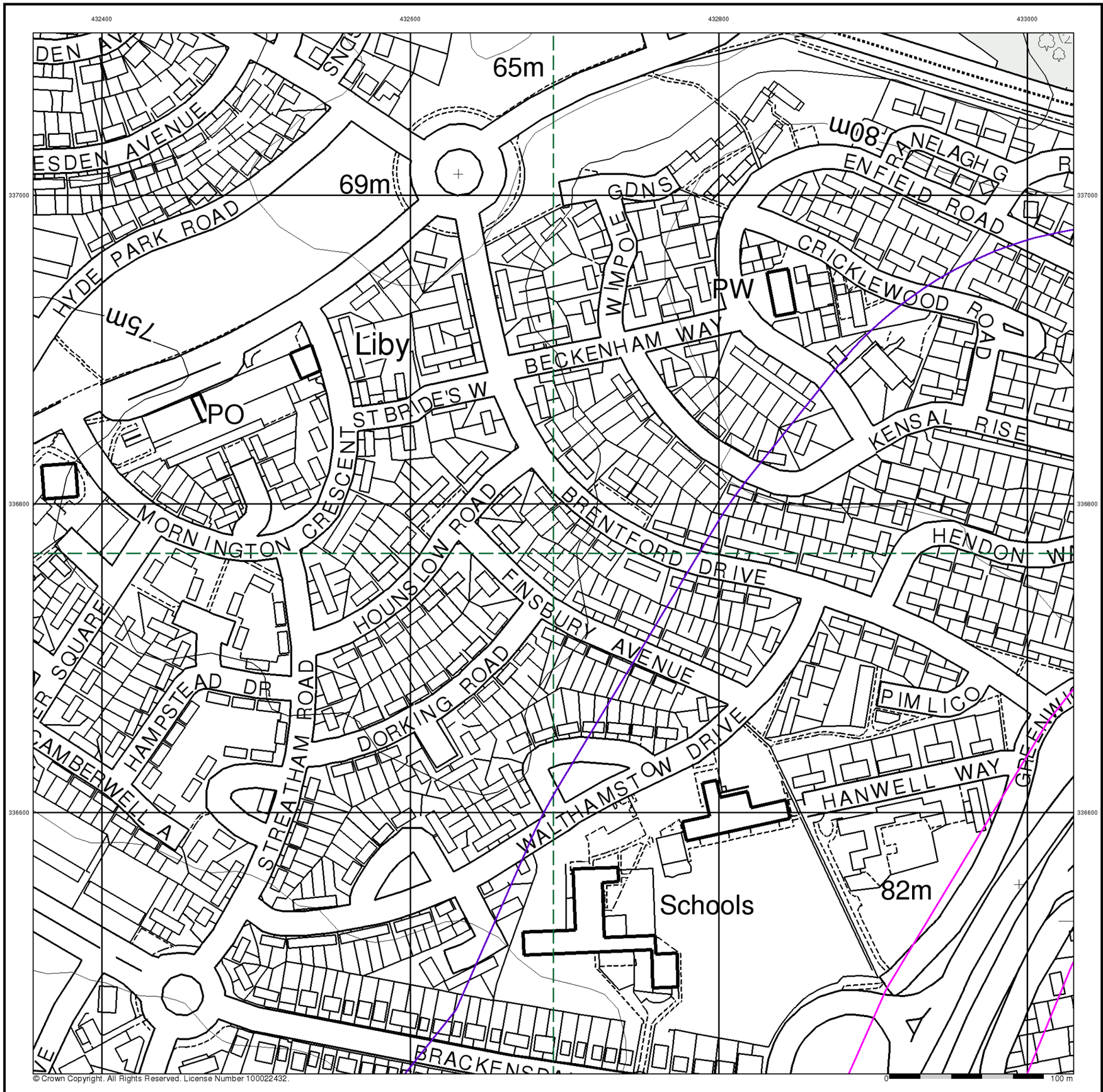
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

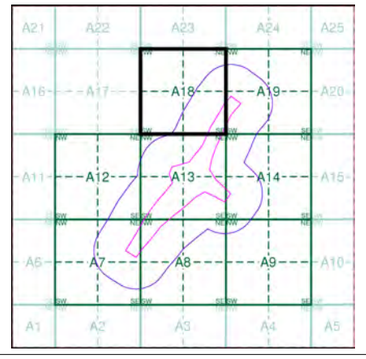
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▭
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▭
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A18



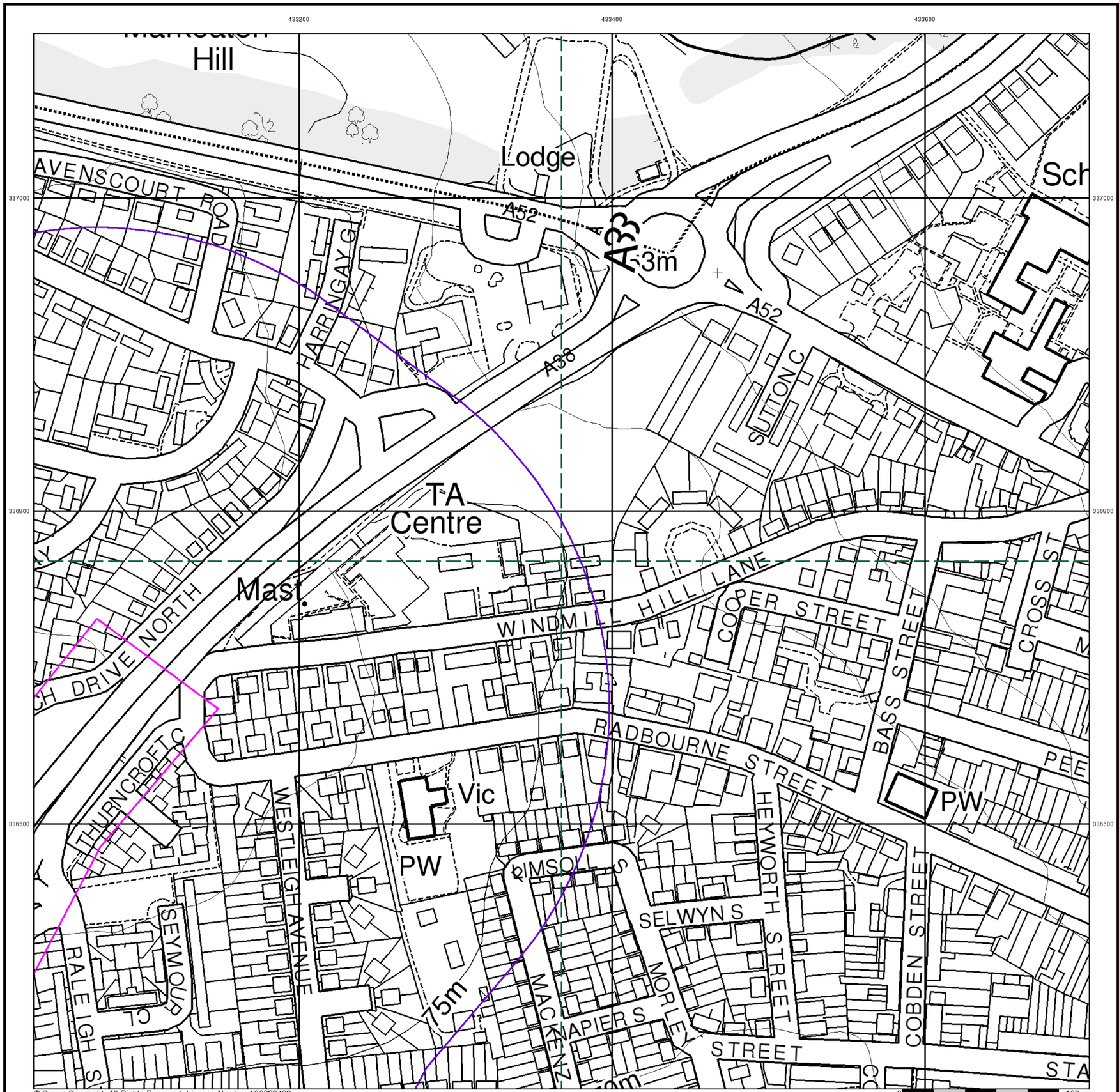
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

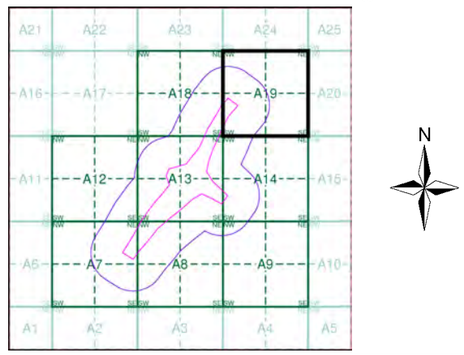
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▭
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▭
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A19



Order Details

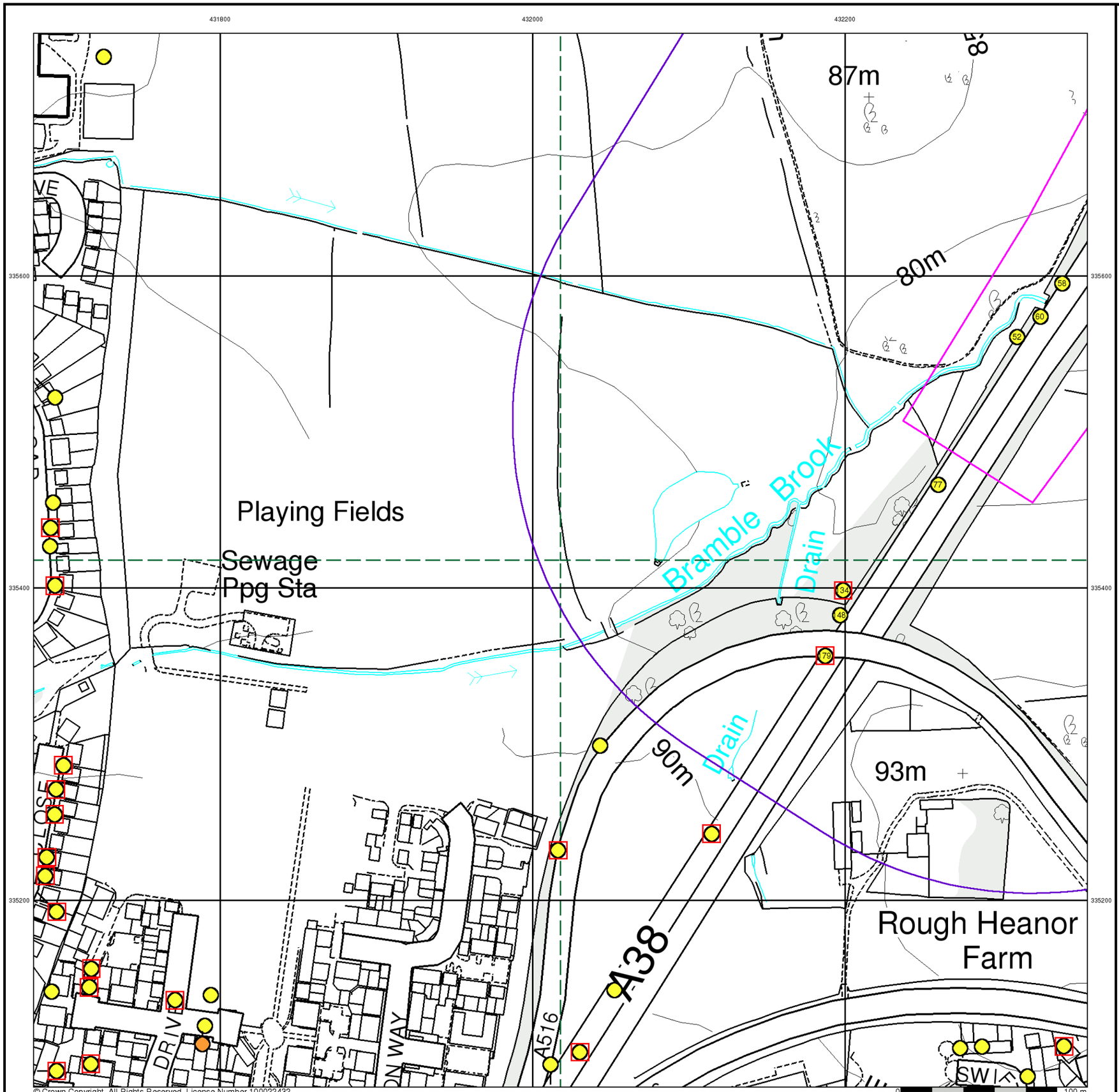
Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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Web: www.envirocheck.co.uk



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Envirocheck® Mining

Motion Map Data (1:2,500)

General

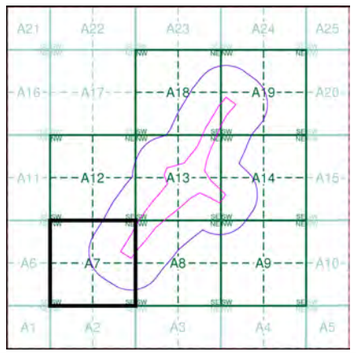
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A7



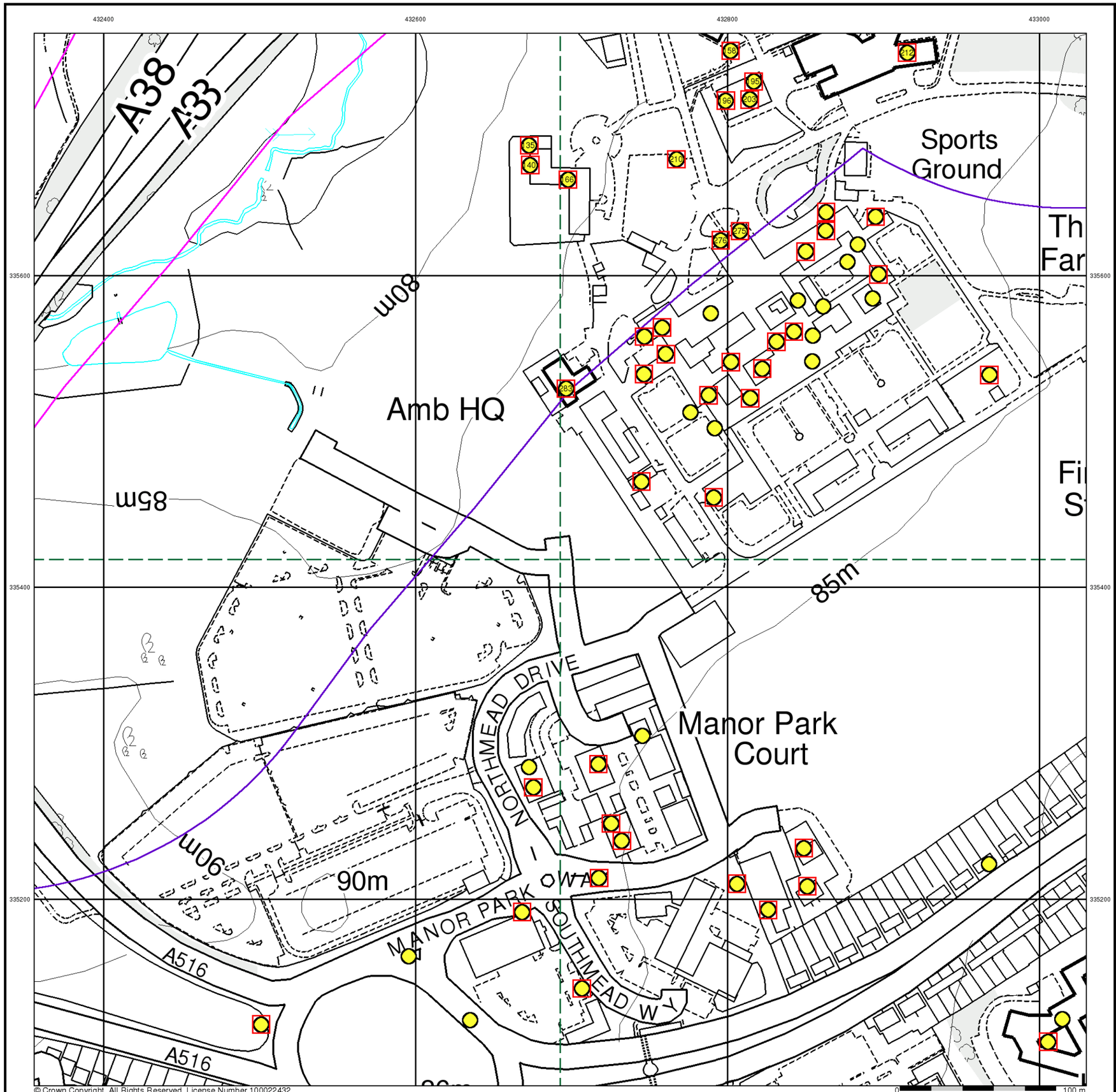
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
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Motion Map Data (1:2,500)

General

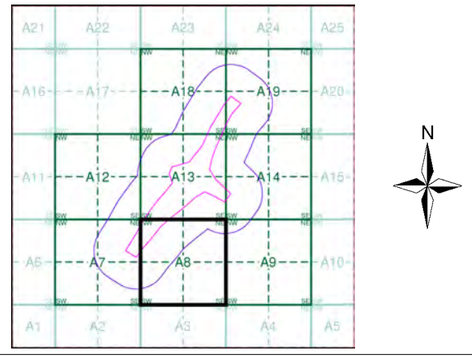
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

Upward Movement > 3.5mm per year	
Upward Movement 1.5mm to 3.5mm per year	
Stable 1.5mm to -1.5mm per year	
Downward Movement -1.5mm to -3.5mm per year	
Downward Movement > -3.5mm per year	

Mining and Ground Stability - Segment A8



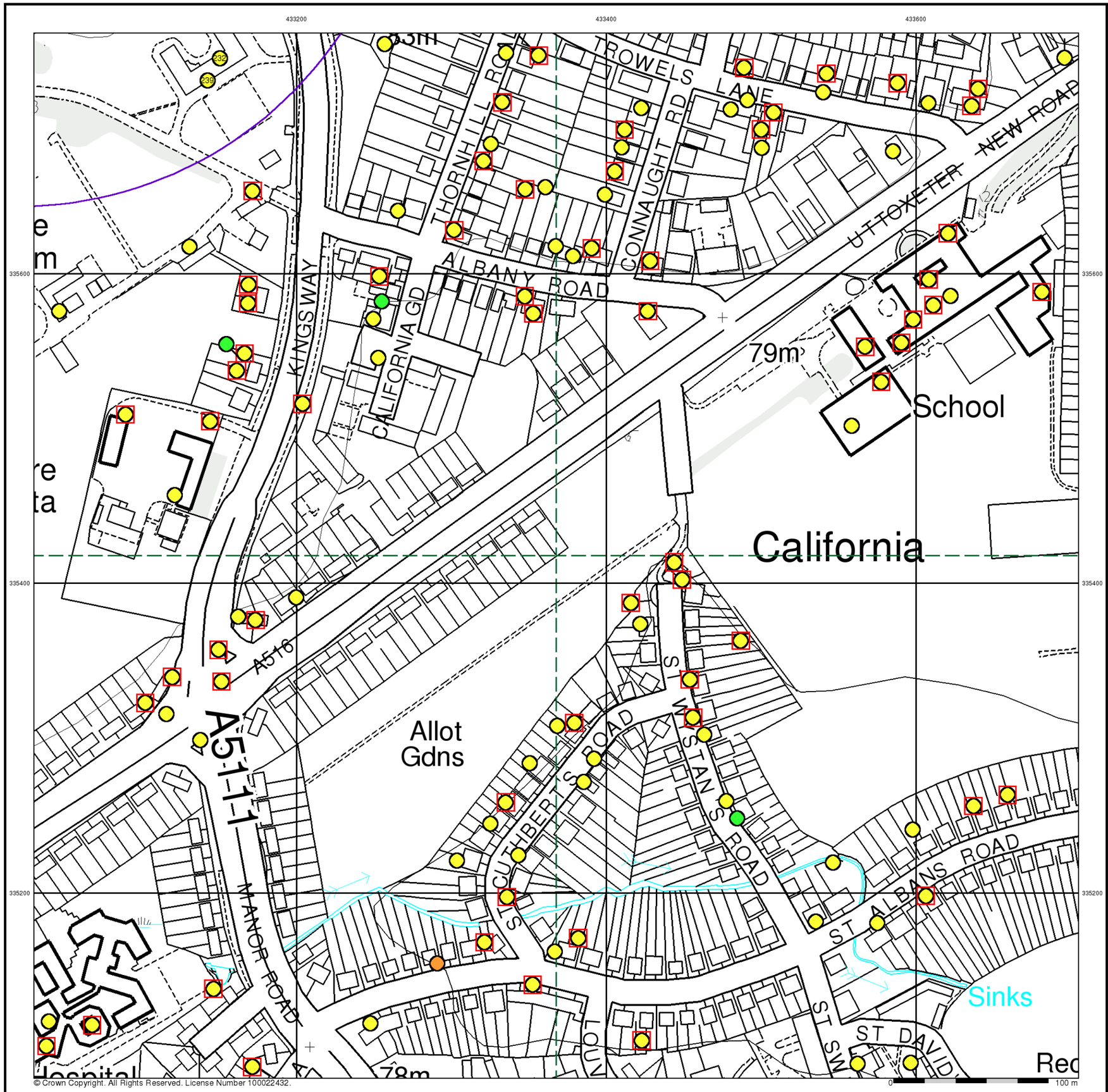
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
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Web: www.envirocheck.co.uk



Envirocheck® Mining

Motion Map Data (1:2,500)

General

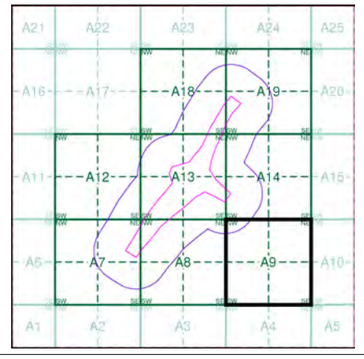
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A9



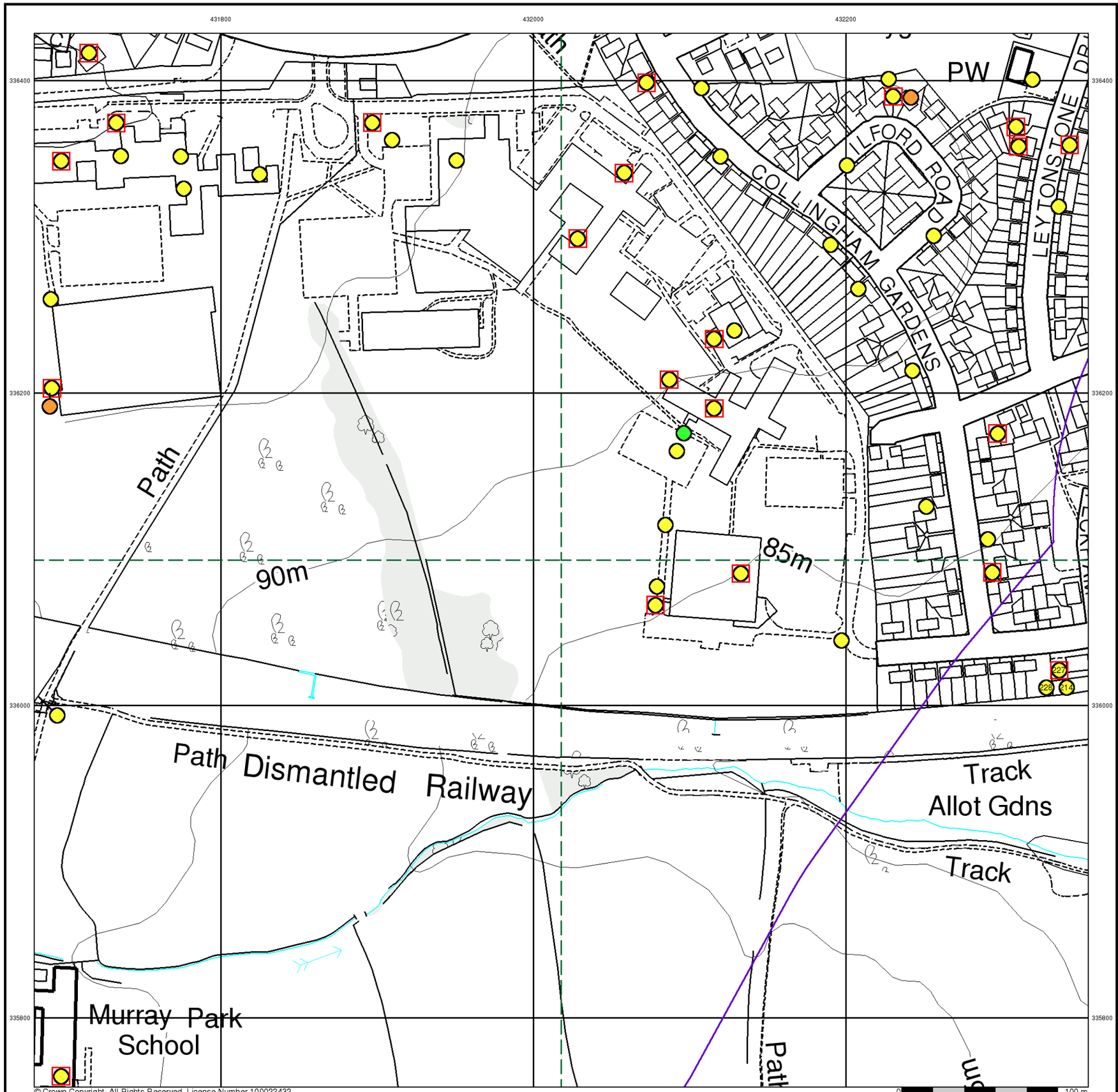
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

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Motion Map Data (1:2,500)

General

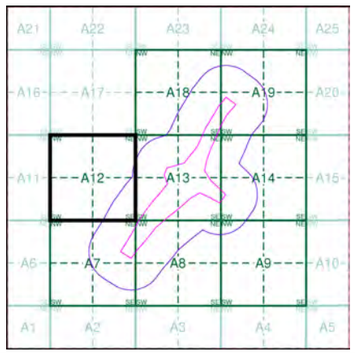
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A12



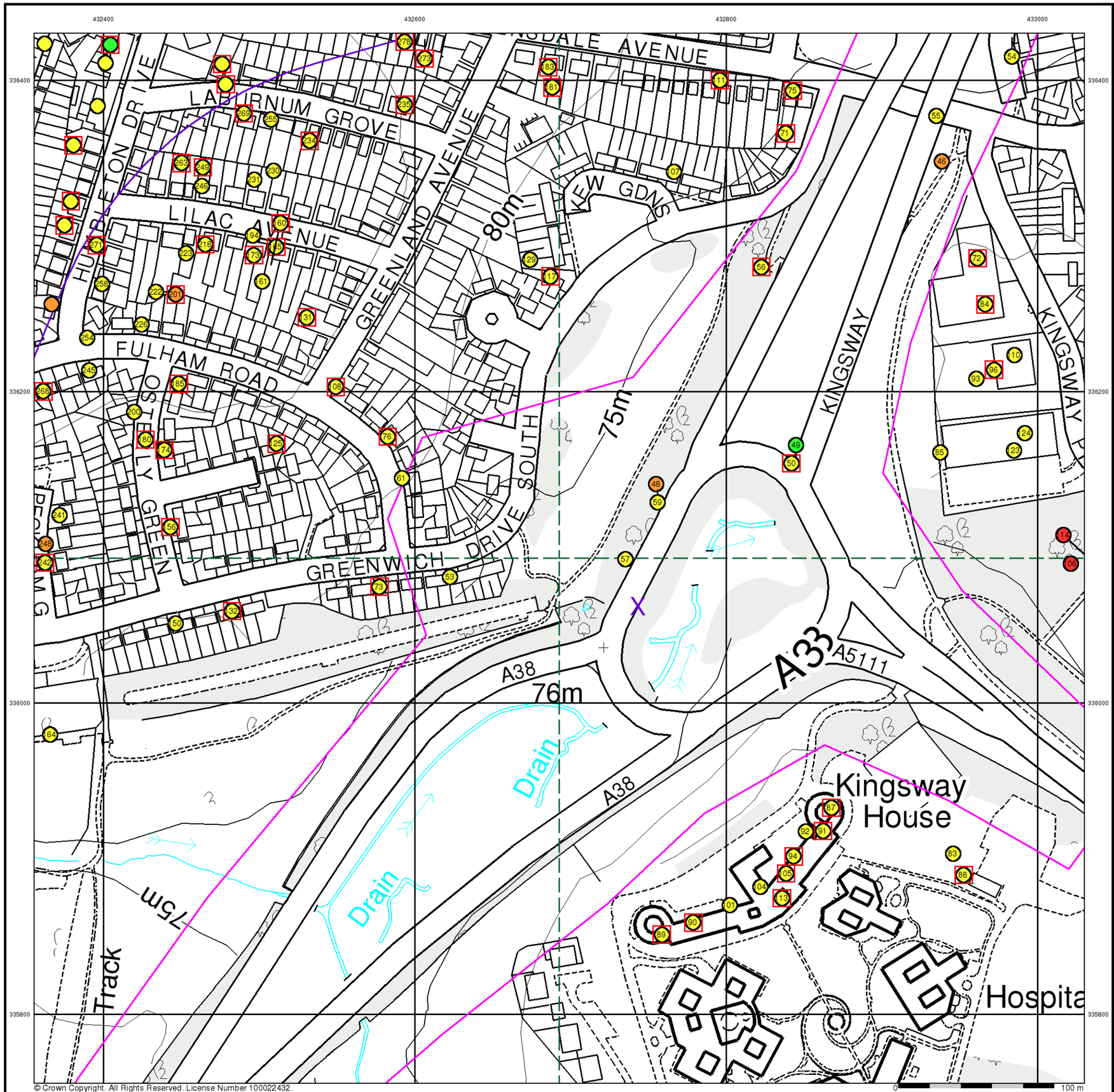
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Motion Map Data (1:2,500)

General

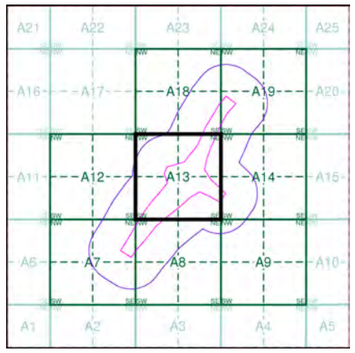
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A13



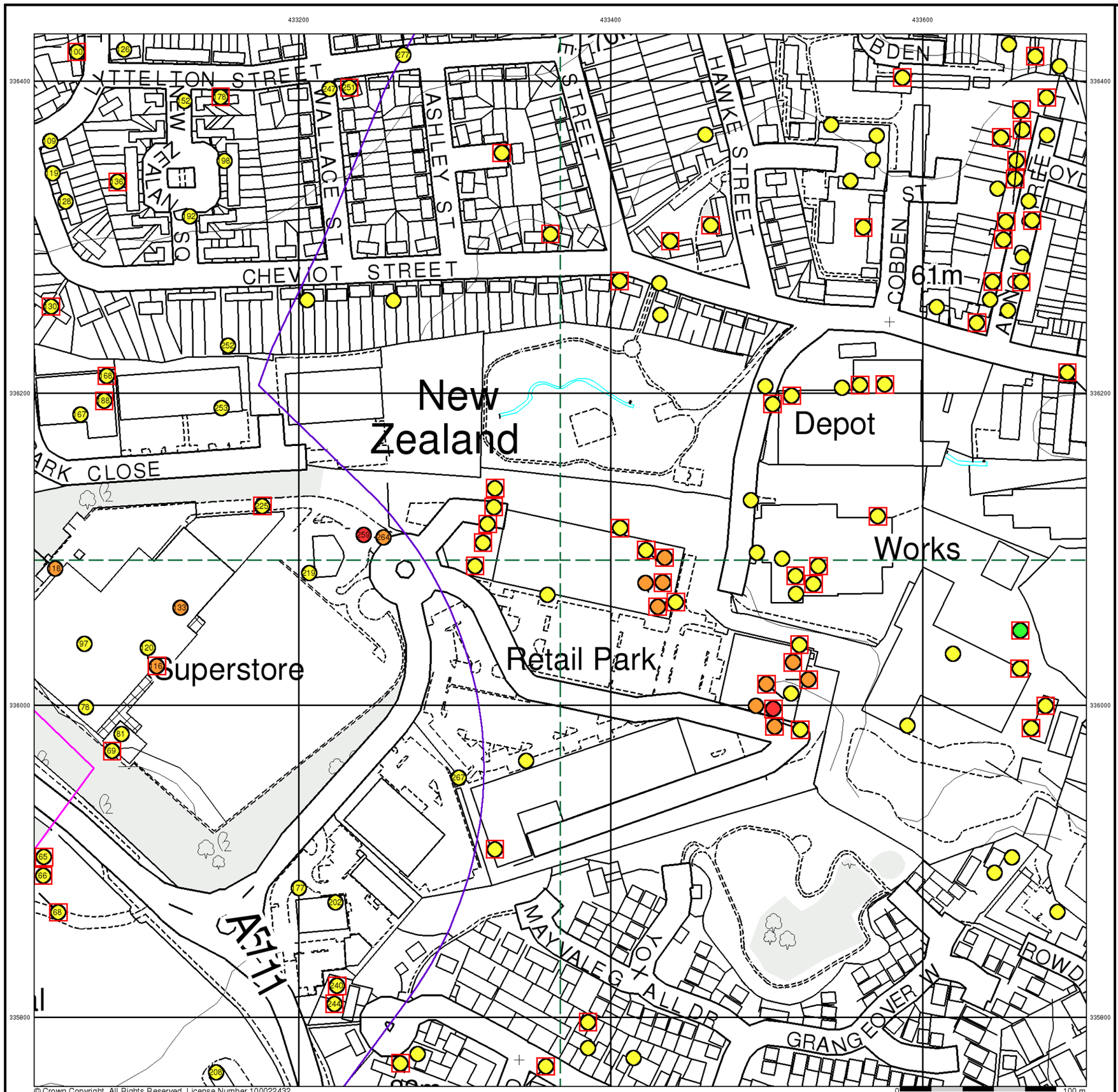
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Envirocheck® Mining

Motion Map Data (1:2,500)

General

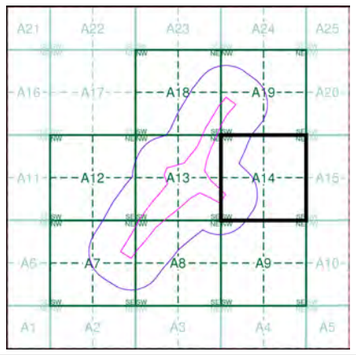
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A14



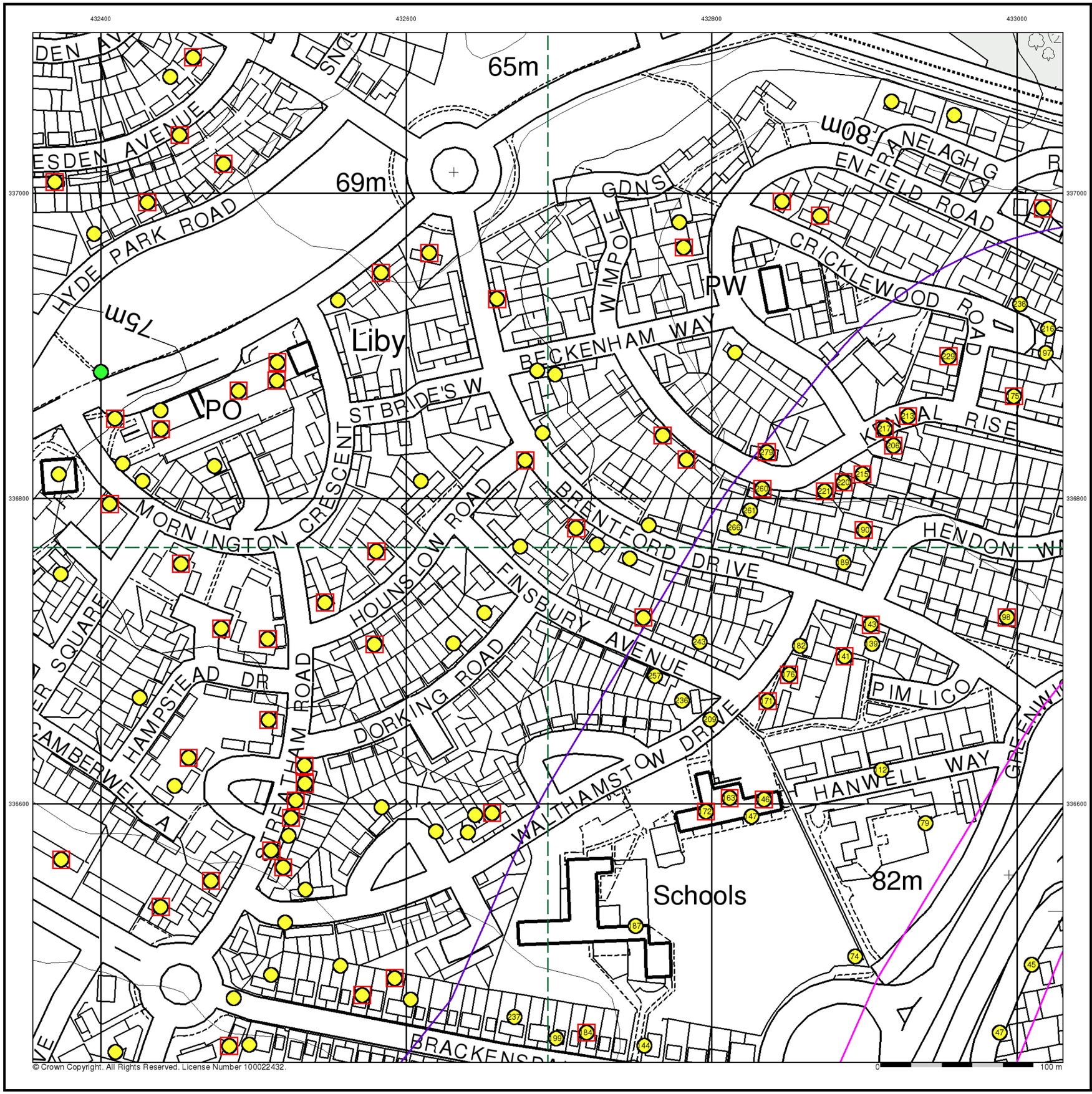
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Motion Map Data (1:2,500)

General

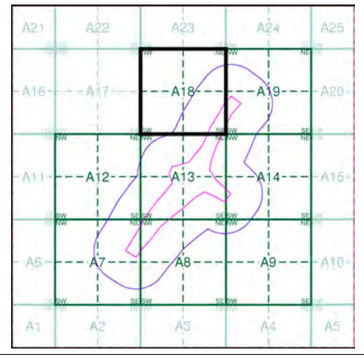
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A18



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Motion Map Data (1:2,500)

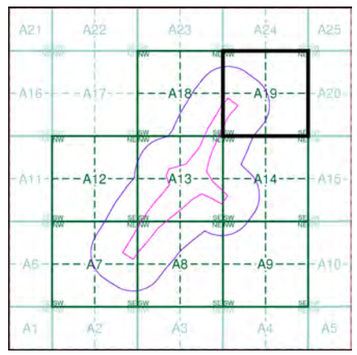
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A19



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

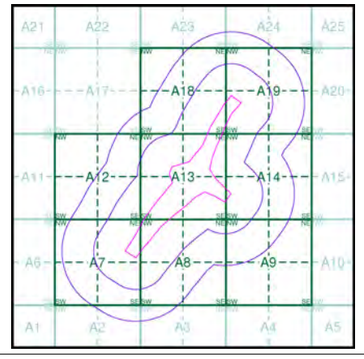
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

Envirocheck®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:10,560	1886	3
Derbyshire	1:10,560	1901	4
Derbyshire	1:10,560	1919	5
Derbyshire	1:10,560	1938	6
Ordnance Survey Plan	1:10,000	1955	7
Ordnance Survey Plan	1:10,000	1972	8
Ordnance Survey Plan	1:10,000	1979	9
Ordnance Survey Plan	1:10,000	1980	10
Ordnance Survey Plan	1:10,000	1988	11
Derby	1:10,000	1991	12
Ordnance Survey Plan	1:10,000	1992	13
10K Raster Mapping	1:10,000	2000	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2014	16

Historical Map - Slice A



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

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Web: www.envirocheck.co.uk

Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Fireproof Building
- Prominent Fireproof Building
- Non-fireproof Building
- Non-fireproof Building (non-dwelling)
- Factory, mill, and flour mill, with chimneys
- Factory, mill, and flour mill, without chimneys
- Power Station, drawn to scale (эл.ст.)
- Hydroelectric Power Station (ГЭС)
- Radio Station, drawn to scale
- Telephone Station, drawn to scale
- Abandoned Open-pit Mine or Quarry
- Open-pit Salt Mine (сол.)
- Pit (−1,5)
- Oil Deposit or Well (нефть)
- Oil Seepage (нефть)
- Tailings Pile (+7.0 отвал)
- Fuel Storage Tanks (скл. гор.)
- Natural Gas Tank (газг.)
- Bench Mark (125.4 / 125.1)
- Drill Hole (бур.)
- Burial Mound (+2.0)
- Triangulation Point on Burial Mound (+1.2 67.8)
- Single-track Railroad (Fill, раз., платф., Cut)
- Double-track Railroad and Station Building (Small Bridge, ст., тун., Tunnel, Pipe (Culvert))
- Coniferous Forest (сосна 24 0.30)
- Deciduous Forest (клен 12 0.20)
- Mixed Forest (ель береза 20 0.25)
- Lawns
- Citrus Orchard
- Wet Ground
- Scattered Vegetation

243,8 — Values for prominent elevations

186.0 — Numbers for spot elevations, depth soundings, contour lines, etc.

0,2 — Velocity of the current, width of river bed, depth of river

180/12 180/12 — Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	ъ (–)
Д д (D)	Л л (L)	У у (U)	ы (Y)
Е е (E)	М м (M)	Ф ф (F)	ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Partly Demolished Buildings
- Demolished Buildings
- Built-Up Area with Fireproof Buildings Predominant
- Built-Up Area with Non-Fireproof Buildings Predominant
- Individual Fireproof Building
- Prominent Industrial Building
- Individual Dwelling, Fireproof
- Ruins of an Individual Dwelling
- Factory or Mill Chimney
- Factory or Mill with Chimney (бум.)
- Factory or Mill without Chimney (скип.)
- Mine or Open Pit Mine (медн.)
- Operating Shaft or Mine (кам. уг.)
- Non-Operating Shaft or Mine
- Salt Mine (сол.)
- Tailings Pile
- Pit (−1.7)
- Stone Quarry (гл. пес. кам.)
- Gas Pump or Service Station
- Fuel Storage or Natural Gas Tank
- Oil or Natural Gas Derrick
- Small Hydroelectric Power Station
- Power Station
- Transformer Station (б.тр.)
- Cemetery
- Burial Mound (height in metres) (+8.1)
- Triangulation Point on Burial Mound (95.7)
- Triangulation Point (92.6)
- Bench Mark (52.1)
- Bench Mark (monumented) (71.1)
- Telegraph Office
- Telephone Station
- Radio Station
- Radio Tower
- Airfield or Seaplane Base
- Landing Strip
- Main Highway (Cut, Fill, Km Post, Plantings, Telegraph/Telephone Lines)
- Highway under Construction
- Improved Dirt Road (former truck road) (Width of Road, Steep Grade)
- Double-track Railroad with First Class Station (Small Bridge, ст., Pipe (Culvert), Tunnel)
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- River or Ditch with Embankment (+2.4)
- Direction and velocity of current (Water Gauge, 0.2, 135.1, Water Level Mark)
- Well (К. 125.0 гл.8м (г.-сол.))
- Water Reservoir or Rain Water Pit (вдхр.)
- Spring (156.2 кл.)
- Isobath with value (20)
- Heavy (Index) Contour Line
- Contour Line and Value (20)
- Half Contour Line
- Spot Elevation Value (347.1)
- Coniferous
- Deciduous
- Mixed
- Scrub

Key to Numbers on Mapping

SK33NW_Derby

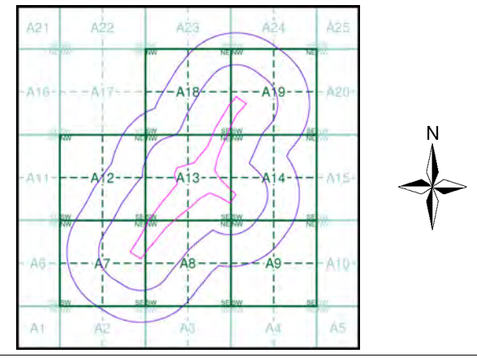
No.	Description
41	Police Station/Headquarters
72	Telephone Exchange

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:10,560	1886	3
Derbyshire	1:10,560	1901	4
Derbyshire	1:10,560	1919	5
Derbyshire	1:10,560	1938	6
Ordnance Survey Plan	1:10,000	1955	7
Ordnance Survey Plan	1:10,000	1972	8
Ordnance Survey Plan	1:10,000	1979	9
Ordnance Survey Plan	1:10,000	1980	10
Ordnance Survey Plan	1:10,000	1988	11
Derby	1:10,000	1991	12
Ordnance Survey Plan	1:10,000	1992	13
10K Raster Mapping	1:10,000	2000	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2014	16

Russian Map - Slice A



Order Details

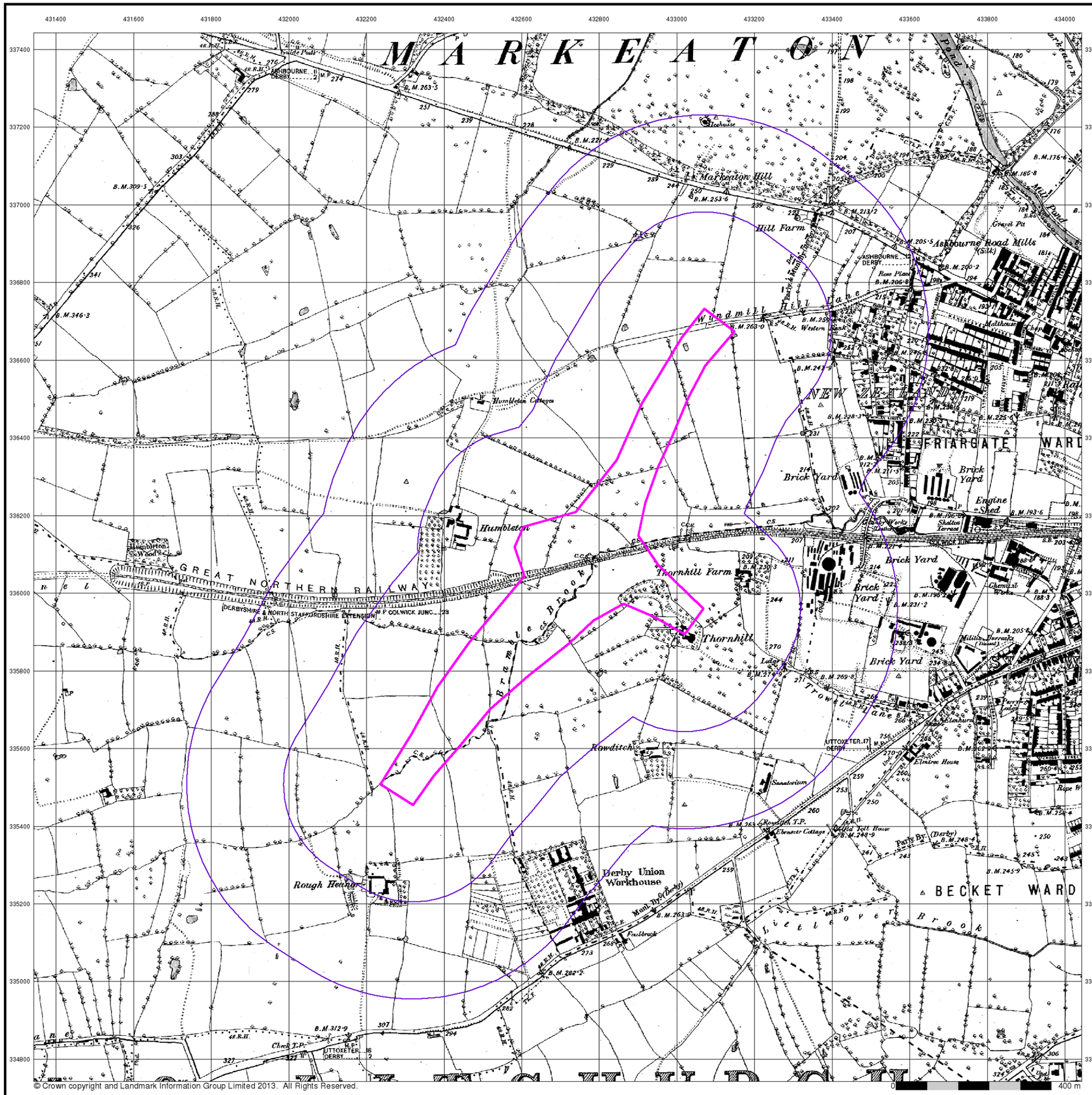
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

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Derbyshire

Published 1886

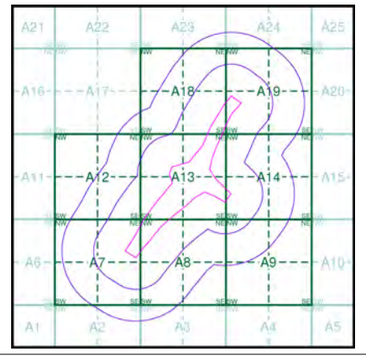
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

049SE
1886
1:10,560

Historical Map - Slice A



N

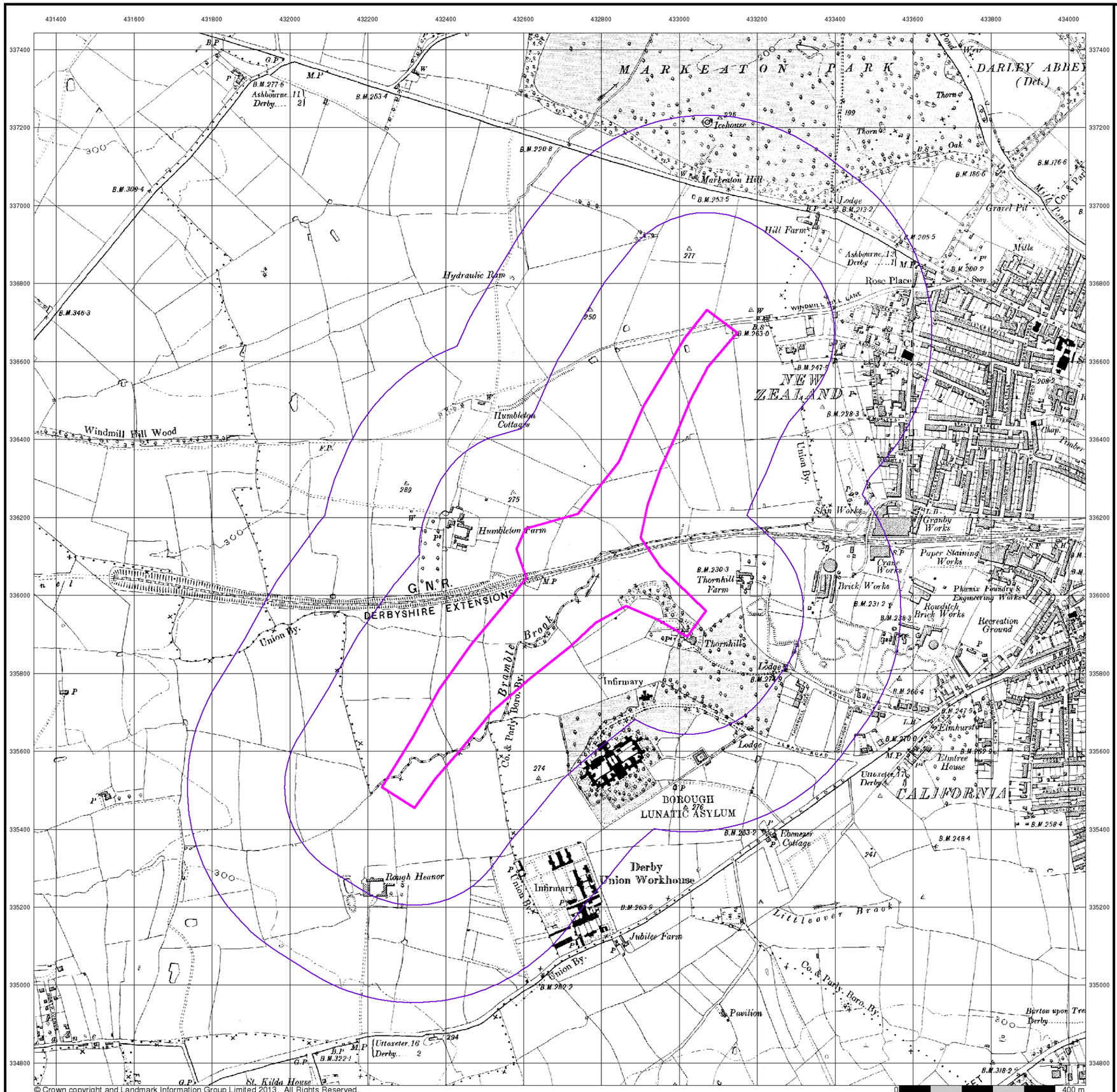
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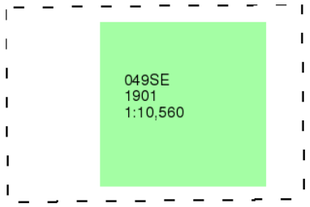
Derbyshire

Published 1901

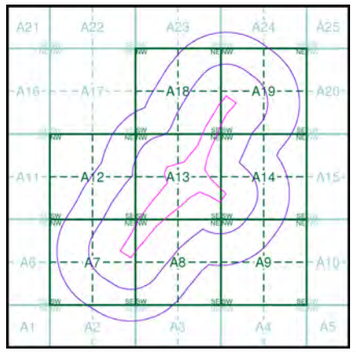
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

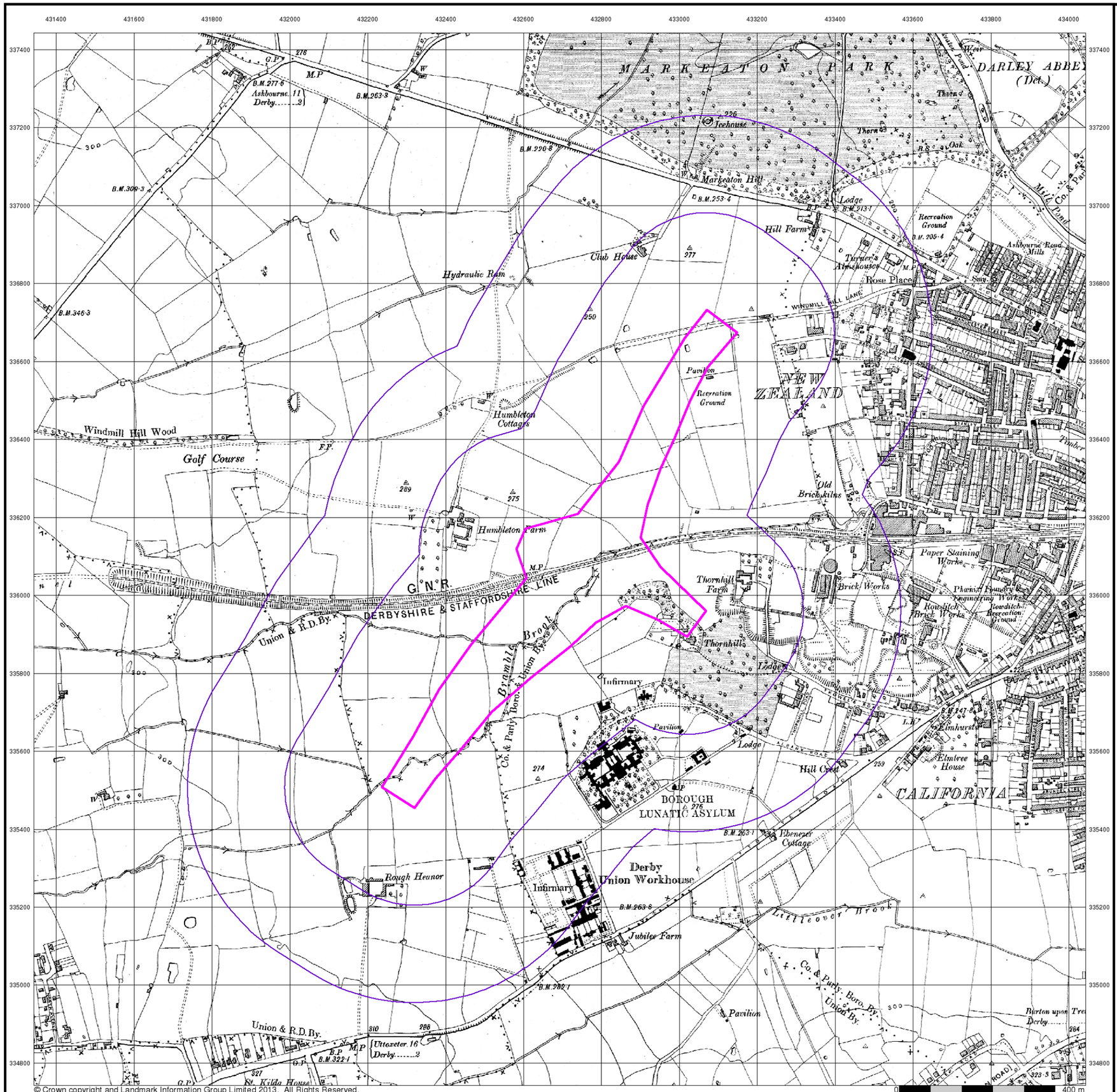
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Customer Ref:	47071637.208APS
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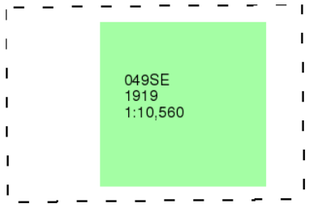
Derbyshire

Published 1919

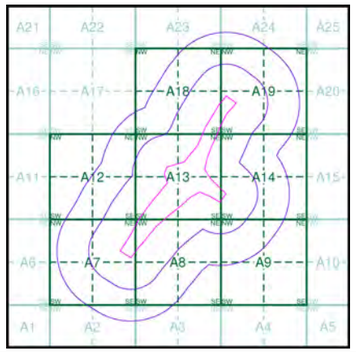
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



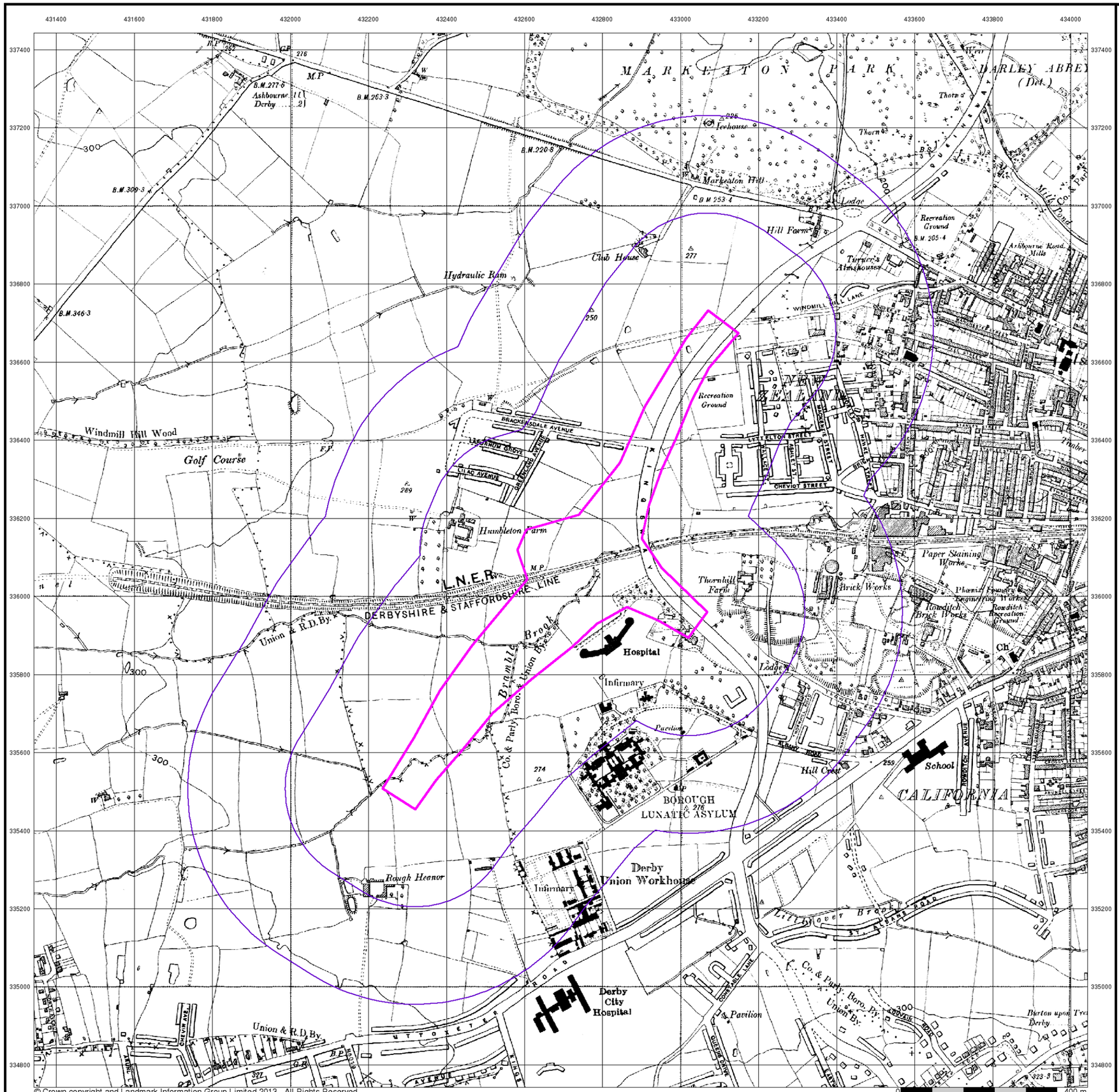
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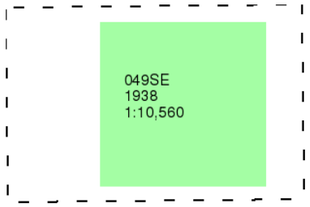
Derbyshire

Published 1938

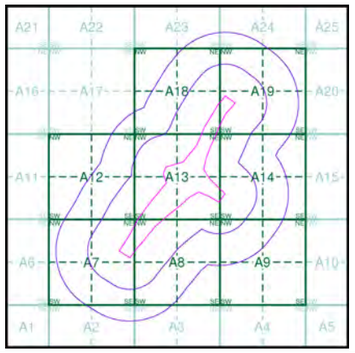
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

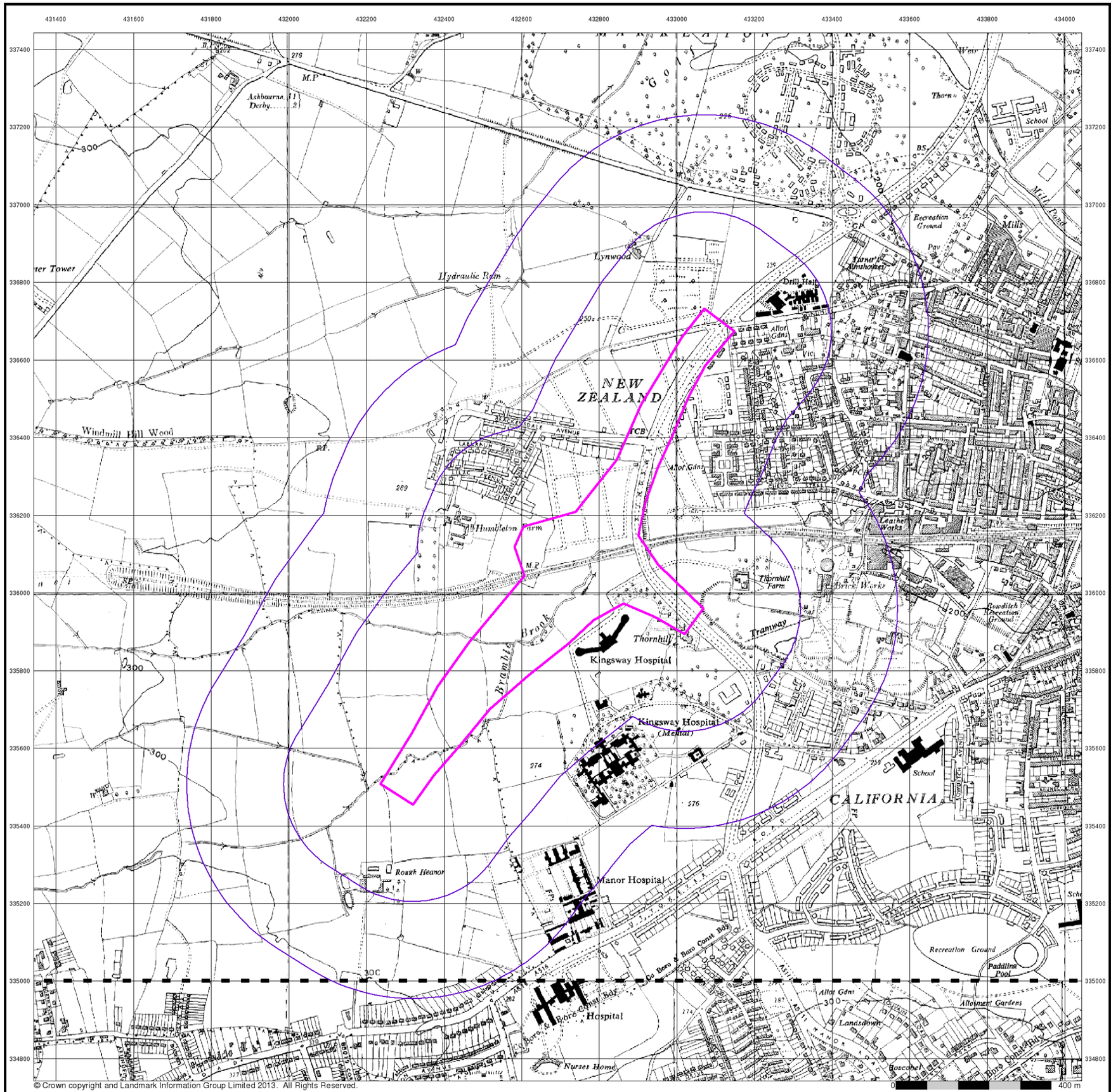
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Ordnance Survey Plan

Published 1955

Source map scale - 1:10,000

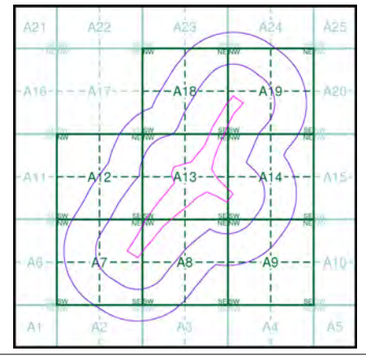
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SK33NW
1955
1:10,560

SK33SW
1955
1:10,560

Historical Map - Slice A



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

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Ordnance Survey Plan

Published 1972

Source map scale - 1:10,000

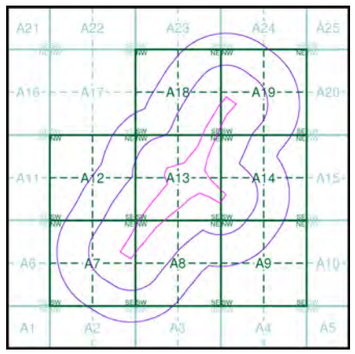
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SK33NW
1972
1:10,000

SK33SW
1972
1:10,000

Historical Map - Slice A



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

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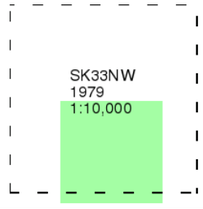
Ordnance Survey Plan

Published 1979

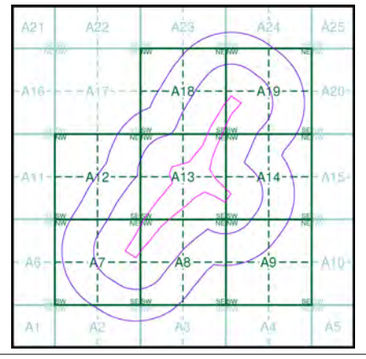
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

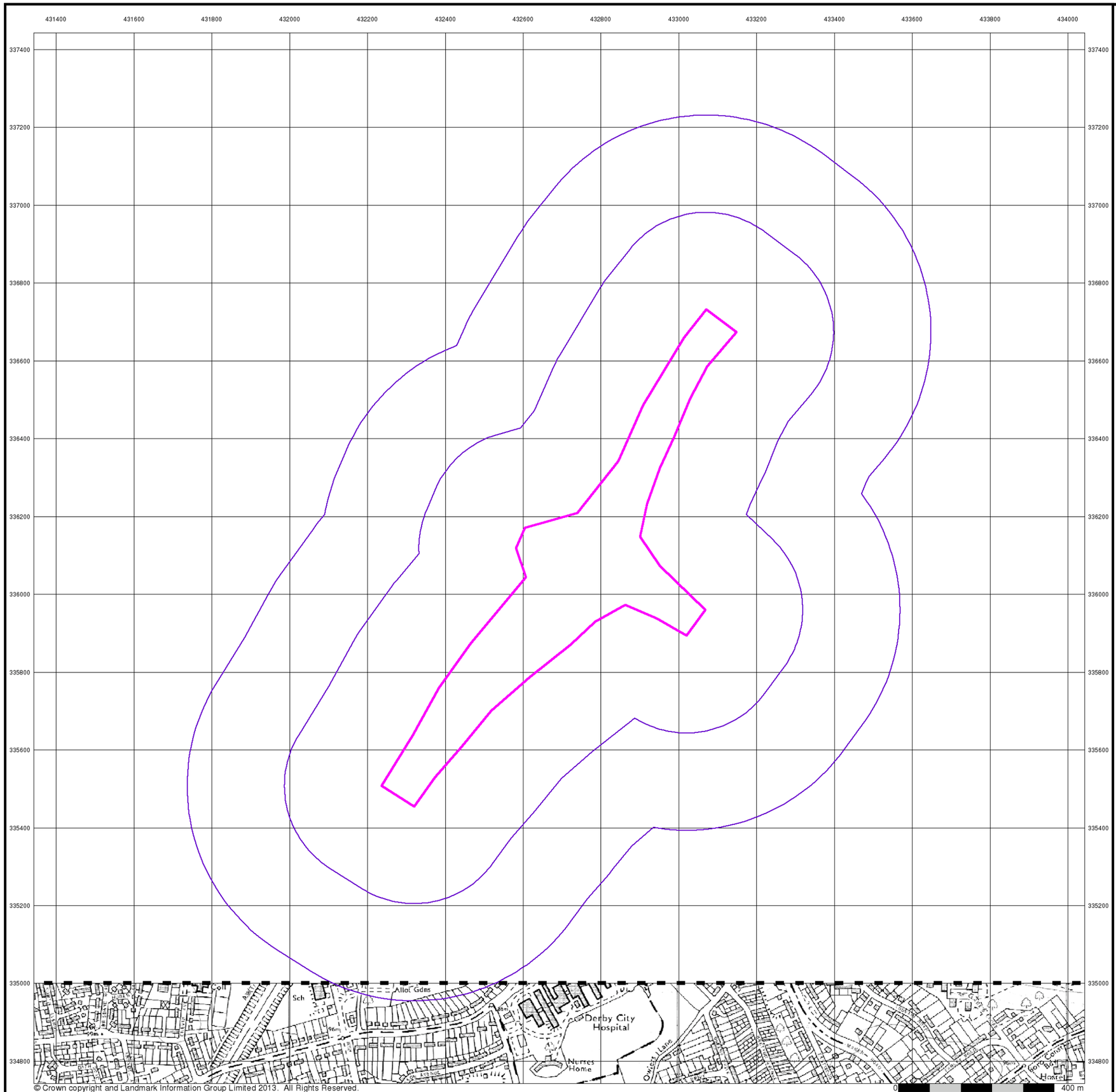
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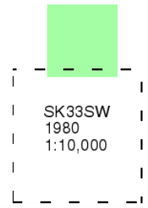
Ordnance Survey Plan

Published 1980

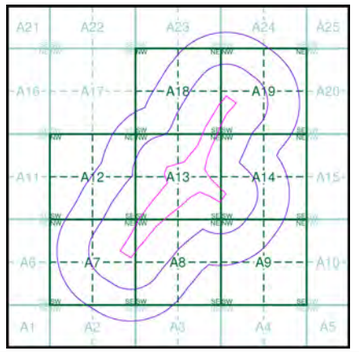
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

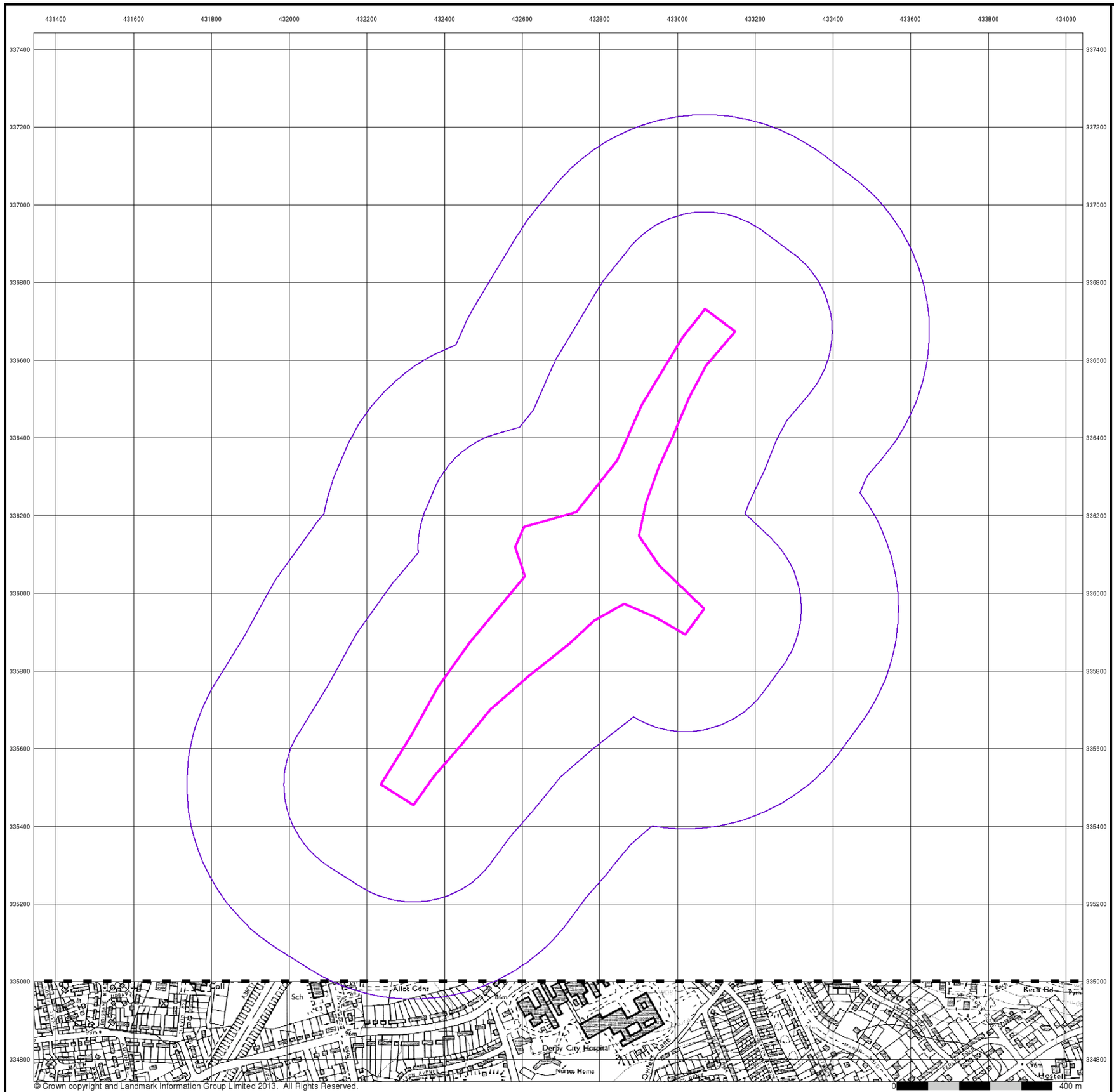
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Site Details

Site at, Derby, City of Derby

Landmark Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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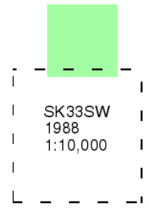
Ordnance Survey Plan

Published 1988

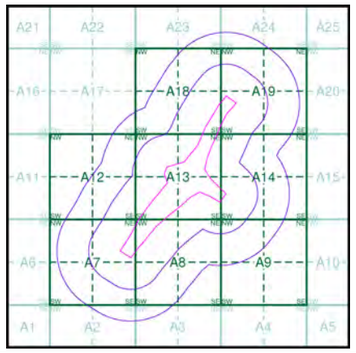
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

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Derby

Published 1991

Source map scale - 1:10,000

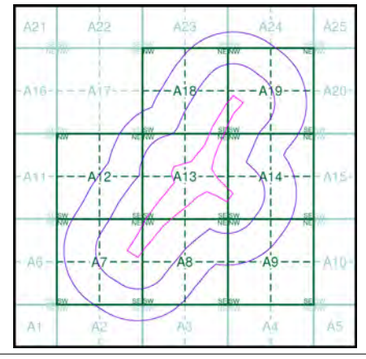
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.
They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)

SK33NW
1991
1:10,000

SK33SW
1991
1:10,000

Russian Map - Slice A



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

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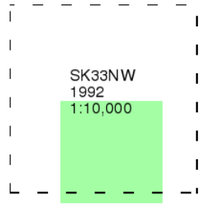
Ordnance Survey Plan

Published 1992

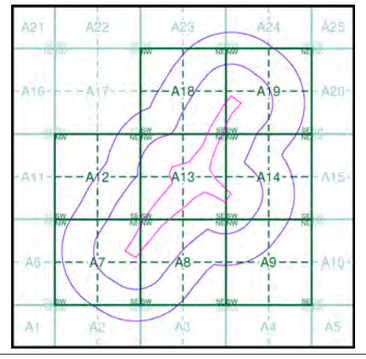
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

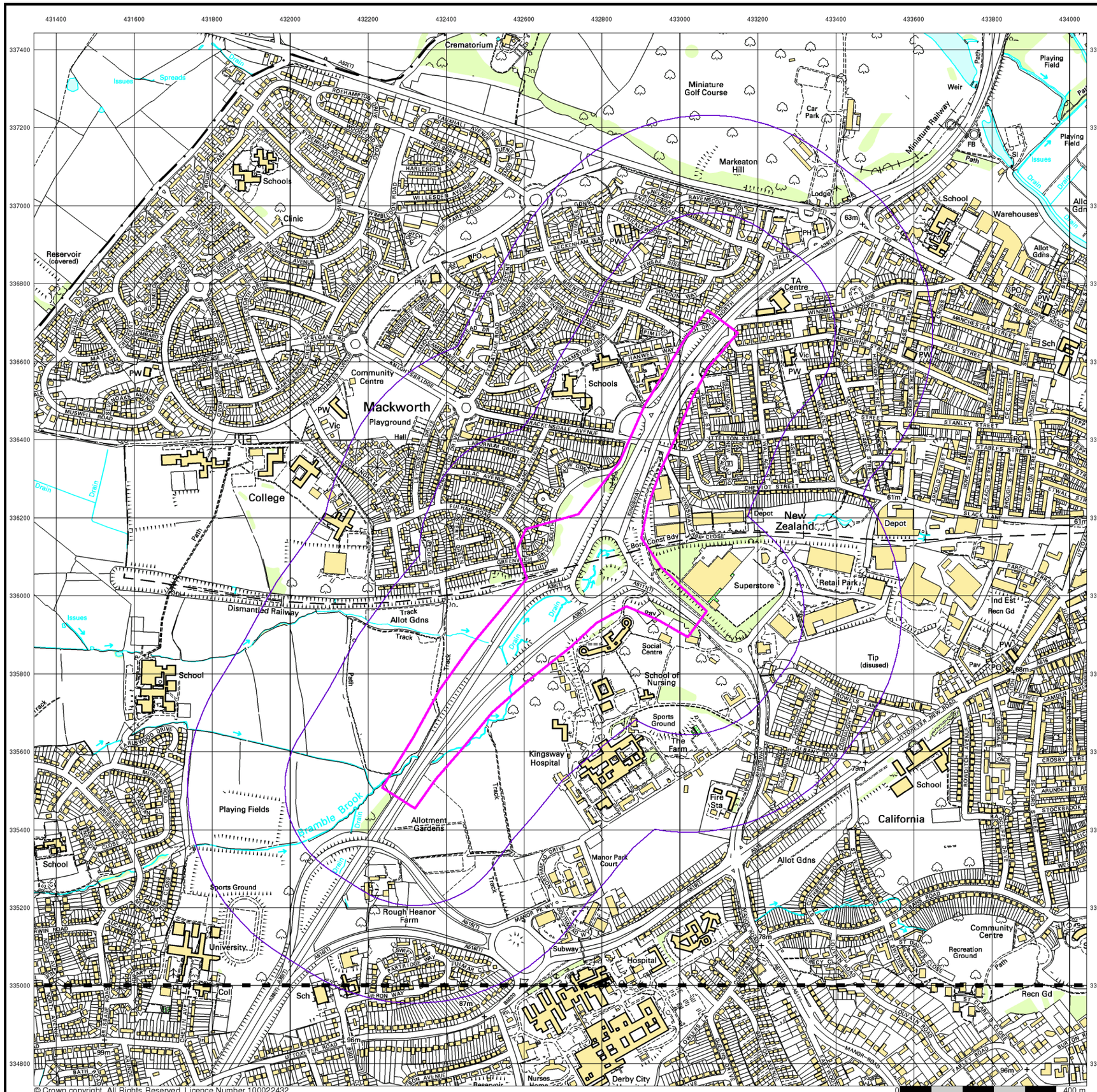
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

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10k Raster Mapping

Published 2000

Source map scale - 1:10,000

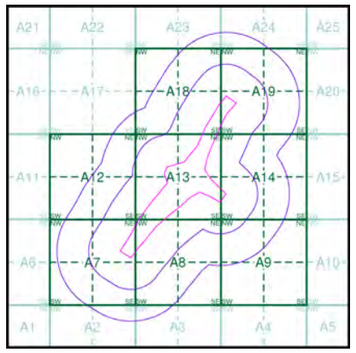
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SK33NW
2000
1:10,000

SK33SW
2000
1:10,000

Historical Map - Slice A



Order Details

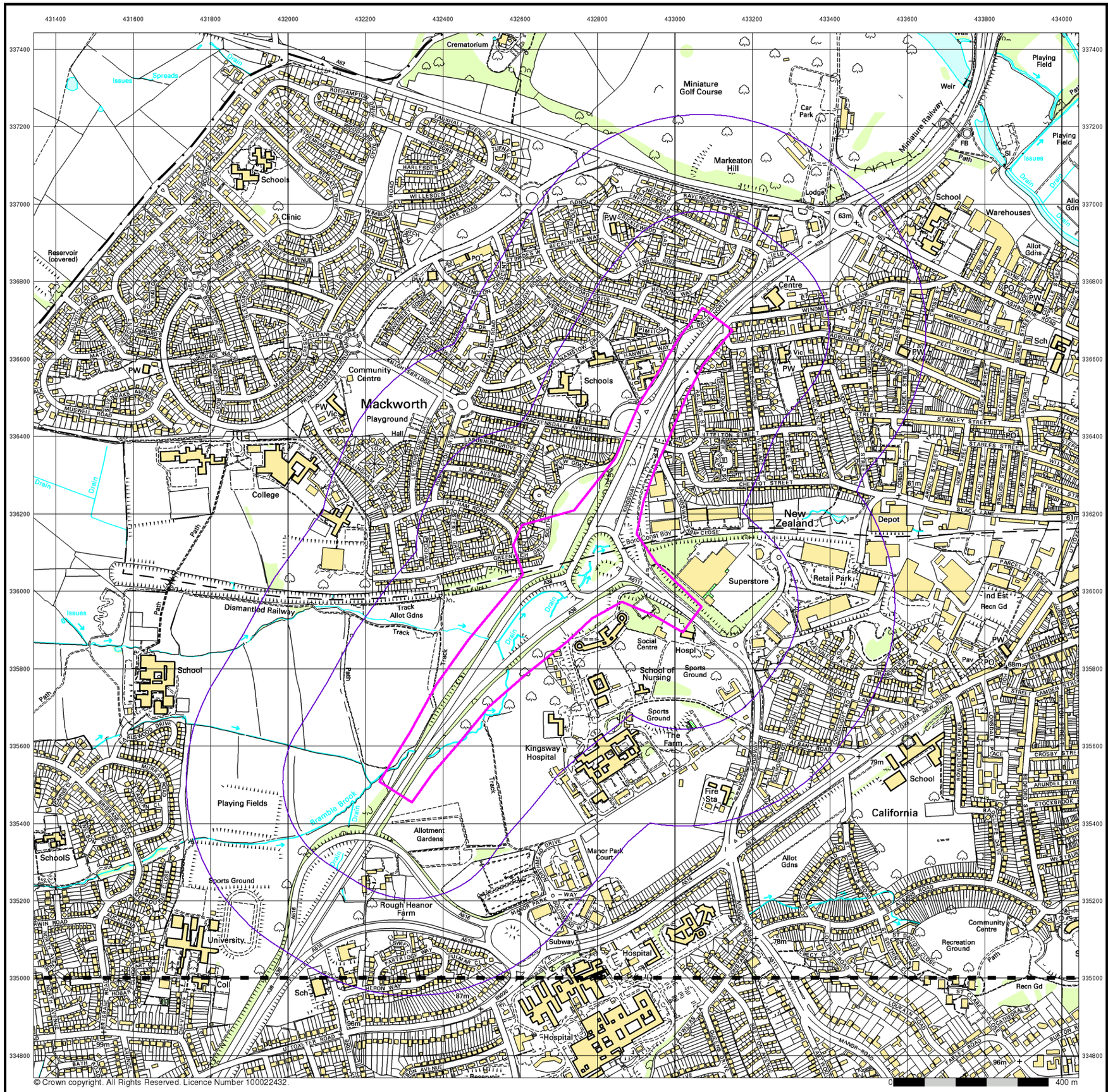
Order Number:	60387304_1_1
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National Grid Reference:	432740, 336060
Slice:	A
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Search Buffer (m):	500

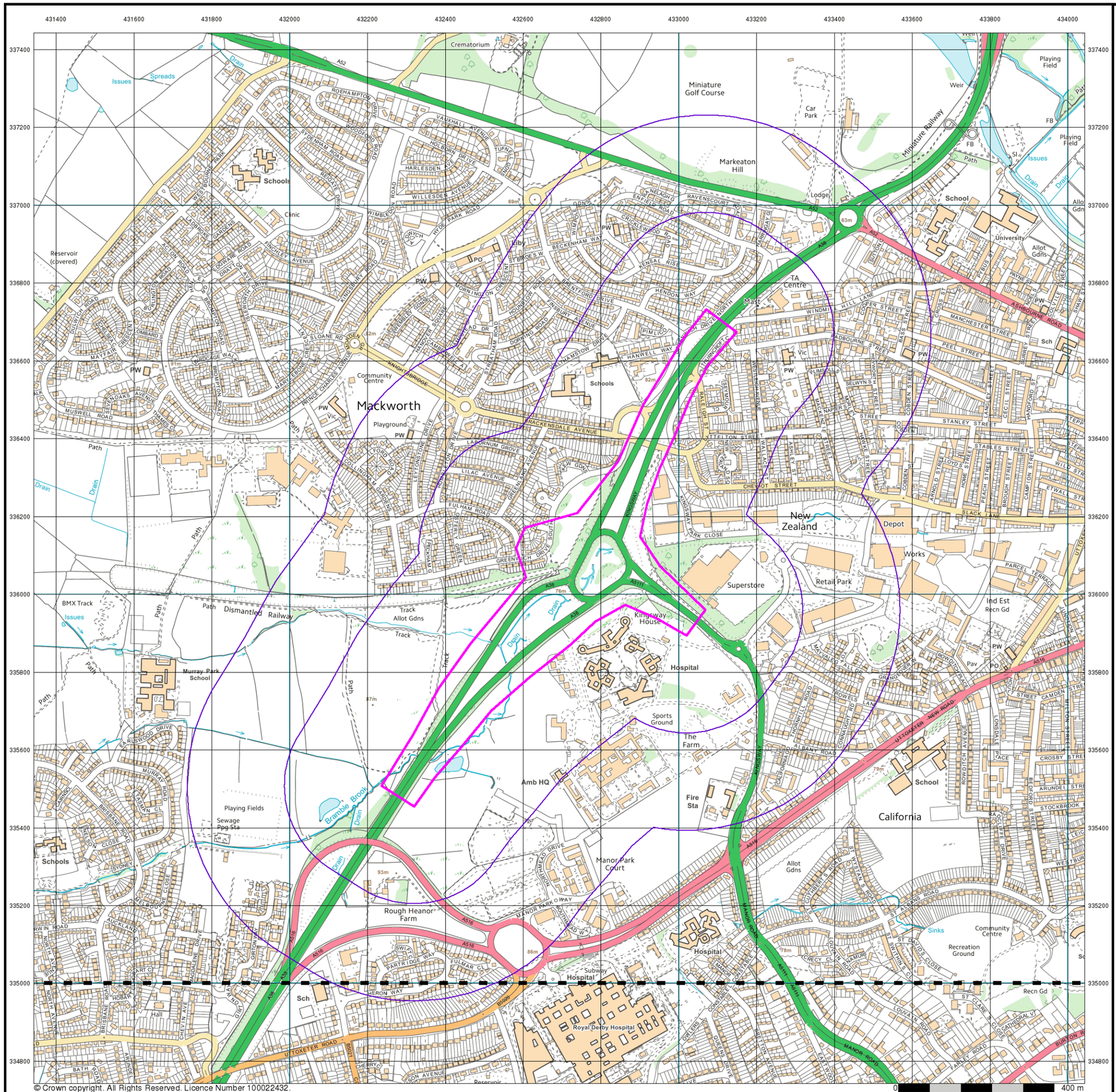
Site Details

Site at, Derby, City of Derby

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Crematorium
Miniature Golf Course
Car Park
Playing Field
Weir
Miniature Railway
Markeaton Hill
Lodge
School
Warehouses
Allot Gdns
Reservoir (covered)
Clinic
Schools
TA Centre
Community Centre
Mackworth
Playground
Hall
College
New Zealand
Depot
Superstore
Retail Park
Dismantled Railway
Track
Social Centre
Hospl
School of Nursing
Sports Ground
The Farm
Kingsway Hospital
Fire Sta
California
Playing Fields
Allotment Gardens
Manor Park Court
Rough Heanor Farm
Subway
Hospital
University
Community Centre
Recreation Ground
Recn Gd
Bramble Brook
Drain
Issues
Spreads
Path
Track
Pav
Sch
Vic
PW
PO
FB
Sl
63m
79m
68m
78m
87m
96m
99m
61m
A52
A38
A516
A5111
A61
A6
A608
A5250
A5111
ROTHERHAM ROAD
VAUXHALL AVENUE
HARLESDEN DRIVE
WILLESDEN AVENUE
HYDE PARK ROAD
RAVENSCOURT ROAD
WEMBLEY ROAD
BECKENHAM WAY
PENRHYN ROAD
MANCHESTER STREET
PEEL STREET
STANLEY STREET
CHEVIOT STREET
LABURNUM GROVE
LILAC AVENUE
FULHAM ROAD
GREENWICH DRIVE
ASHBOURNE ROAD
UTTOXETER NEW ROAD
OSMASTON ROAD
KINGSWAY
ARBORETUM ROAD
ABBAS ROAD
MANOR ROAD
STATION ROAD
LONDON ROAD
ST CHADS WAY
ST PETERS STREET
ST MARYS GATE
ST HELENS STREET
ST ALKMUND'S WAY
ST CUTHBERTS WAY
ST DUNSTANS CLOSE
ST CHRISTOPHERS DRIVE
ST ANDREWS ROAD
ST MICHAELS DRIVE
ST PETERS CHURCH DRIVE
ST ANTONY SERIDGE
ST LUKES ROAD
ST OSWALDS ROAD
ST PAULS ROAD
ST STEPHENS ROAD
ST THOMAS ROAD
ST WILFRIDS CRESCENT
ST WILFRIDS ROAD
ST WILFRIDS SQUARE
ST WILFRIDS WAY
ST WILFRIDS WAY
ST WILFRIDS WAY



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VectorMap Local

Published 2014

Source map scale - 1:10,000

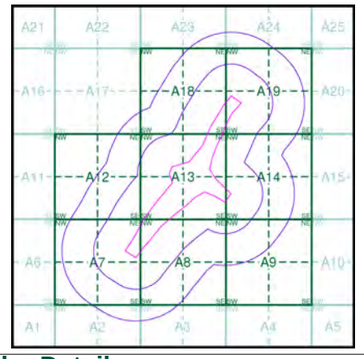
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SK33NW
2014
Variable

SK33SW
2014
Variable

Historical Map - Slice A



Order Details

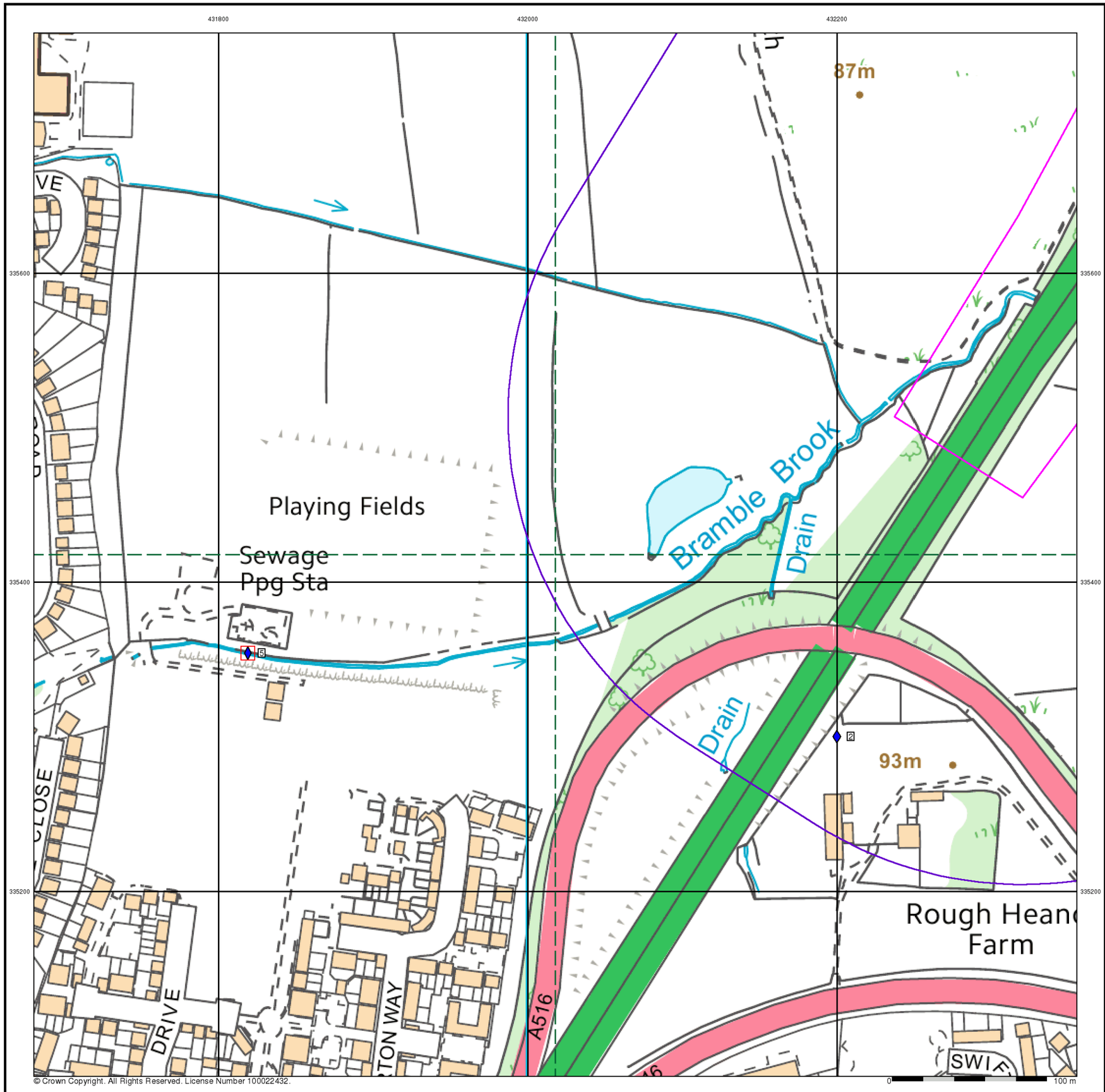
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

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General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

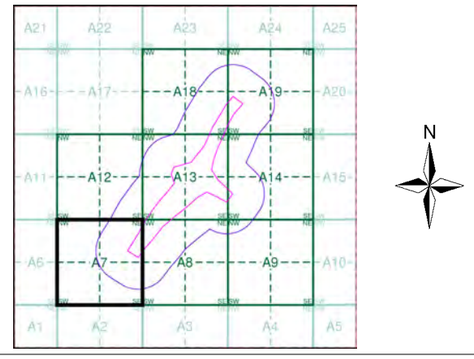
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A7



Order Details

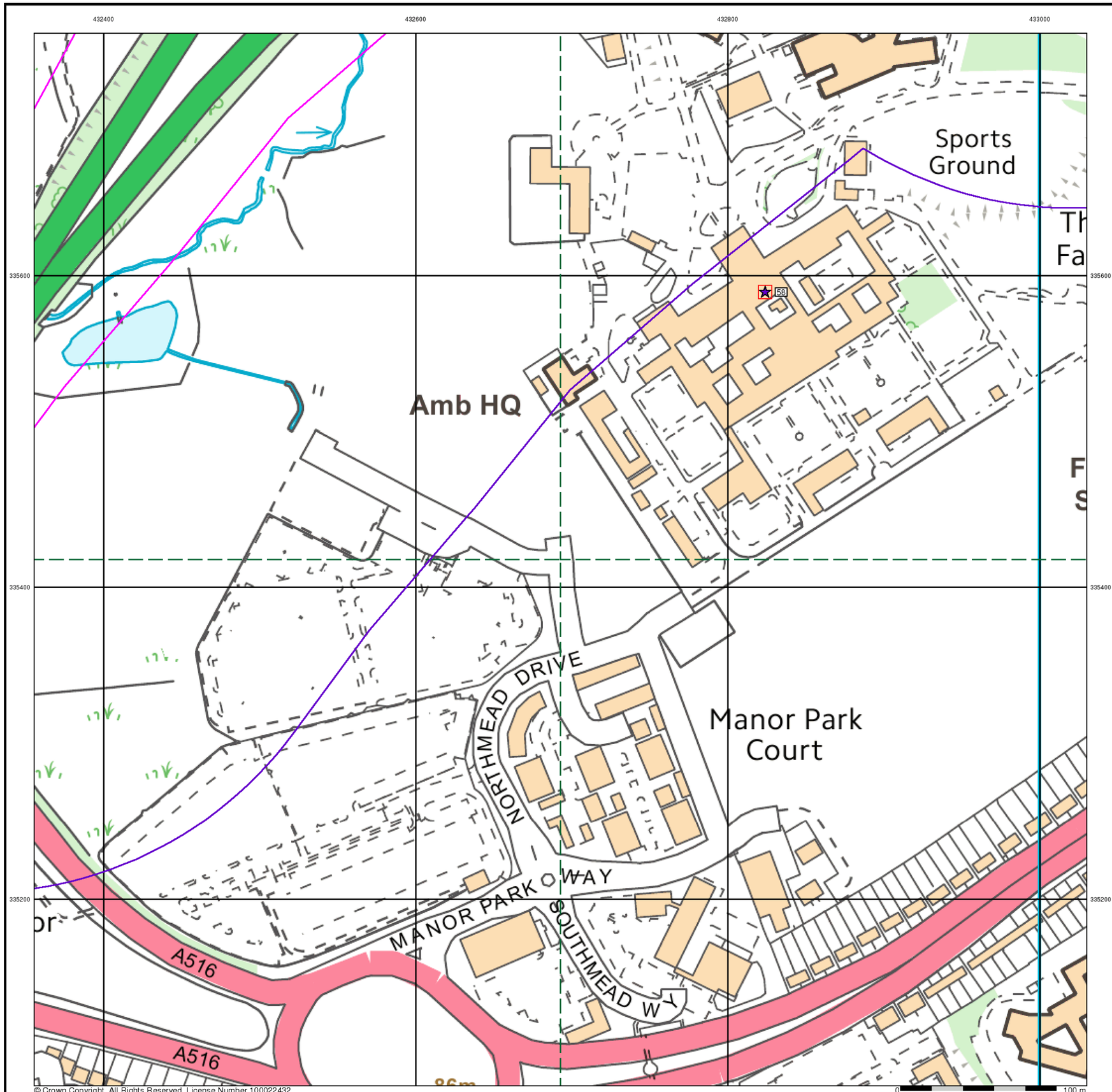
Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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Web: www.envirocheck.co.uk



Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

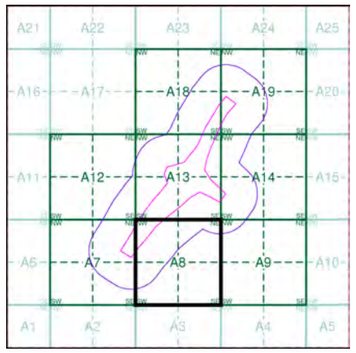
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A8



Order Details

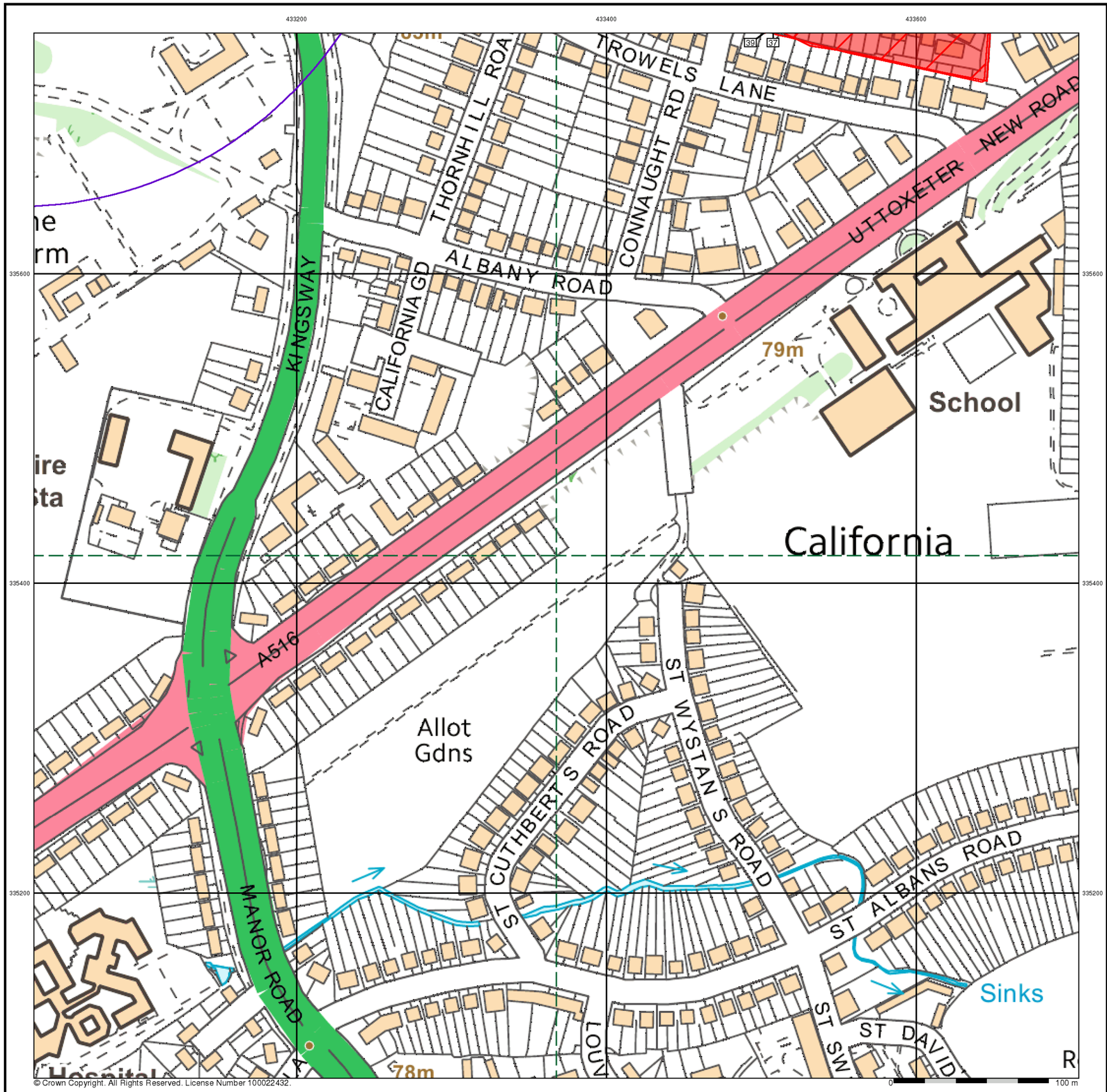
Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

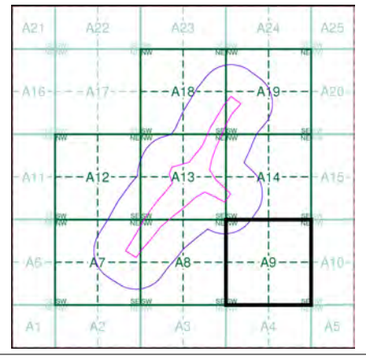
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A9



Order Details

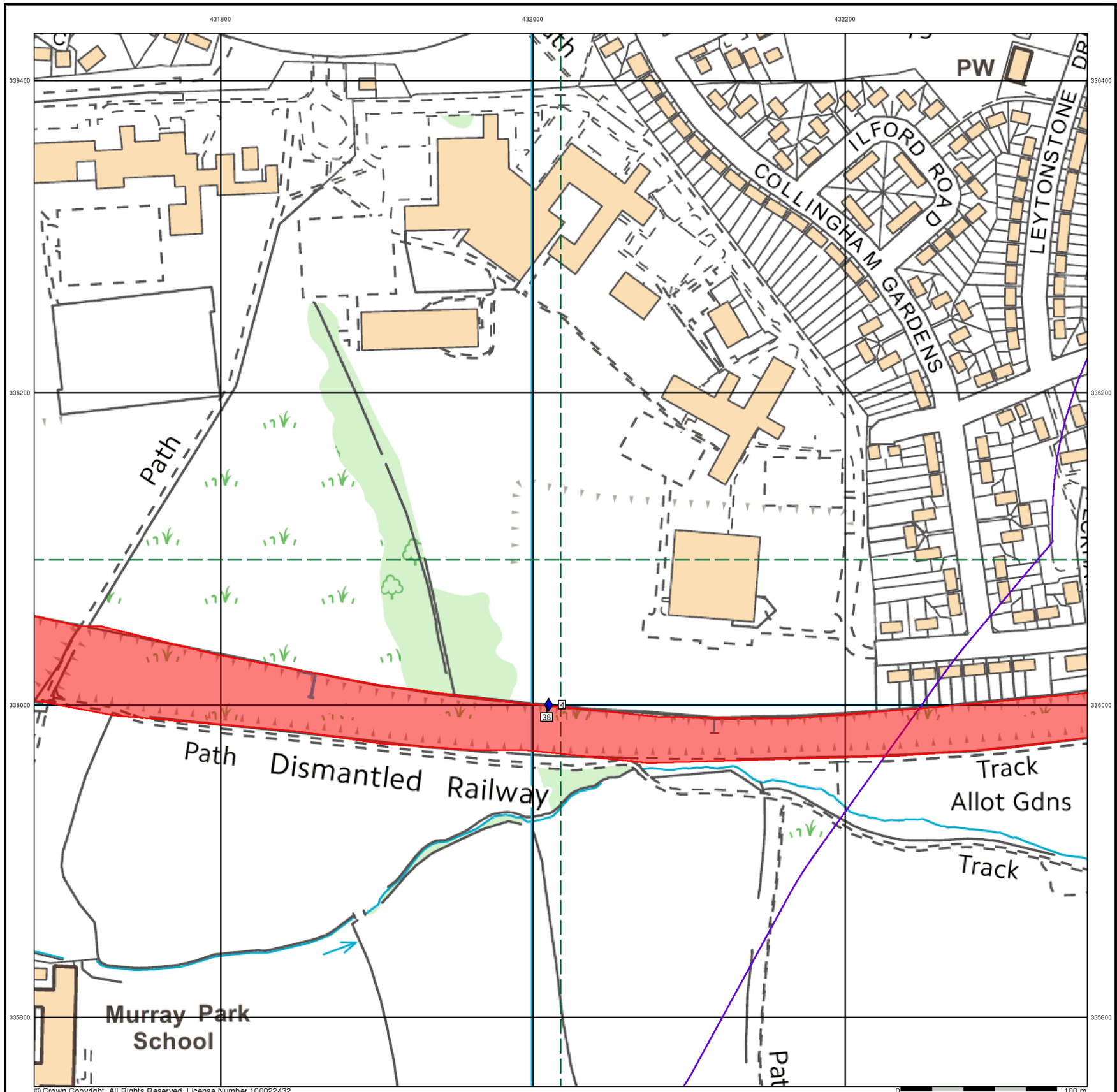
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66

Site Details

Site at, Derby, City of Derby

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

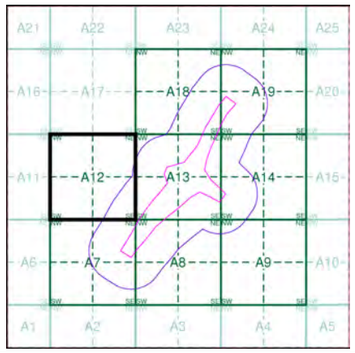
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A12



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66

Site Details

Site at, Derby, City of Derby

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Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

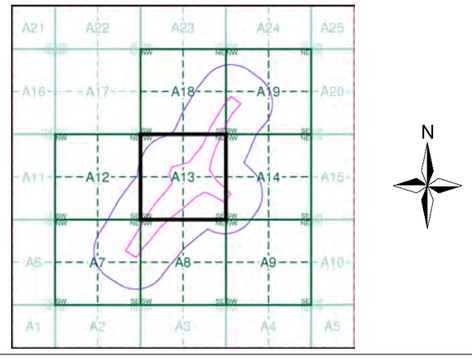
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A13



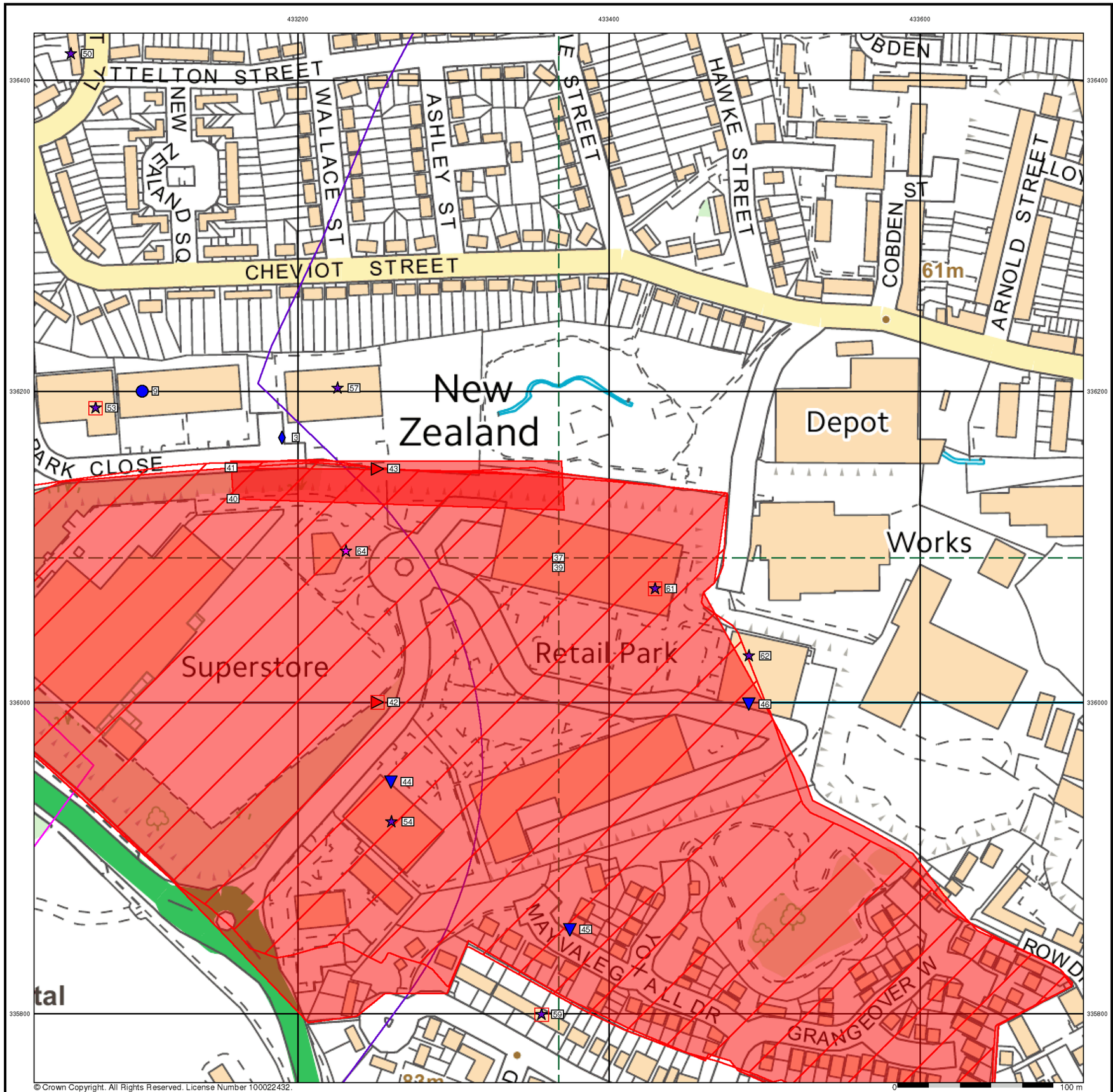
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66

Site Details

Site at, Derby, City of Derby

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Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

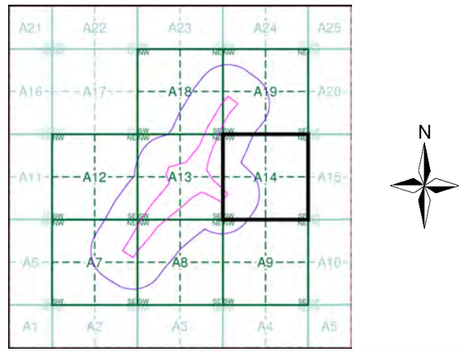
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A14



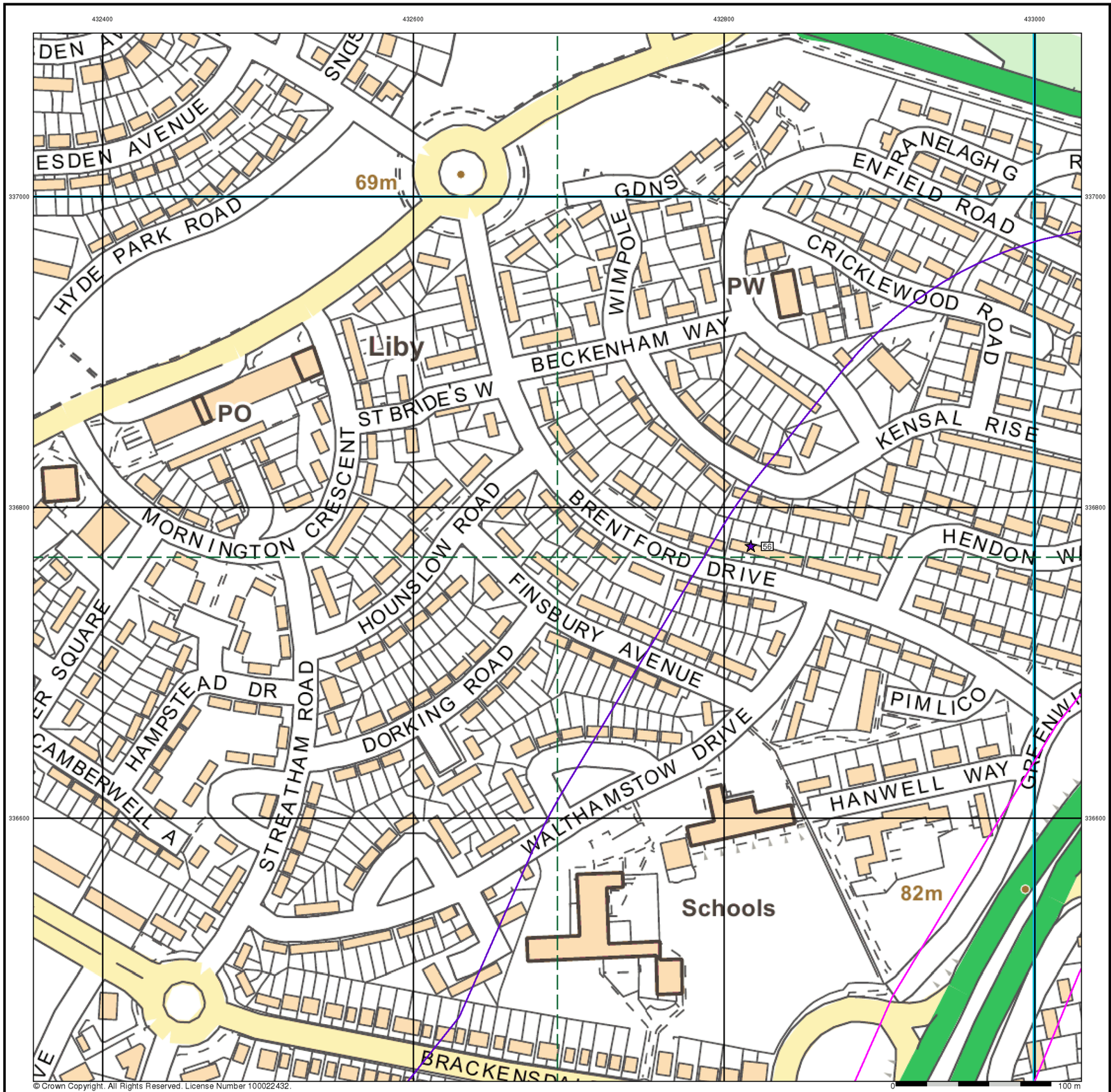
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66

Site Details

Site at, Derby, City of Derby

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General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID
Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

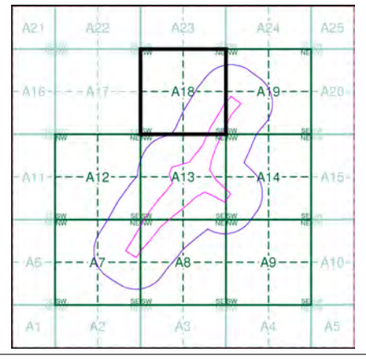
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A18



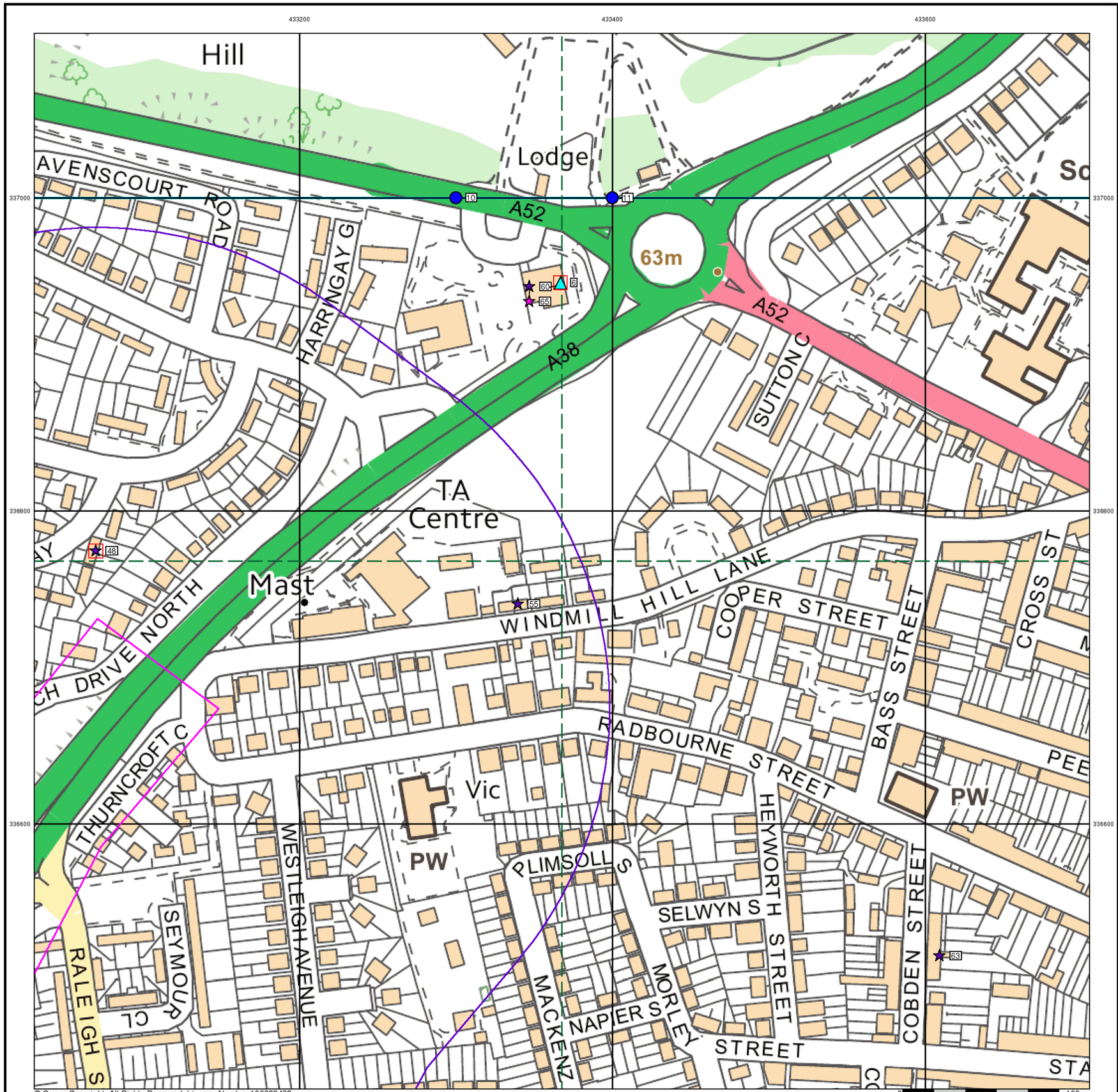
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66

Site Details

Site at, Derby, City of Derby

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
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- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
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- Local Authority Recorded Landfill Site
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- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

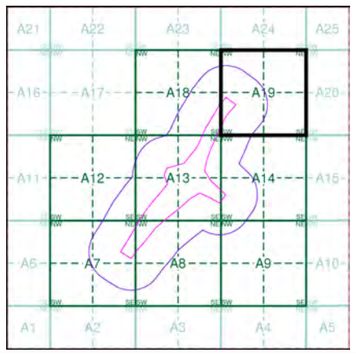
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A19



Order Details

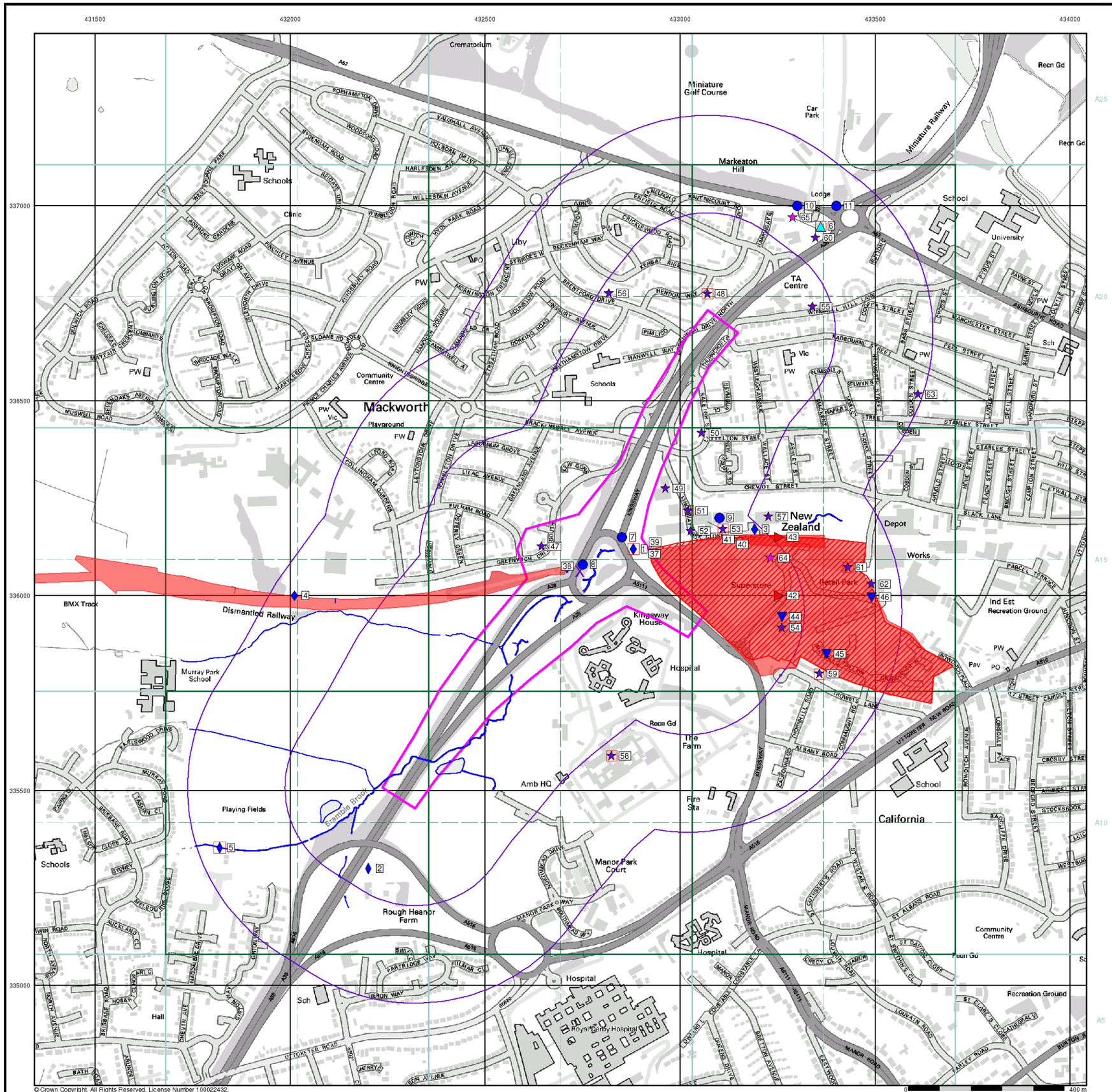
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66

Site Details

Site at, Derby, City of Derby

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
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- Enforcement or Prohibition Notice
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- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
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- Local Authority Pollution Prevention and Control Enforcement
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- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

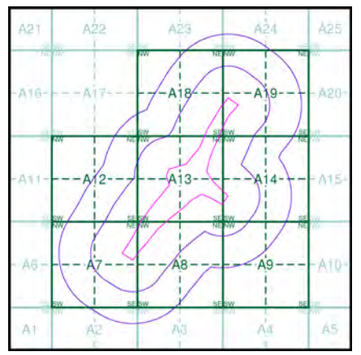
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
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- Local Authority Recorded Landfill Site
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- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice A



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

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Web: www.envirocheck.co.uk





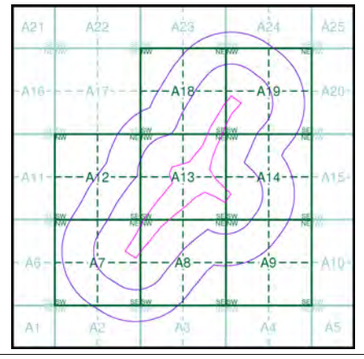
General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



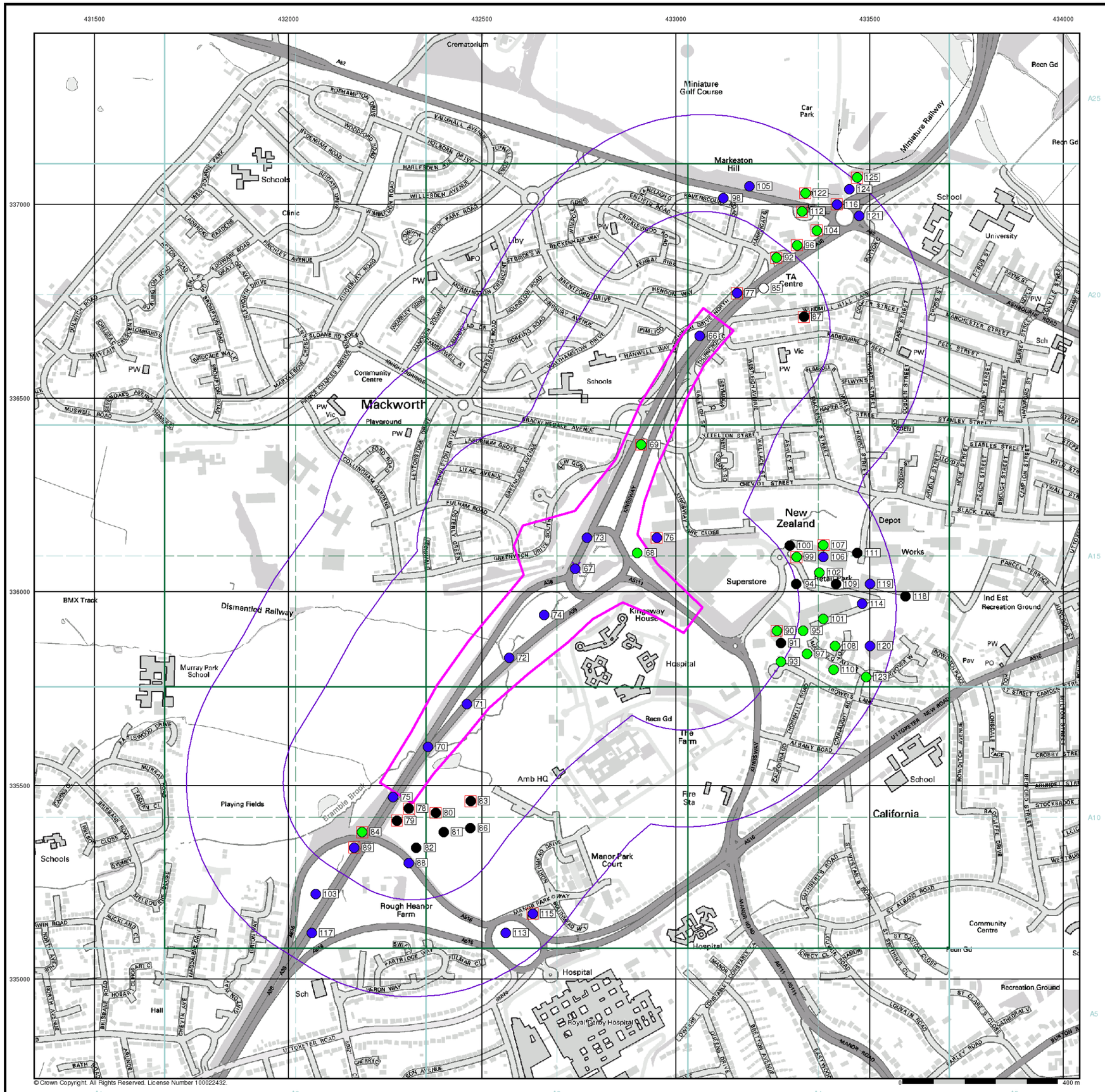
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

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- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

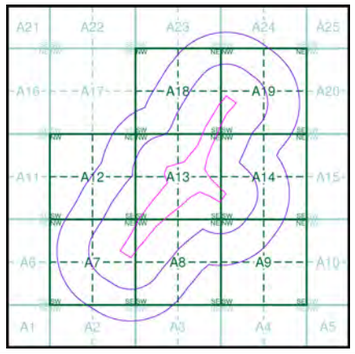
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

Detailed River Network Data

- Primary River
- Secondary River
- Tertiary River
- Canal
- Canal Tunnel
- Undefined River
- Lake/Reservoir
- Offline Drainage Feature
- Extended Culvert (greater than 50m)
- Underground River (inferred)
- Underground River (local knowledge)
- Downstream of High Water Mark
- Downstream of Seaward Extension
- Not assigned River feature

Contours (height in metres)

Standard Contour 105 100 95

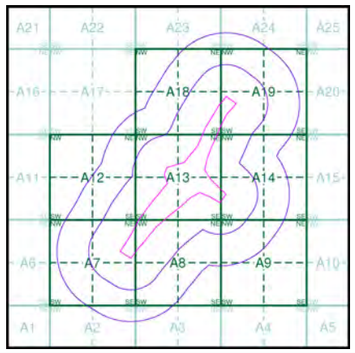
Master Contour

Spot Height *167.3

MLW Mean Low Water

MHW Mean High Water

EA/NRW Detailed River Network Map - Slice A



Order Details

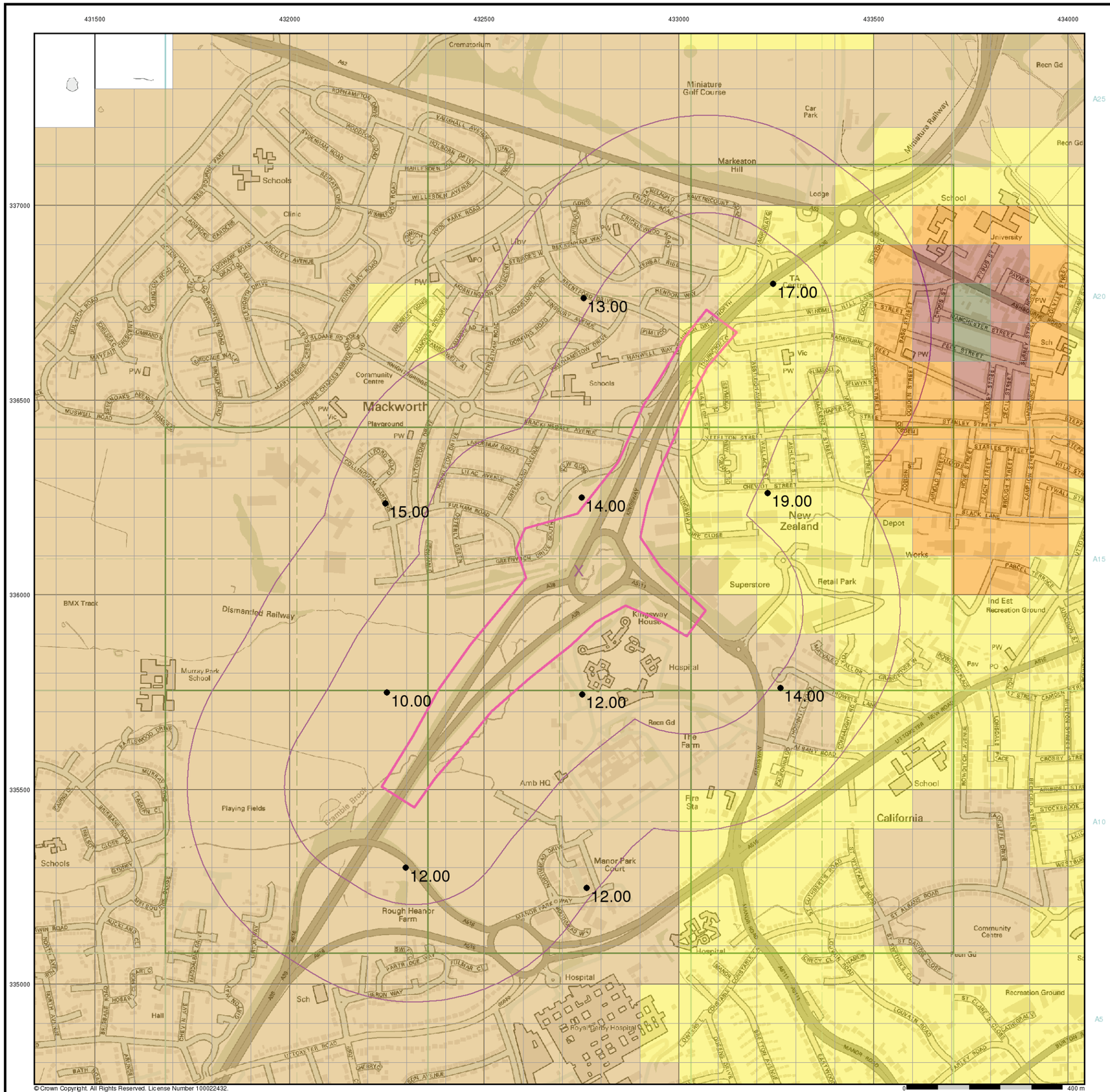
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

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General

Specified Site | Specified Buffer(s) | X Bearing Reference Point

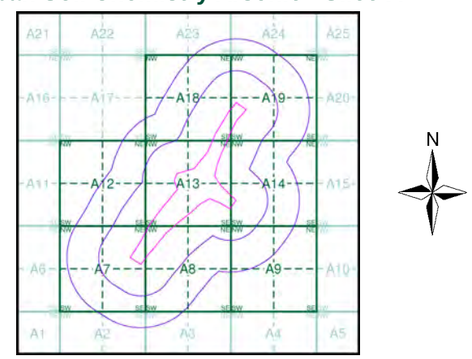
Urban Soil Chemistry Arsenic

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Arsenic Concentrations mg/kg

< 15
15 - 25
25 - 35
35 - 45
45 - 60
60 - 120
> 120

Urban Soil Chemistry Arsenic - Slice A



Order Details

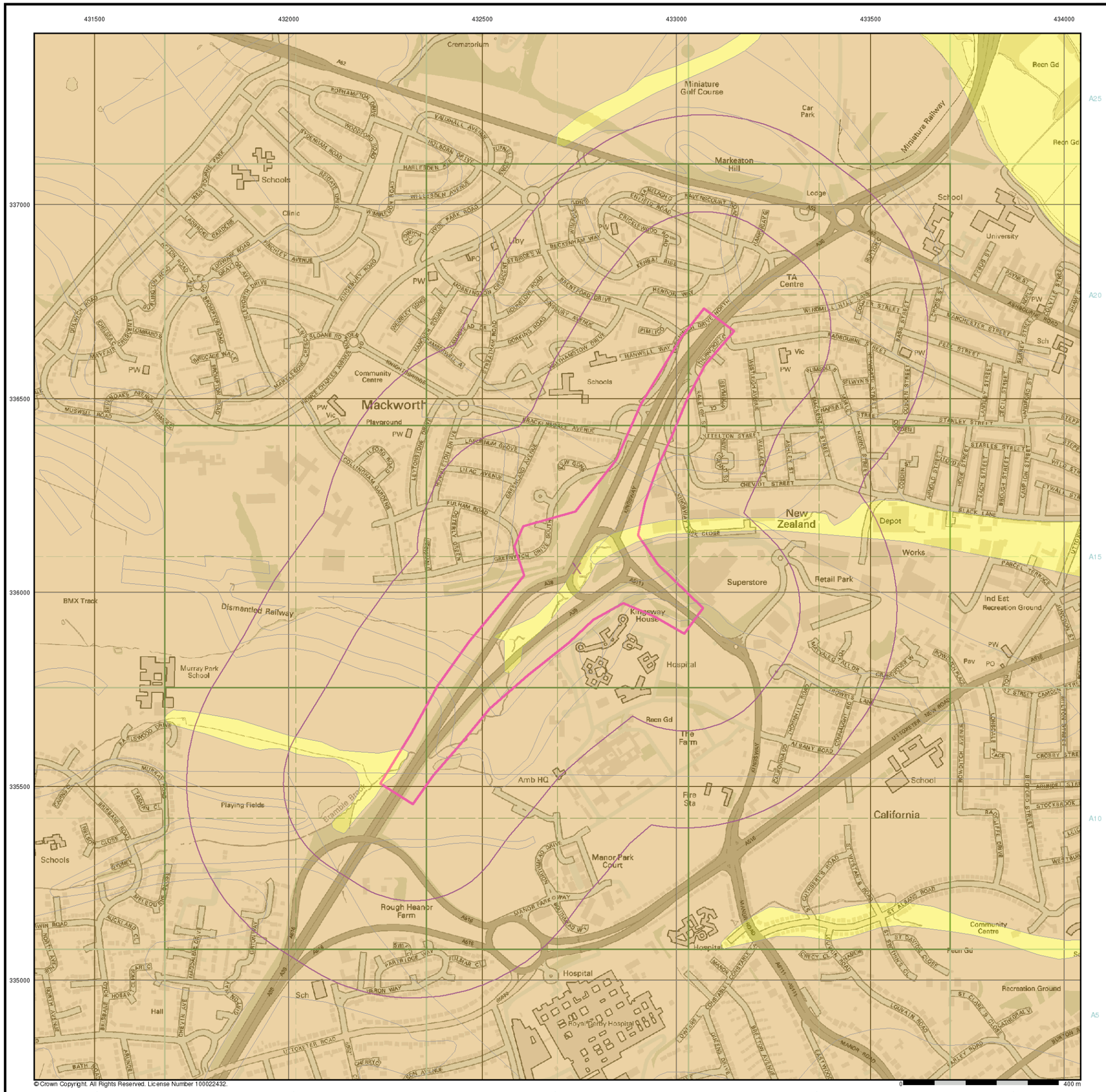
Order Details:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search buffer (m):	500

Site Details

Site at, Derby, City of Derby

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General

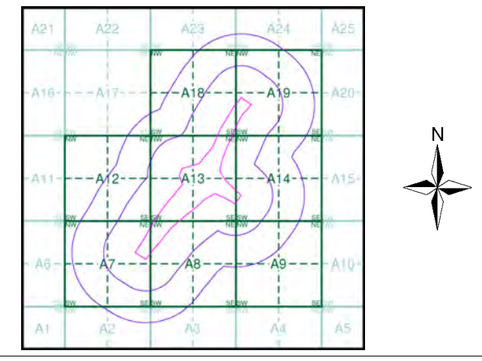
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search buffer (m):	500

Site Details

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Web: www.envirocheck.co.uk



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General

Specified Site | Specified Buffer(s) | Bearing Reference Point

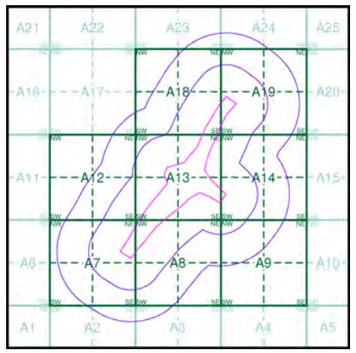
Urban Soil Chemistry Cadmium

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Cadmium Concentrations mg/kg

< 1.8
1.8 - 2.2
2.2 - 3.0
> 3.0

Urban Soil Chemistry Cadmium - Slice A



Order Details

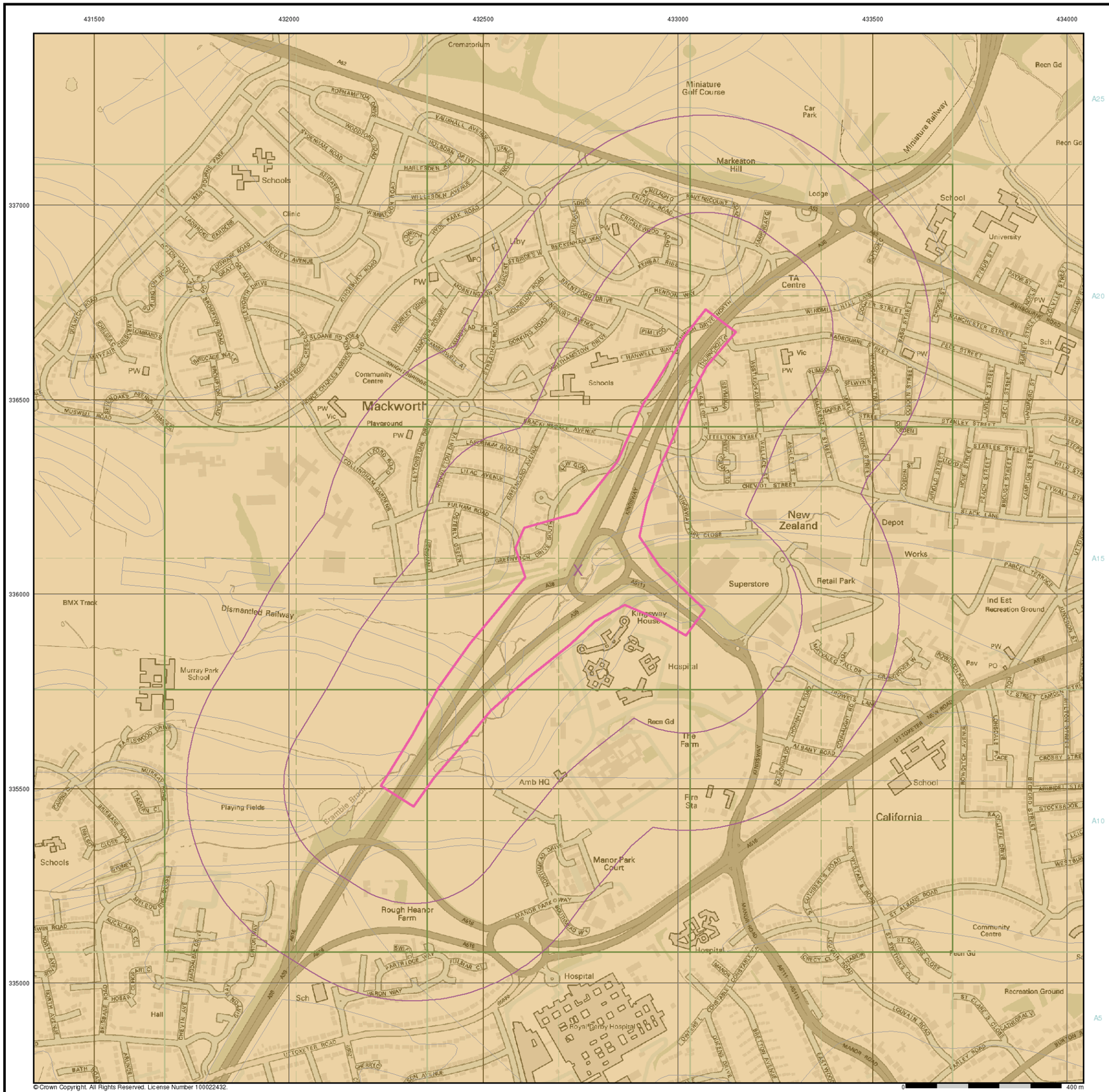
Order Details:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search buffer (m):	500

Site Details

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Landmark Information Group

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General

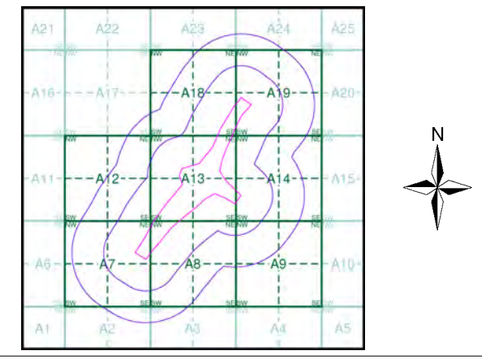
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



Order Details

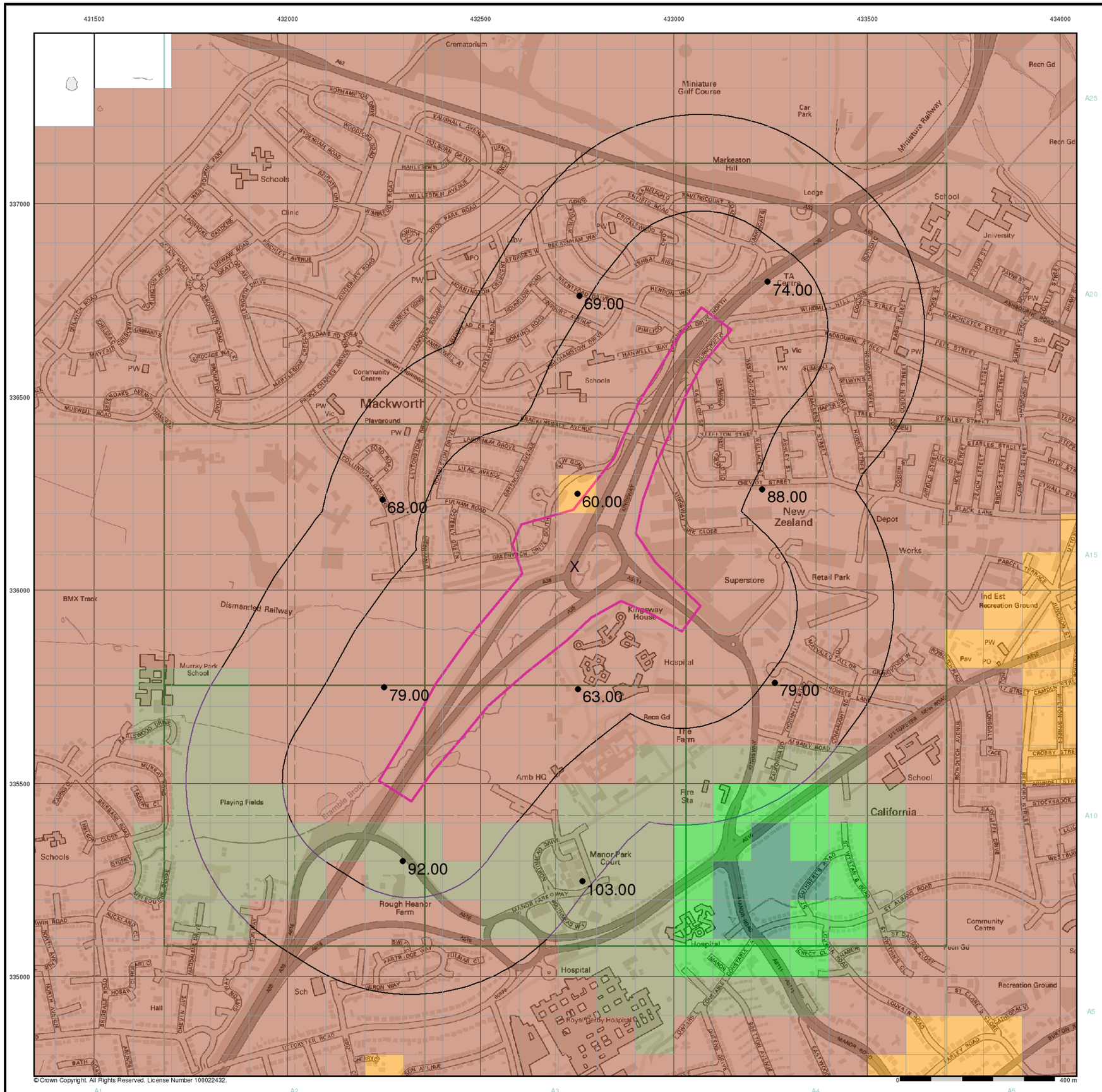
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search buffer (m):	500

Site Details

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General

Specified Site | Specified Buffer(s) | X Bearing Reference Point

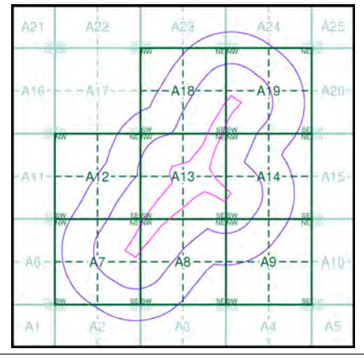
Urban Soil Chemistry Chromium

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Urban Soil Chemistry Chromium - Slice A



Order Details

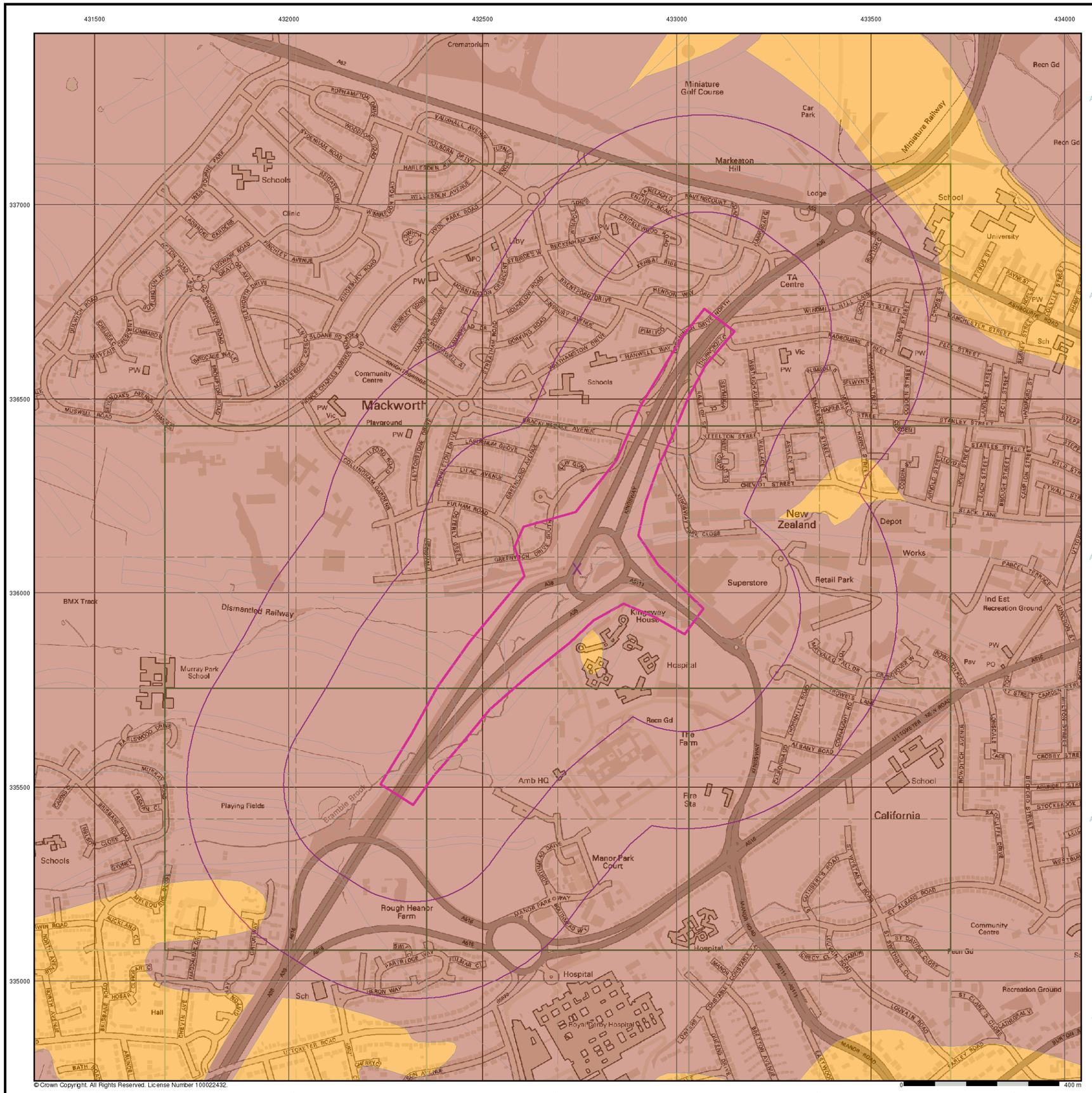
Order Details:	60387304_1_1
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National Grid Reference:	432740, 336060
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Site Area (Ha):	24.66
Search buffer (m):	500

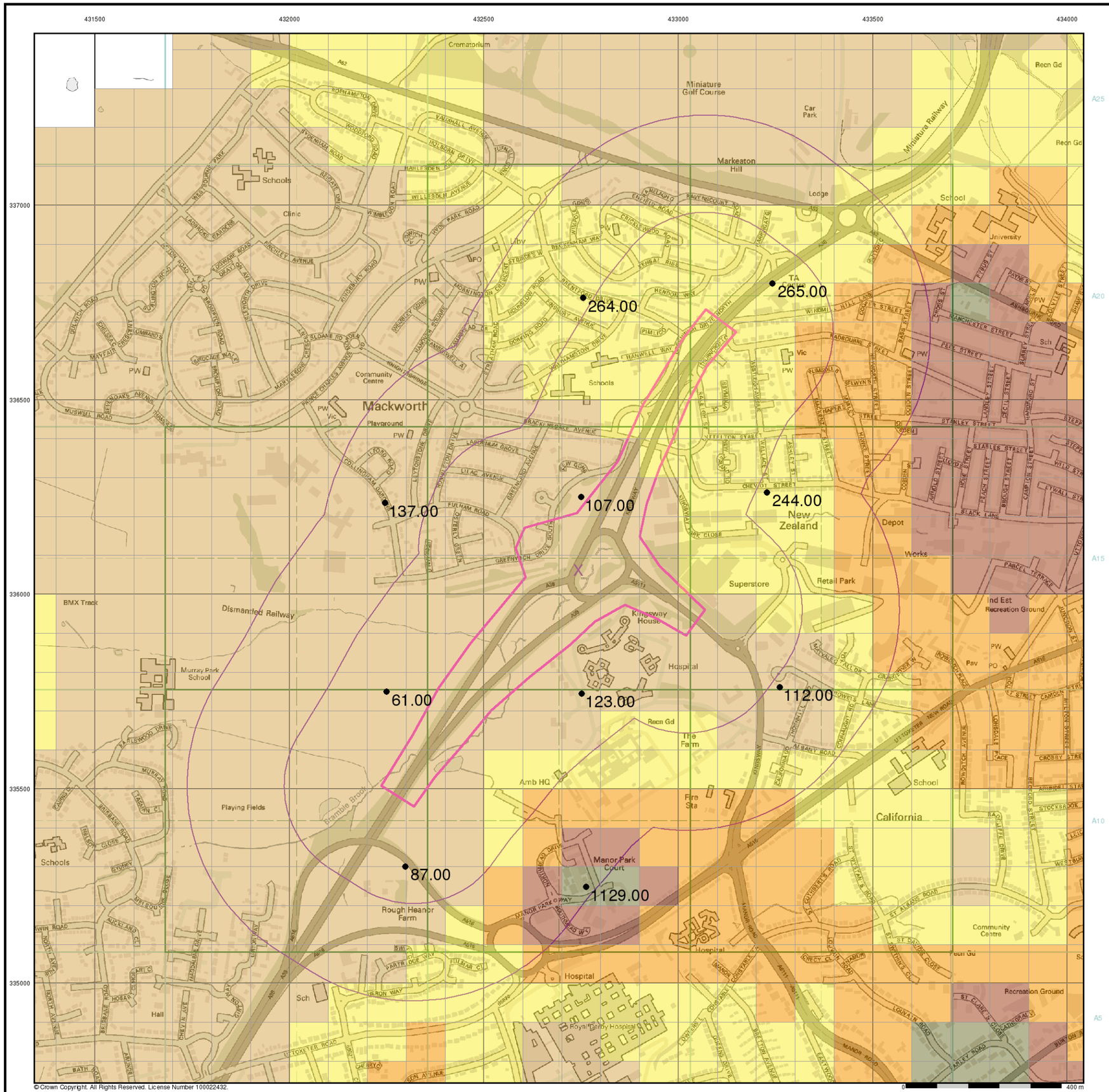
Site Details

Site at, Derby, City of Derby

Landmark Information Group

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Web: www.envirocheck.co.uk


431500
432000
432500
433000
433500
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336500
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A25
A20
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A10
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A4
A5
Crematorium
Recn Gd
Miniature Golf Course
Car Park
Miniature Railway
Markeaton Hill
Lodge
School
University
Schools
Clinic
Liby
PO
PW
TA Centre
Community Centre
Mackworth
Playground
Vic
Schools
New Zealand
Depot
Works
Superstore
Retail Park
Ind Est
Recreation Ground
BMX Track
Dismantled Railway
Kingsway House
Hospital
Murray Park School
Recn Gd
The Farm
Amb HQ
Fire Sta
Playing Fields
Schools
California
Manor Park Court
Rough Heanor Farm
Community Centre
Hospital
Royal Derby Hospital
Recreation Ground
Hall
Sch
Pav
PO
Sch
Sch
Ashbourne Roads
Ashbourne Road
Kingsway
Manor Road
Uttoxeter Road
Stanley Street
Chevidot Street
Wellington Street
Victoria Street
Radbourne Street
Fess Street
Manchester Street
Withdill Hill Drive
Thurvaston Drive
Hollybrook Drive
Brackensage Avenue
Lilac Avenue
Fulham Road
Grethyn Drive South
Grethyn Drive
Lyttelton Street
Wallace St
Ashley St
Hawke Street
Peace Street
Stables Street
Black Lane
Parcel Terrace
Albany Road
Cromwell Rd
Hornhill Road
Rowditch Avenue
Longdale Face
Crosby Street
Bedford Street
Stockbrook
Chaffe Drive
St Albans Road
St Davids Close
St Clare's Grove
Queens Drive
Bretton Avenue
Eastwood Park Close
Louvain Road
Parkway
Ashbourne Road
Ashbourne Roads
Kingsway
Manor Road
Uttoxeter Road
Stanley Street
Chevidot Street
Wellington Street
Victoria Street
Radbourne Street
Fess Street
Manchester Street
Withdill Hill Drive
Thurvaston Drive
Hollybrook Drive
Brackensage Avenue
Lilac Avenue
Fulham Road
Grethyn Drive South
Grethyn Drive
Lyttelton Street
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Ashley St
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Peace Street
Stables Street
Black Lane
Parcel Terrace
Albany Road
Cromwell Rd
Hornhill Road
Rowditch Avenue
Longdale Face
Crosby Street
Bedford Street
Stockbrook
Chaffe Drive
St Albans Road
St Davids Close
St Clare's Grove
Queens Drive
Bretton Avenue
Eastwood Park Close
Louvain Road
Parkway
Grange Mill Lane
Ravencourt Road
Kerbar Rise
Beckenham Way



General

Specified Site | Specified Buffer(s) | X Bearing Reference Point

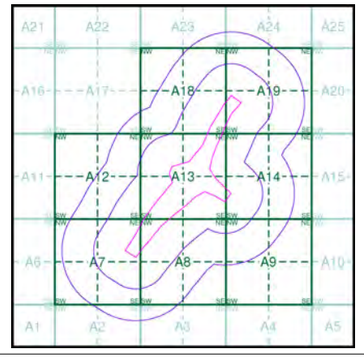
Urban Soil Chemistry Lead

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Lead Concentrations mg/kg

< 150
150 - 300
300 - 600
600 - 900
> 900

Urban Soil Chemistry Lead - Slice A



Order Details

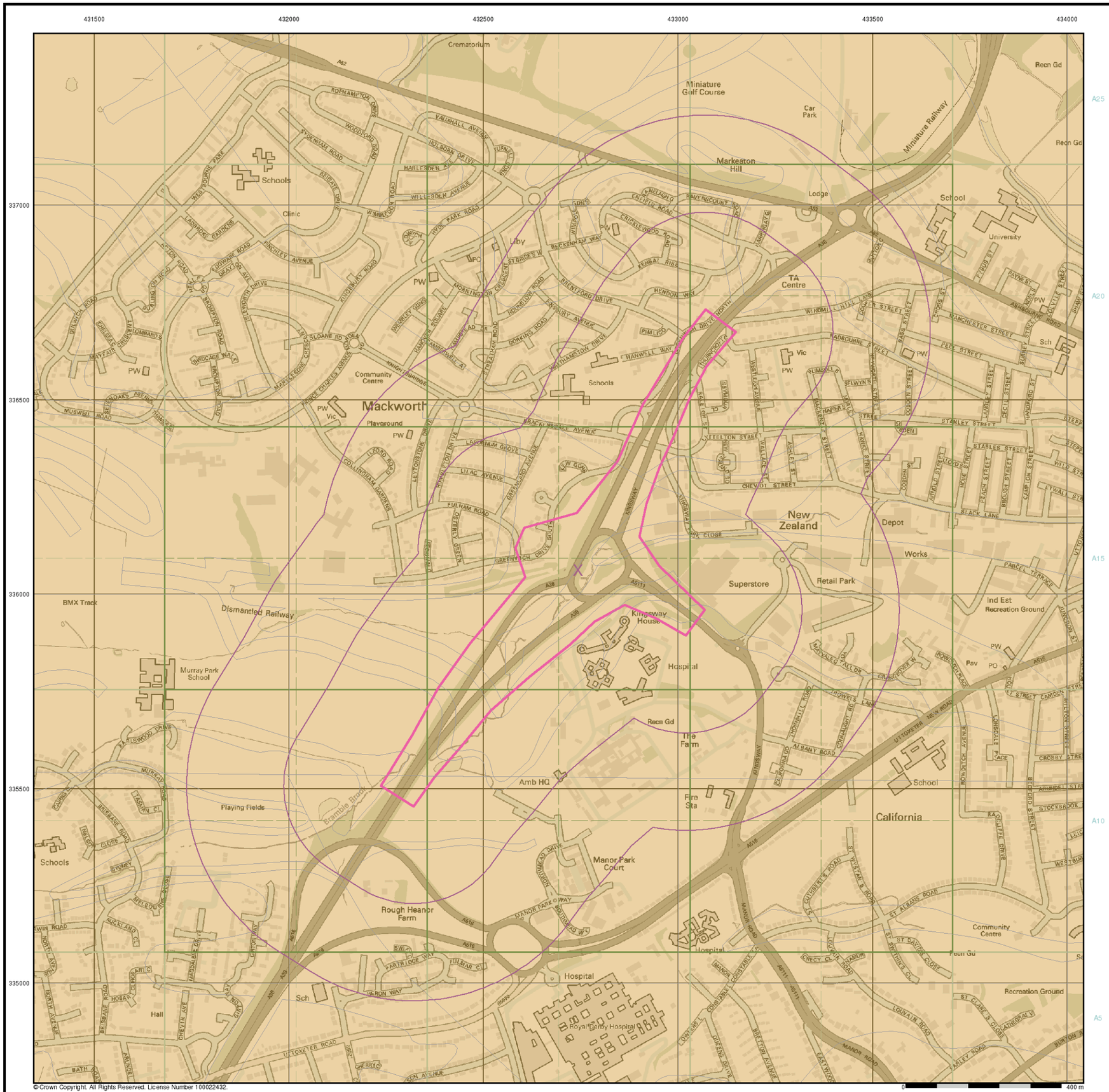
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



General

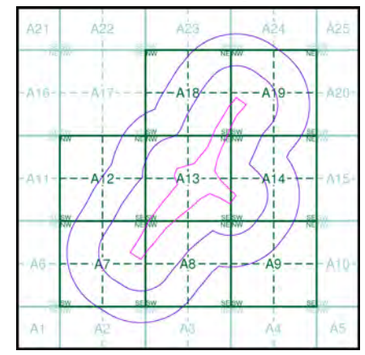
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Estimated Soil Chemistry Lead - Slice A



Order Details

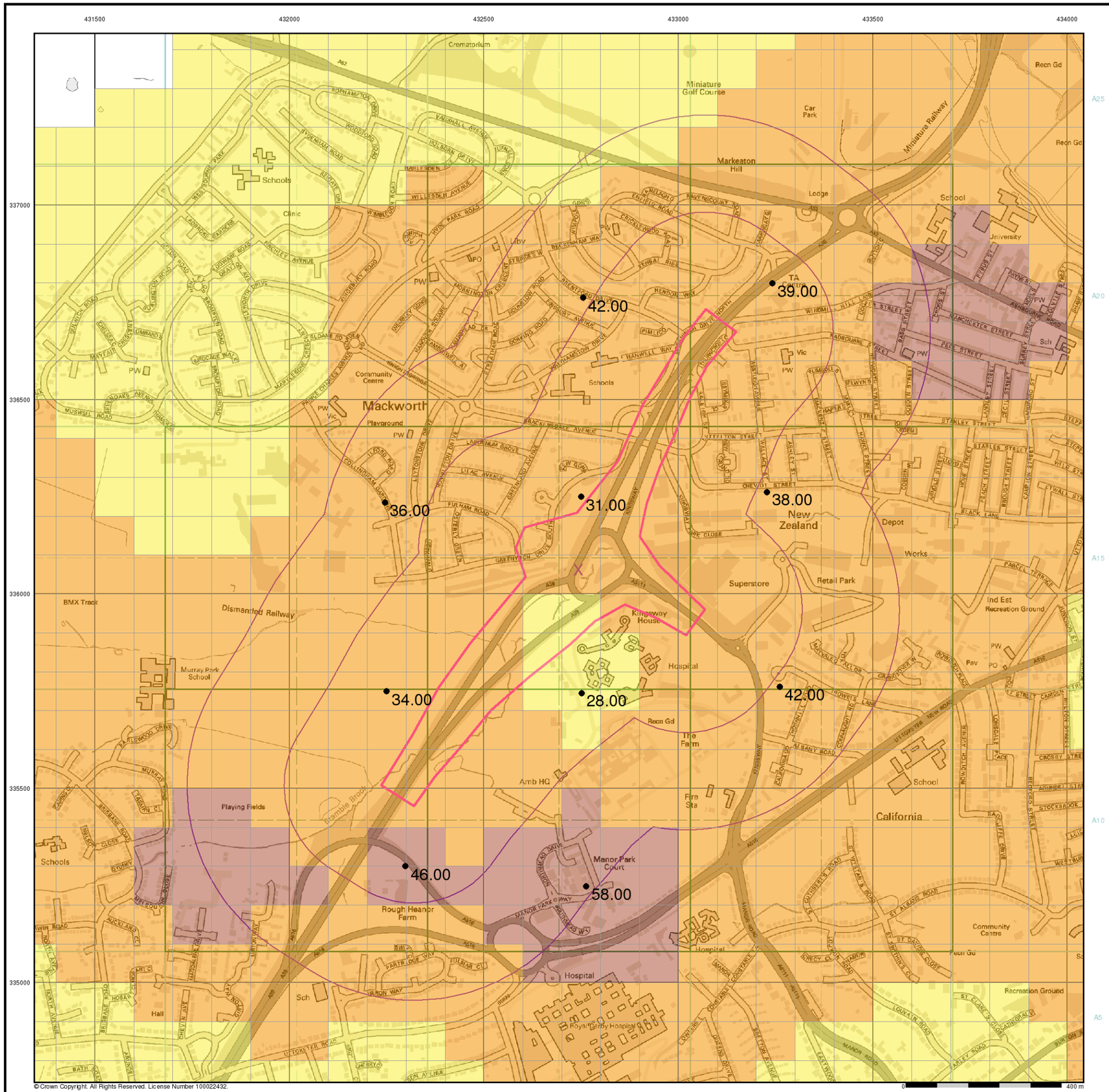
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General

Specified Site | Specified Buffer(s) | X Bearing Reference Point

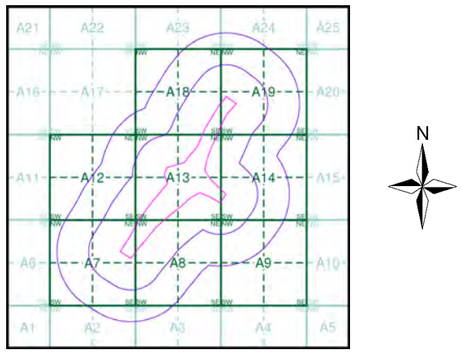
Urban Soil Chemistry Nickel

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Urban Soil Chemistry Nickel - Slice A



Order Details

Order Details:	60387304_1_1
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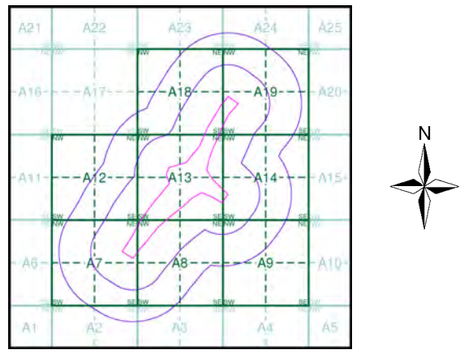
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details:	60387304_1_1
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Site Details

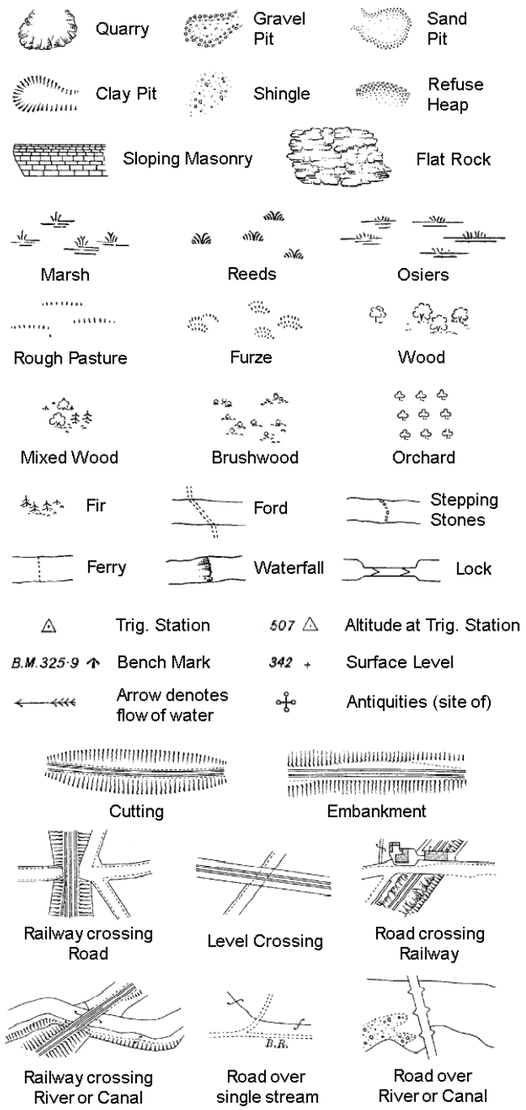
Site at, Derby, City of Derby

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Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)

County & Civil Parish Boundary

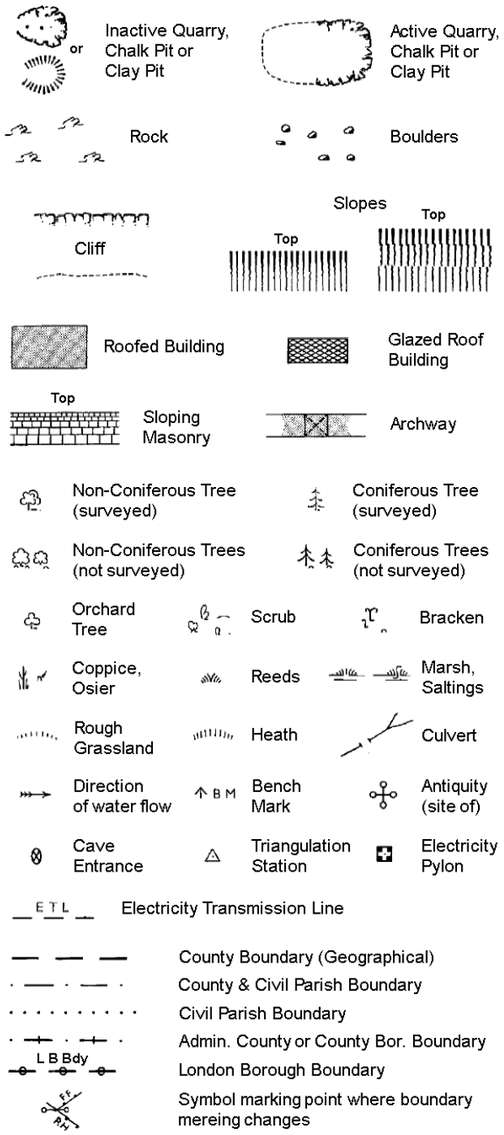
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

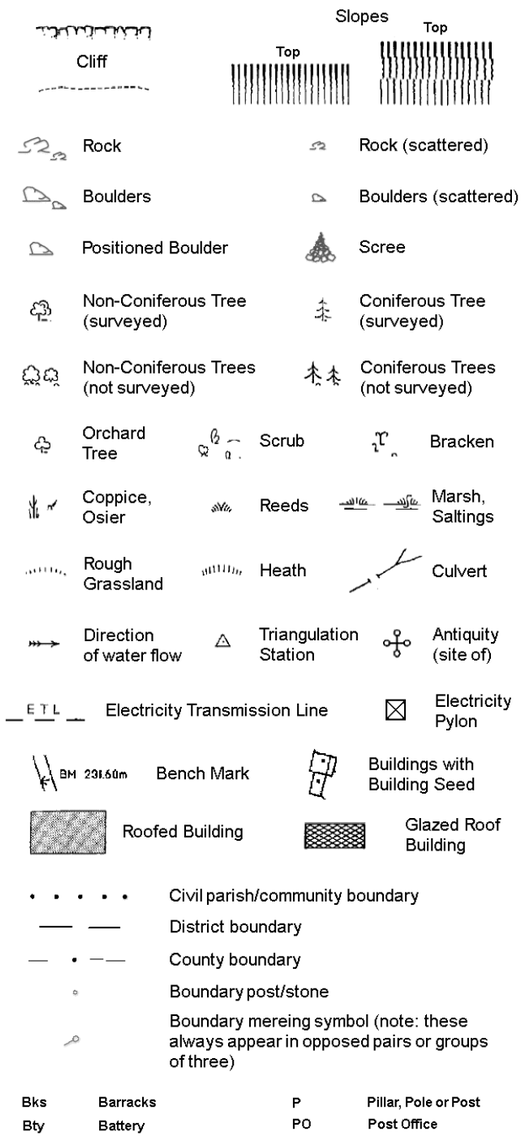
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

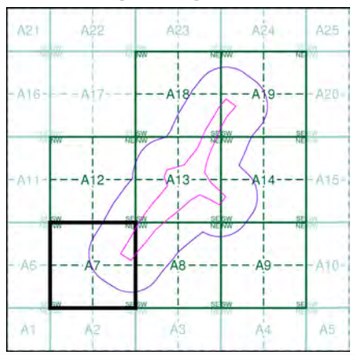
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1882 - 1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1914	4
Derbyshire	1:2,500	1938	5
Ordnance Survey Plan	1:1,250	1966	6
Ordnance Survey Plan	1:2,500	1968	7
Ordnance Survey Plan	1:1,250	1973 - 1976	8
Additional SIMs	1:1,250	1989 - 1991	9
Large-Scale National Grid Data	1:1,250	1993	10

Historical Map - Segment A7



Order Details

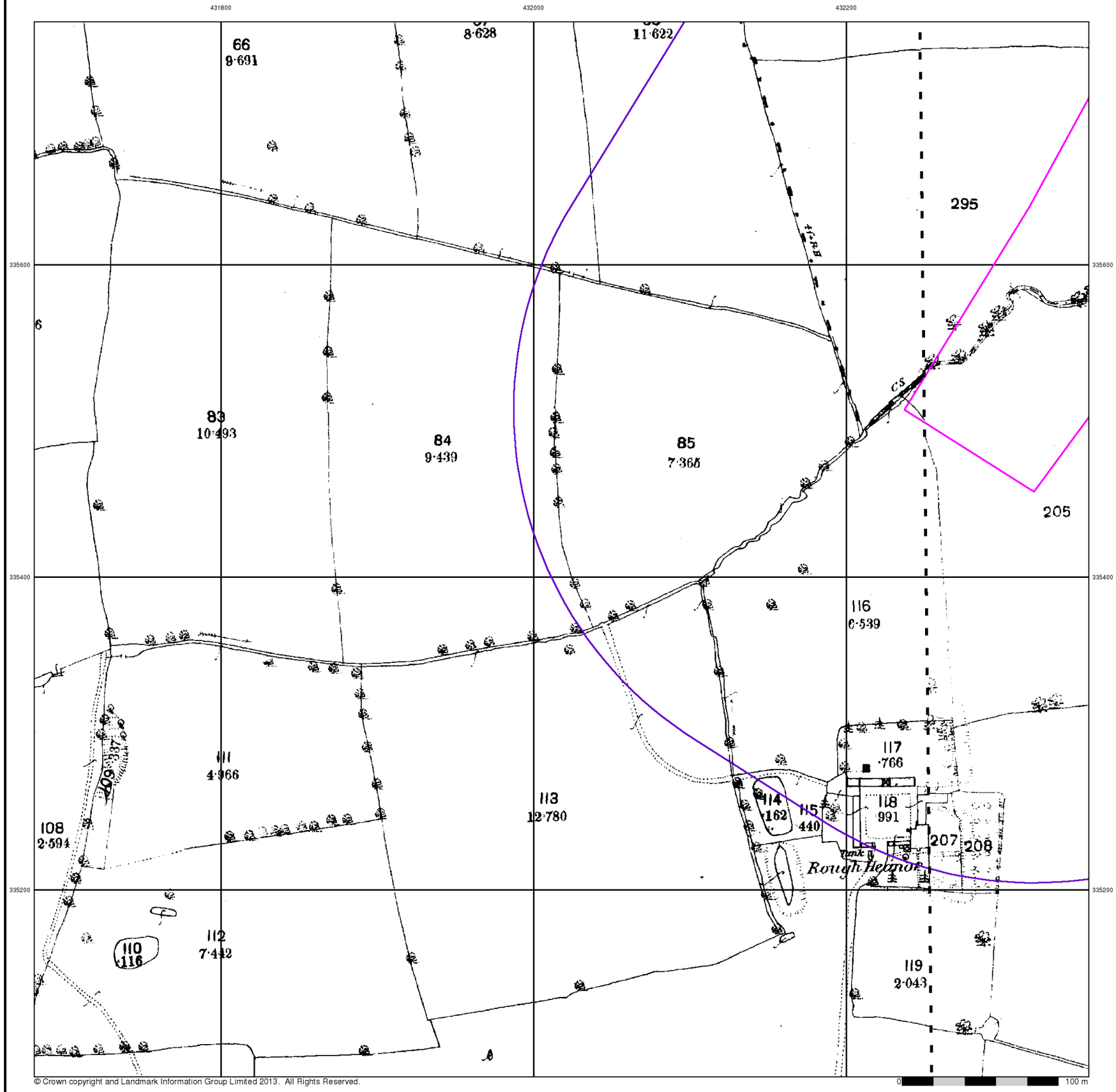
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Customer Ref: 47071637.208APS
National Grid Reference: 432740, 336060
Slice: A
Site Area (Ha): 24.66
Search Buffer (m): 250

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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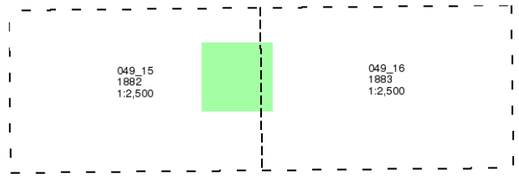
Derbyshire

Published 1882 - 1883

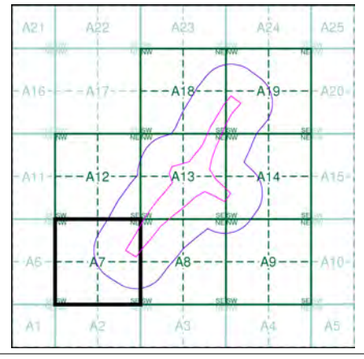
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A7



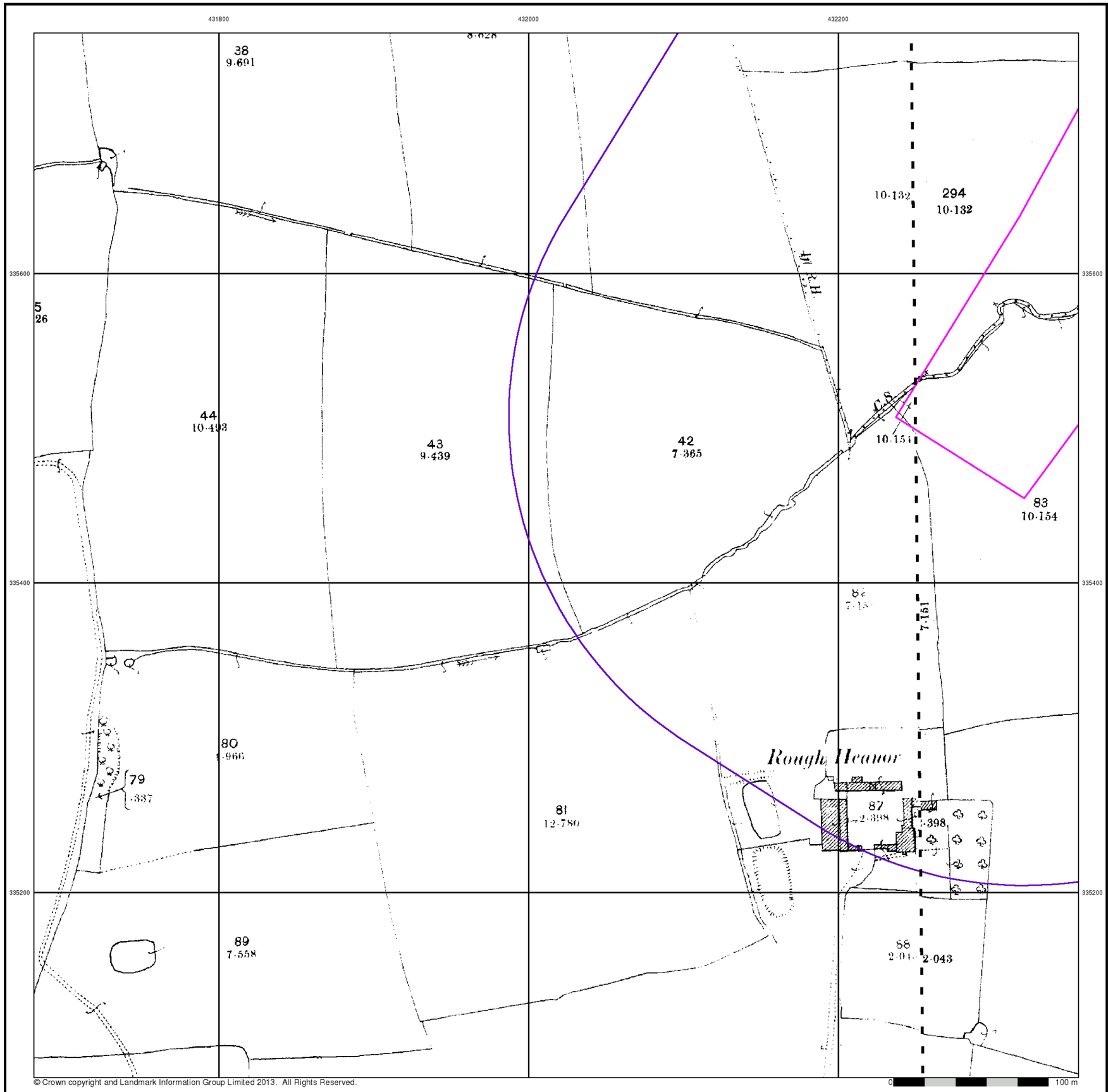
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Slice:	A
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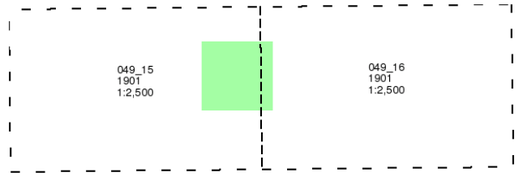
Derbyshire

Published 1901

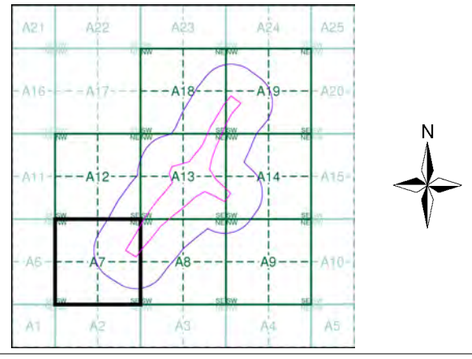
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Historical Map - Segment A7



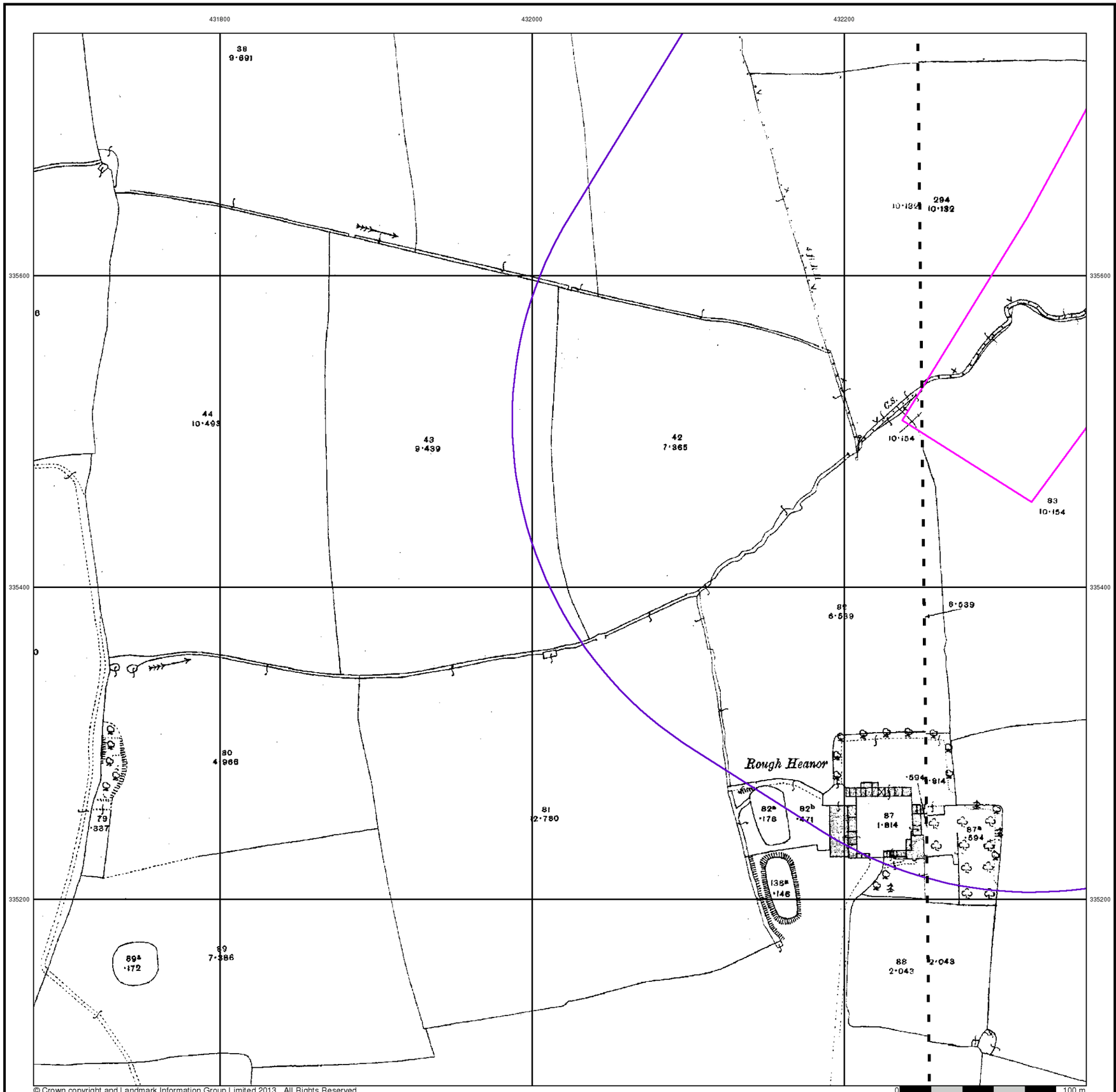
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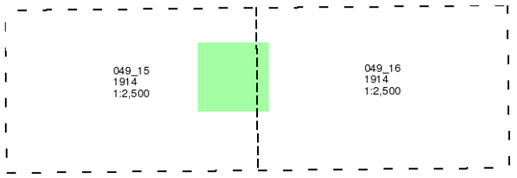
Derbyshire

Published 1914

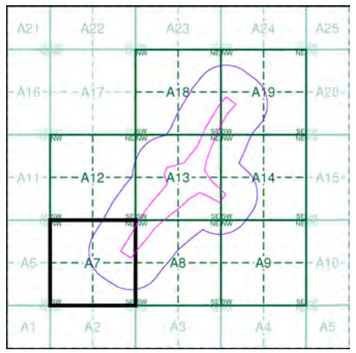
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Historical Map - Segment A7



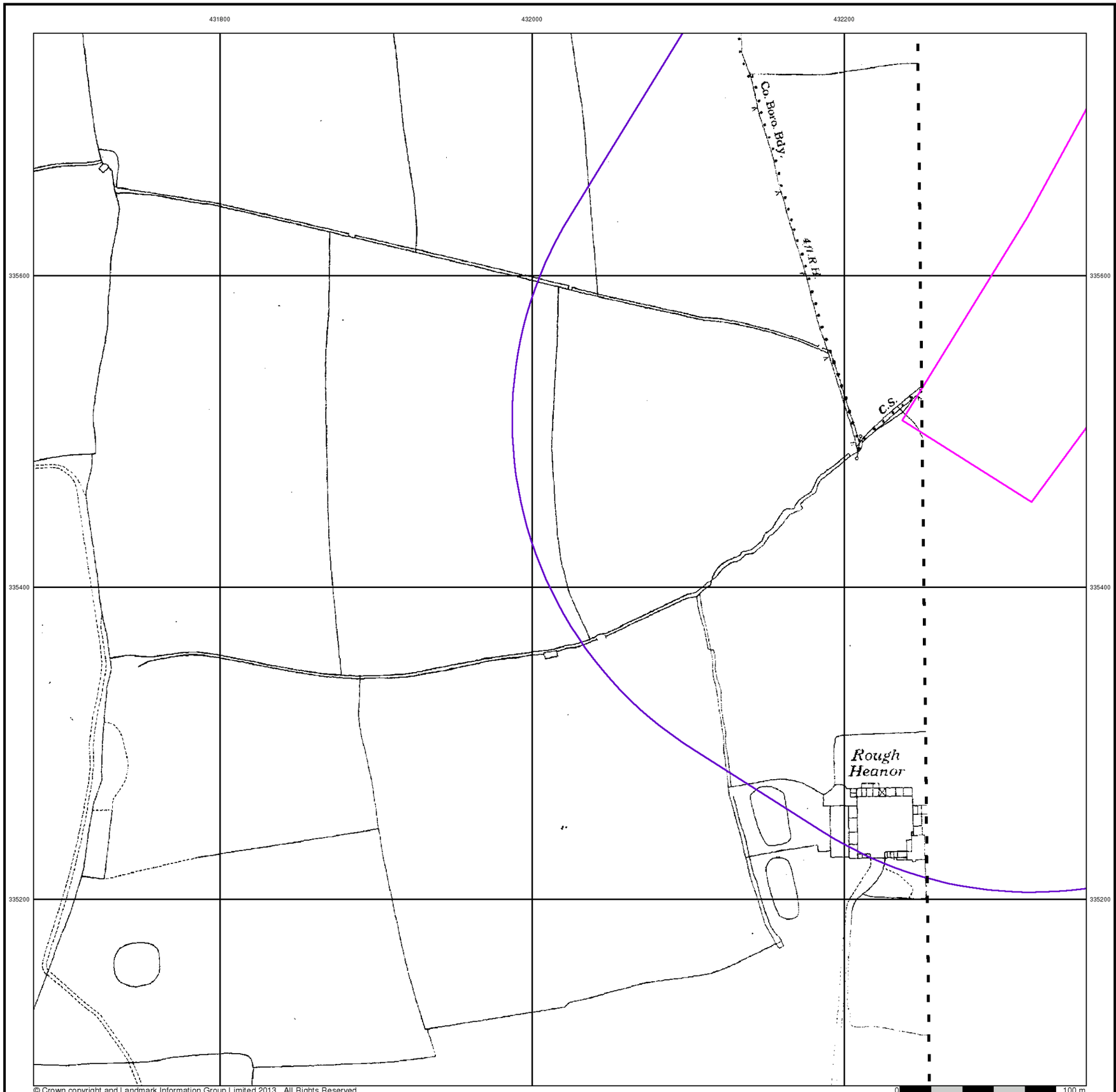
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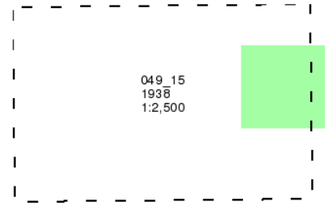
Derbyshire

Published 1938

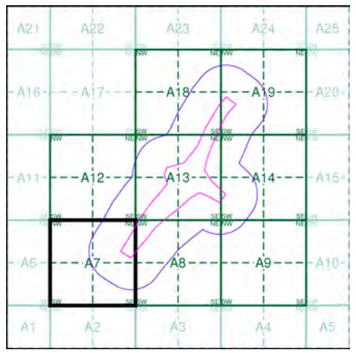
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



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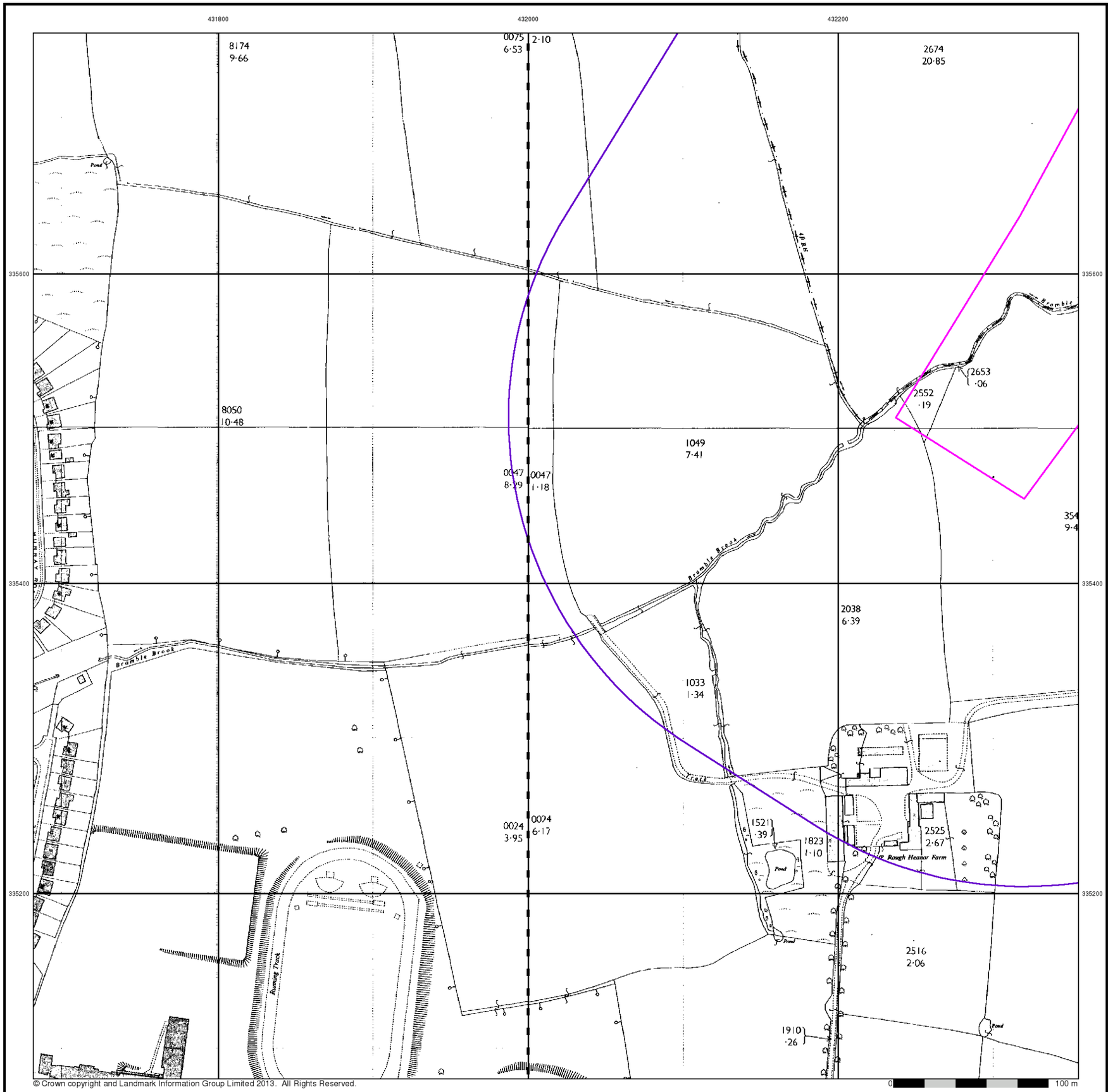
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431800
432000
432200
335600
335400
335200
Pond
C B & Mans. Comm Rly
Cal Comm & R Ty Rly
Brambie Brook
Bramble Brook
Track
Rough Heanor Farm
Pond
Pond
Pond
Running Track
Pond
Pond
Pond



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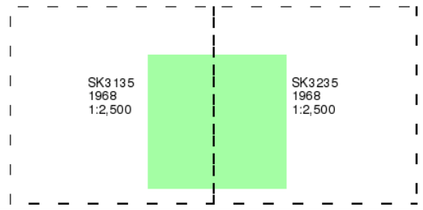
Ordnance Survey Plan

Published 1968

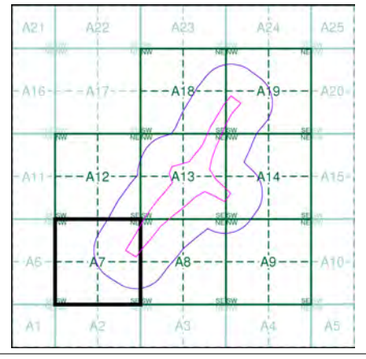
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



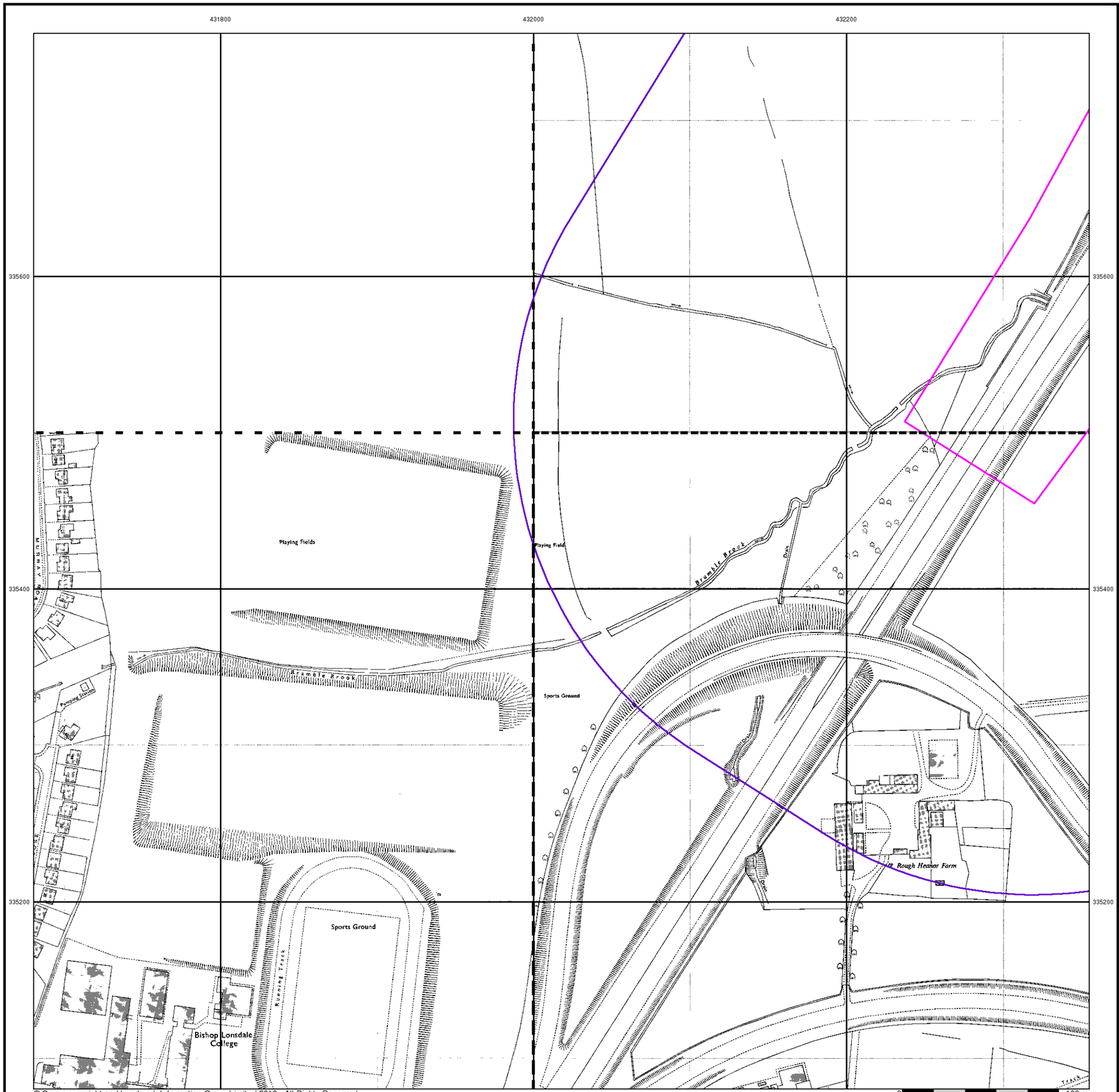
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Ordnance Survey Plan

Published 1973 - 1976

Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

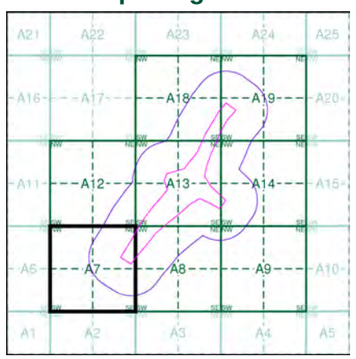
Map Name(s) and Date(s)

SK3235NW 1976 1:1,250

SK3135SE 1973 1:1,250

SK3235SW 1976 1:1,250

Historical Map - Segment A7



Order Details

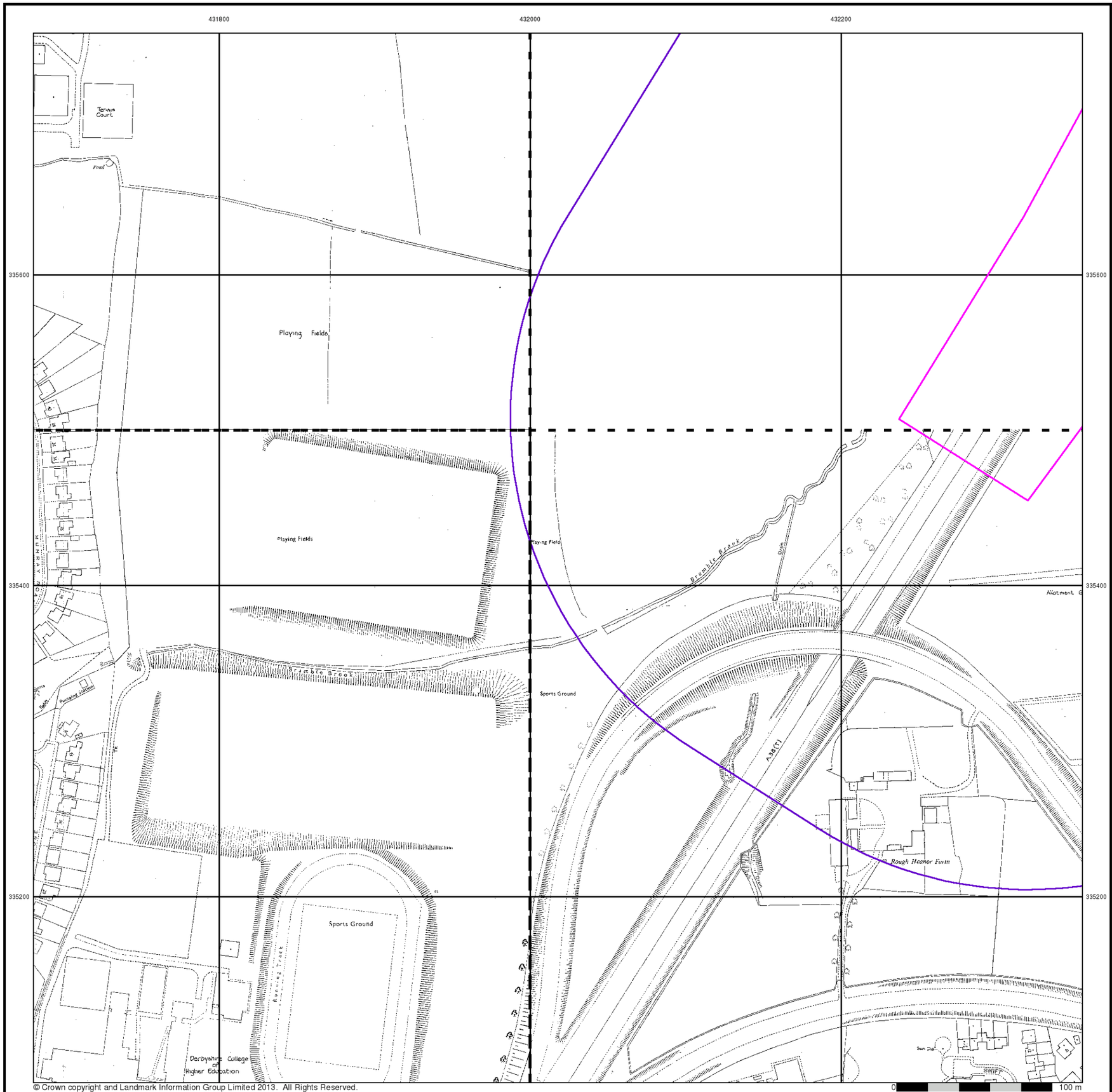
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National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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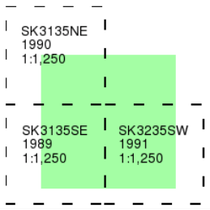
Additional SIMs

Published 1989 - 1991

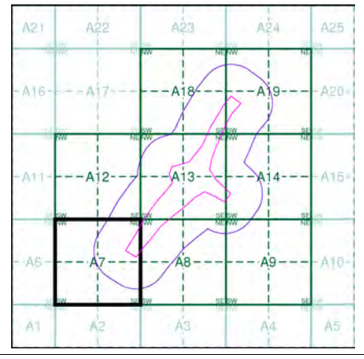
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

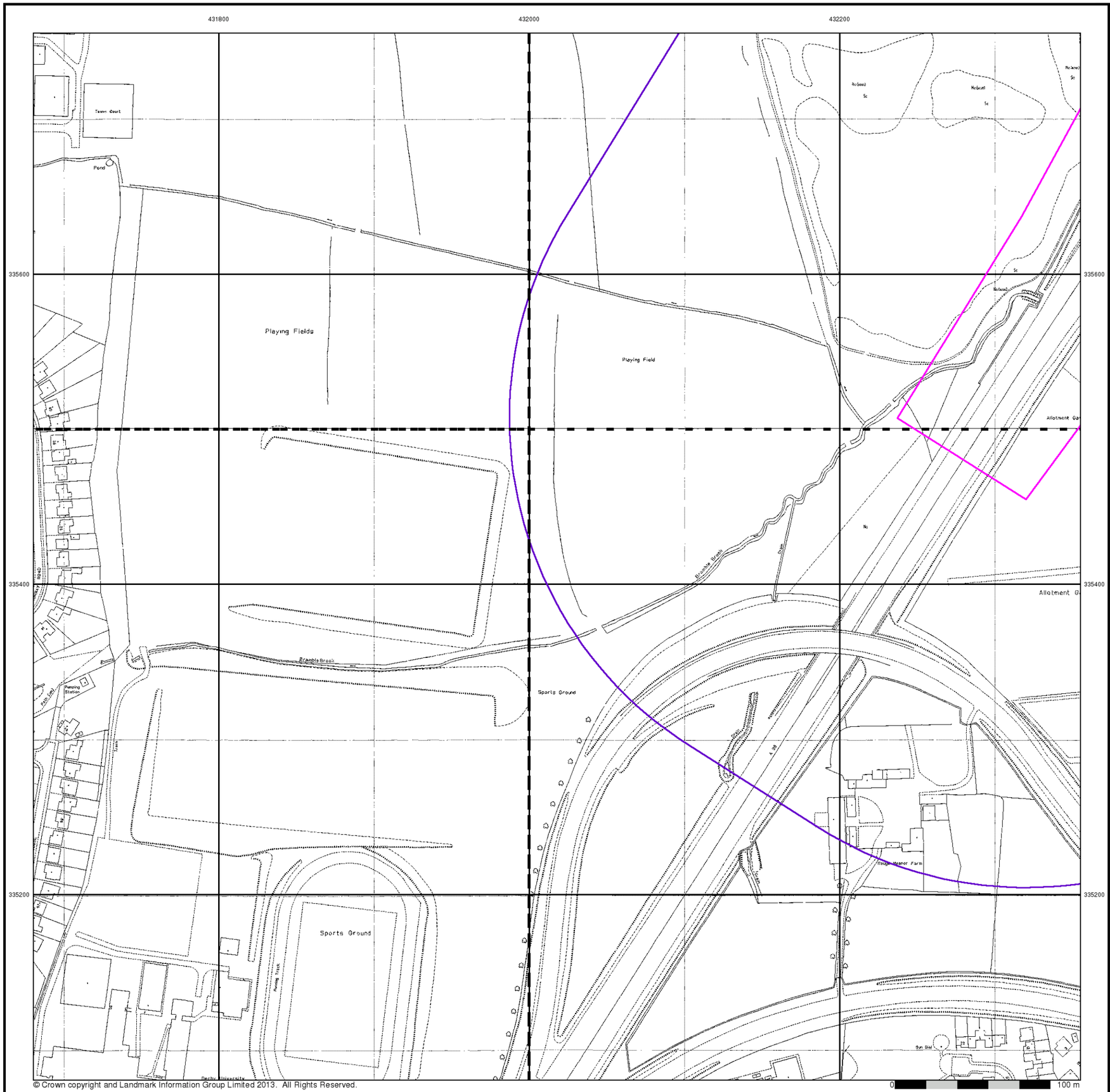
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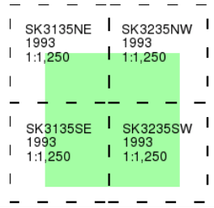
Large-Scale National Grid Data

Published 1993

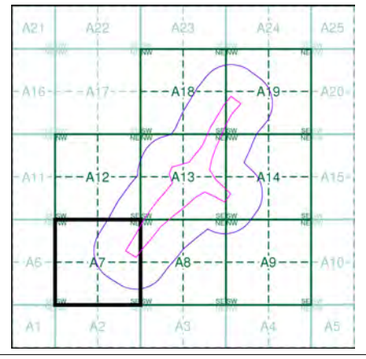
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
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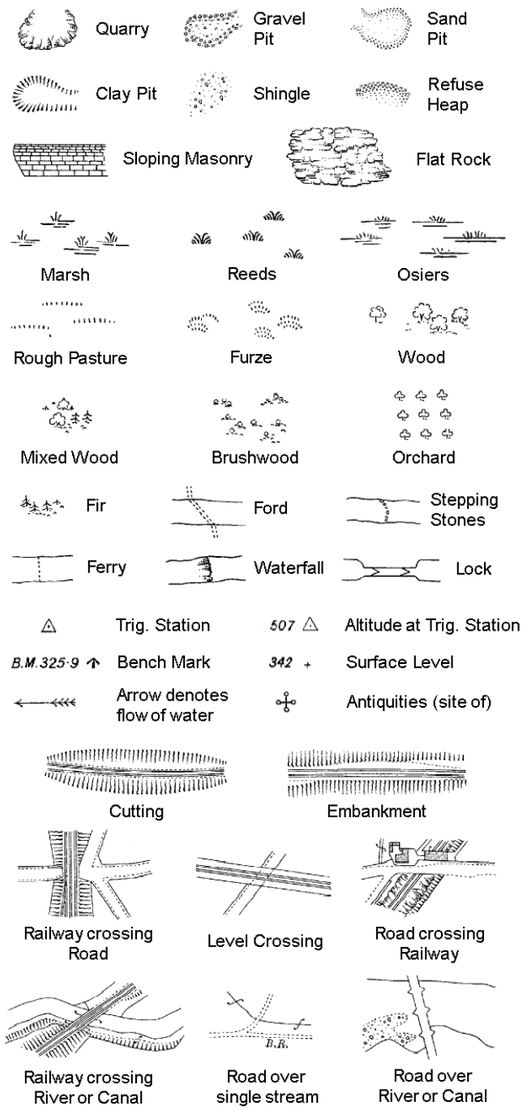
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Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)

County & Civil Parish Boundary

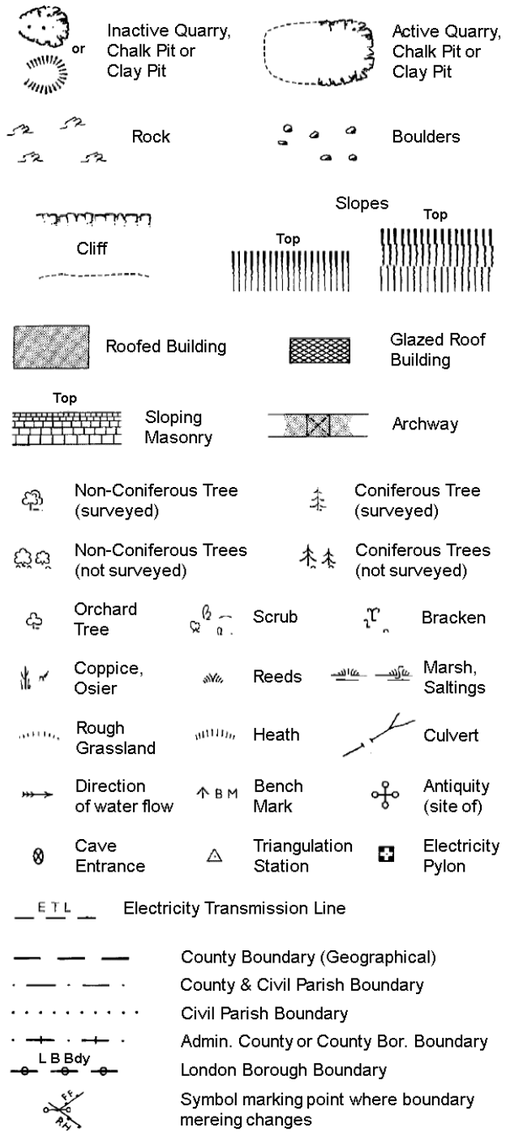
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

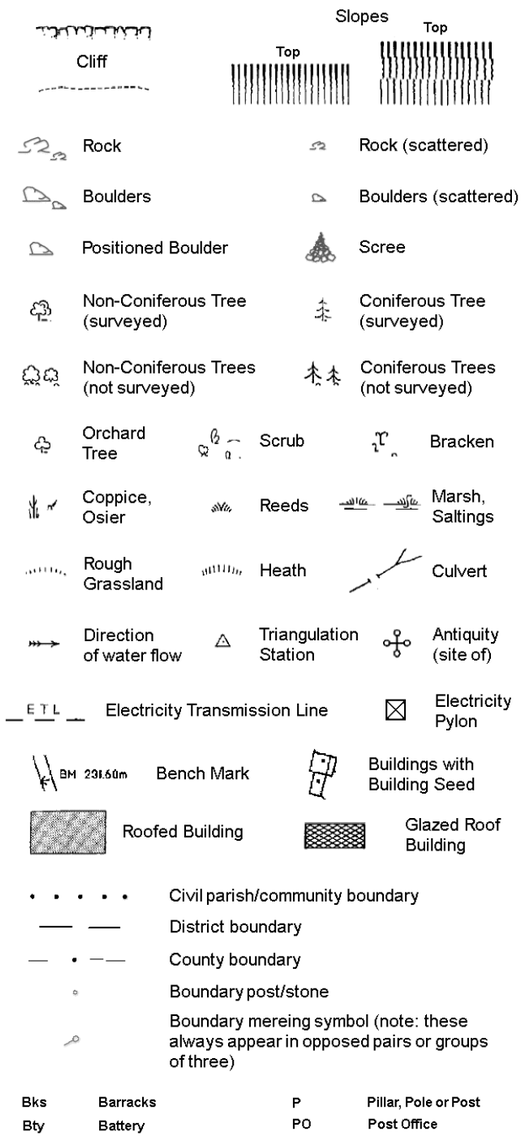
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

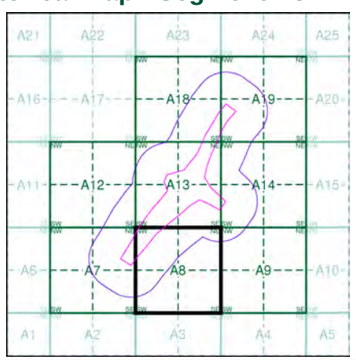
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1914	4
Ordnance Survey Plan	1:2,500	1947 - 1968	5
Ordnance Survey Plan	1:1,250	1948 - 1966	6
Ordnance Survey Plan	1:1,250	1954 - 1976	7
Ordnance Survey Plan	1:2,500	1968	8
Ordnance Survey Plan	1:1,250	1971	9
Additional SIMs	1:1,250	1978 - 1991	10
Additional SIMs	1:1,250	1990 - 1992	11
Large-Scale National Grid Data	1:1,250	1993	12
Large-Scale National Grid Data	1:1,250	1993 - 1994	13
Large-Scale National Grid Data	1:1,250	1996	14
Large-Scale National Grid Data	1:1,250	1996	15

Historical Map - Segment A8



Order Details

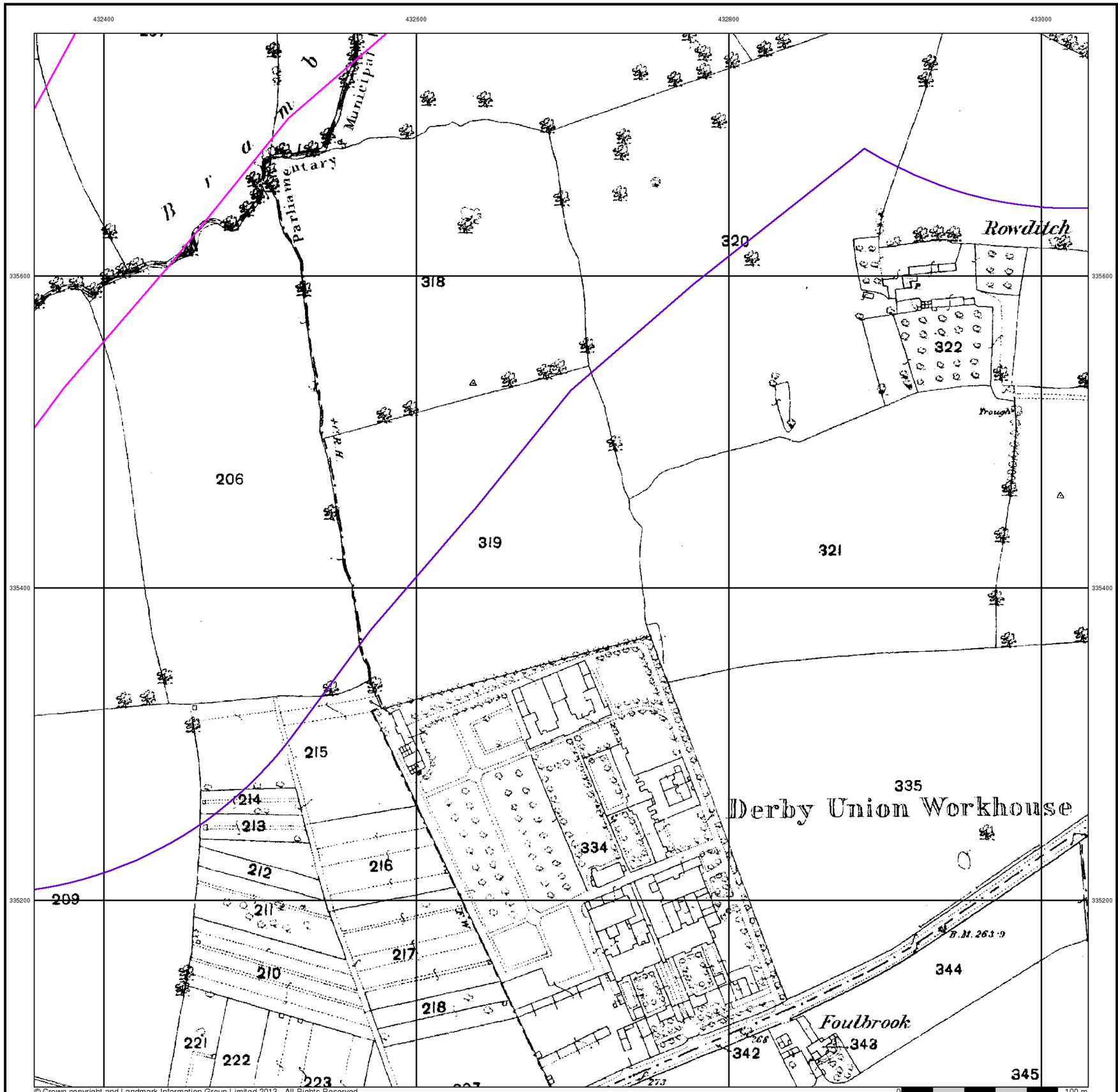
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

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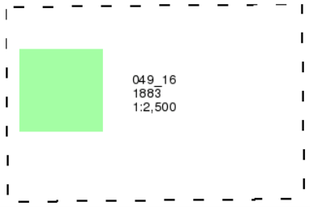
Derbyshire

Published 1883

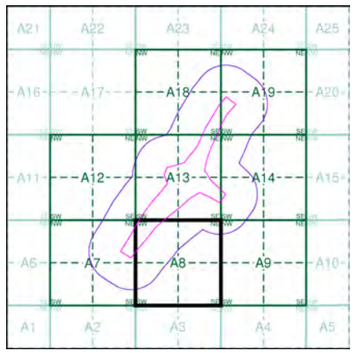
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A8



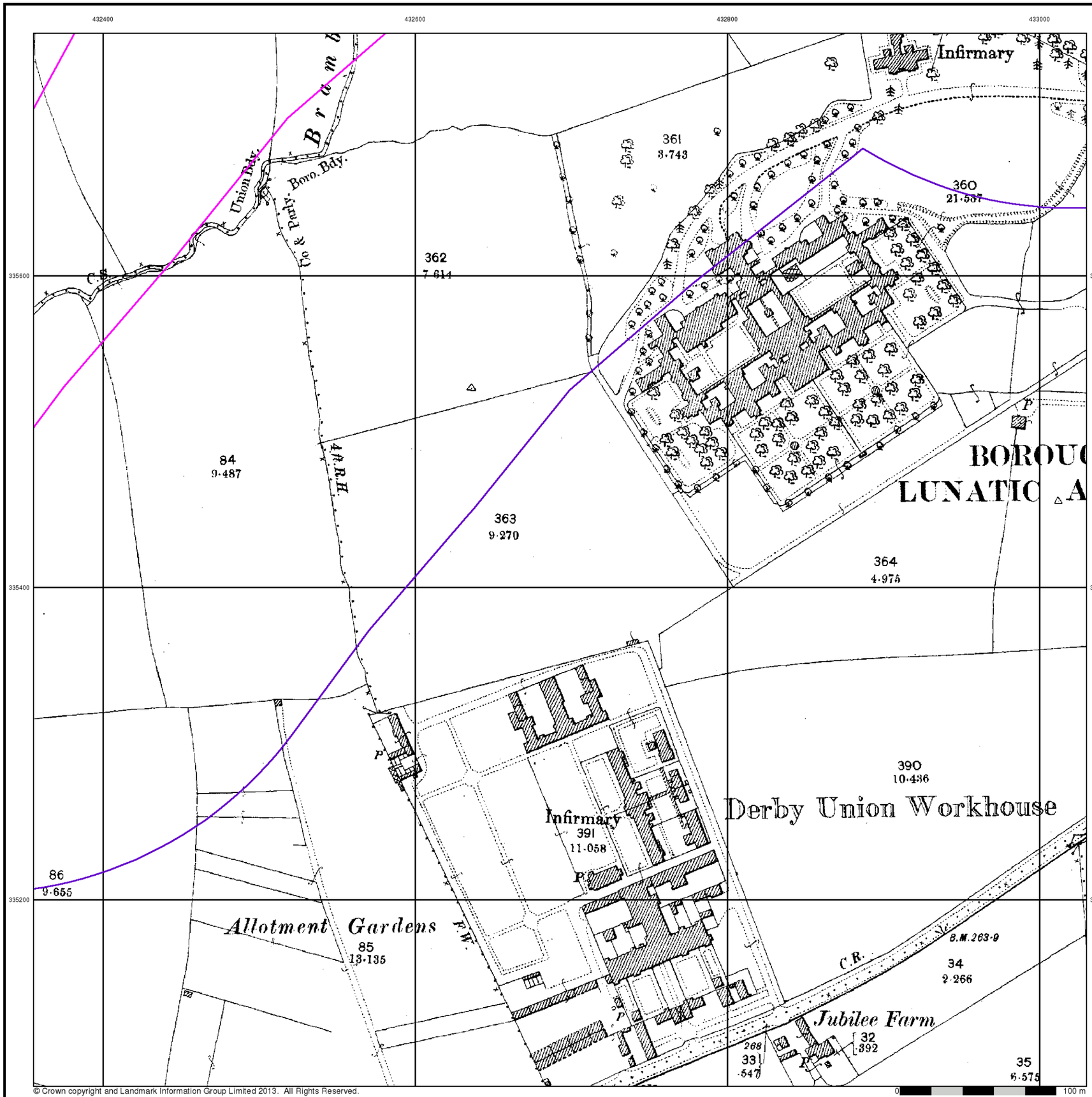
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Derbyshire

Published 1901

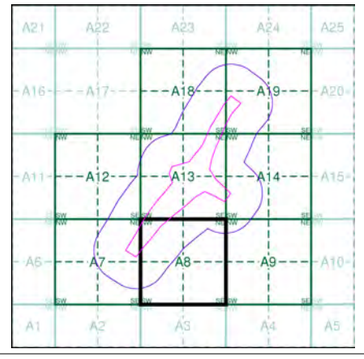
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

049_16
1901
1:2,500

Historical Map - Segment A8



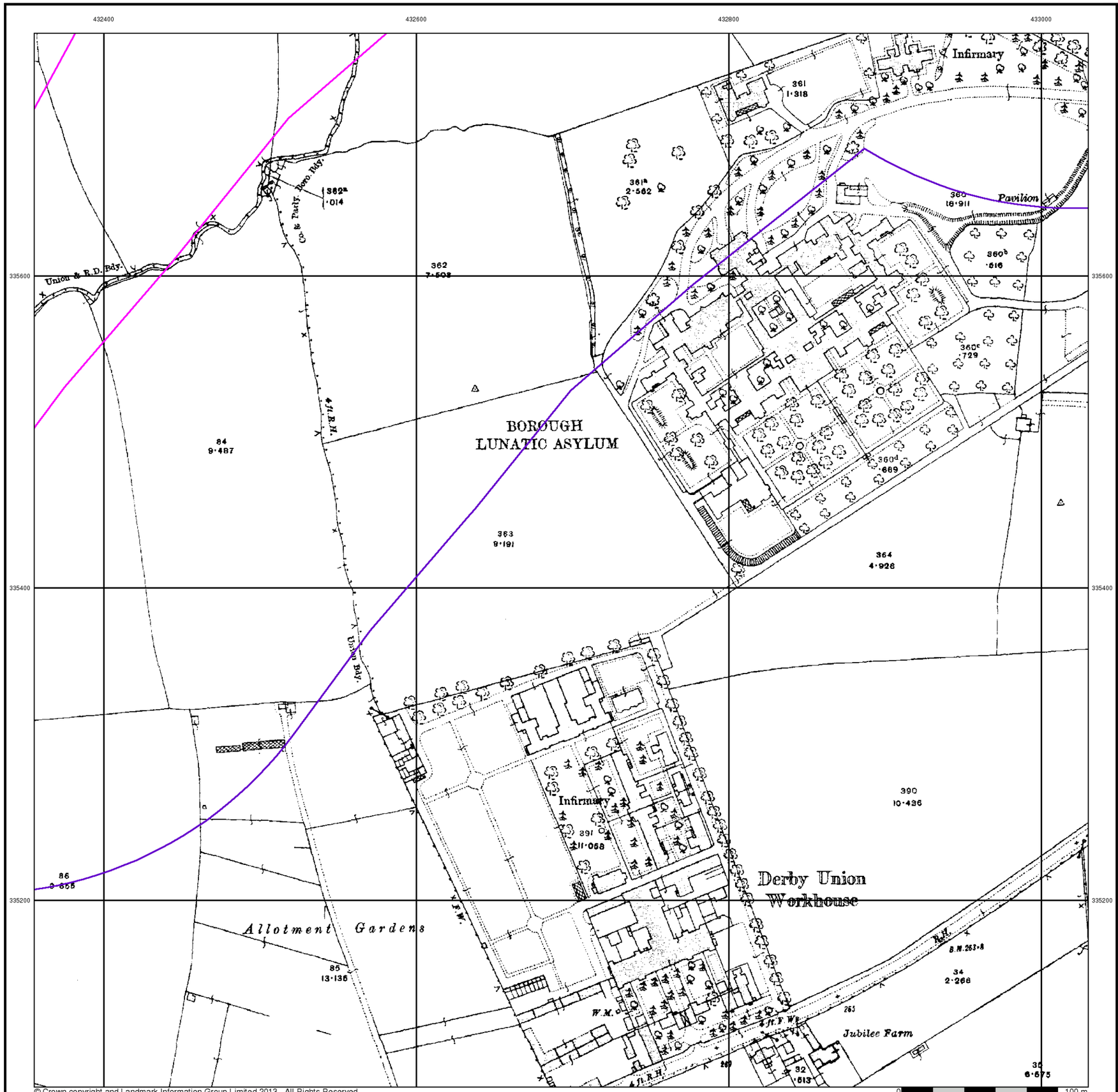
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Derbyshire

Published 1914

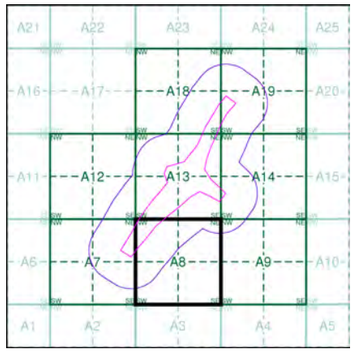
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

049_16
1914
1:2,500

Historical Map - Segment A8



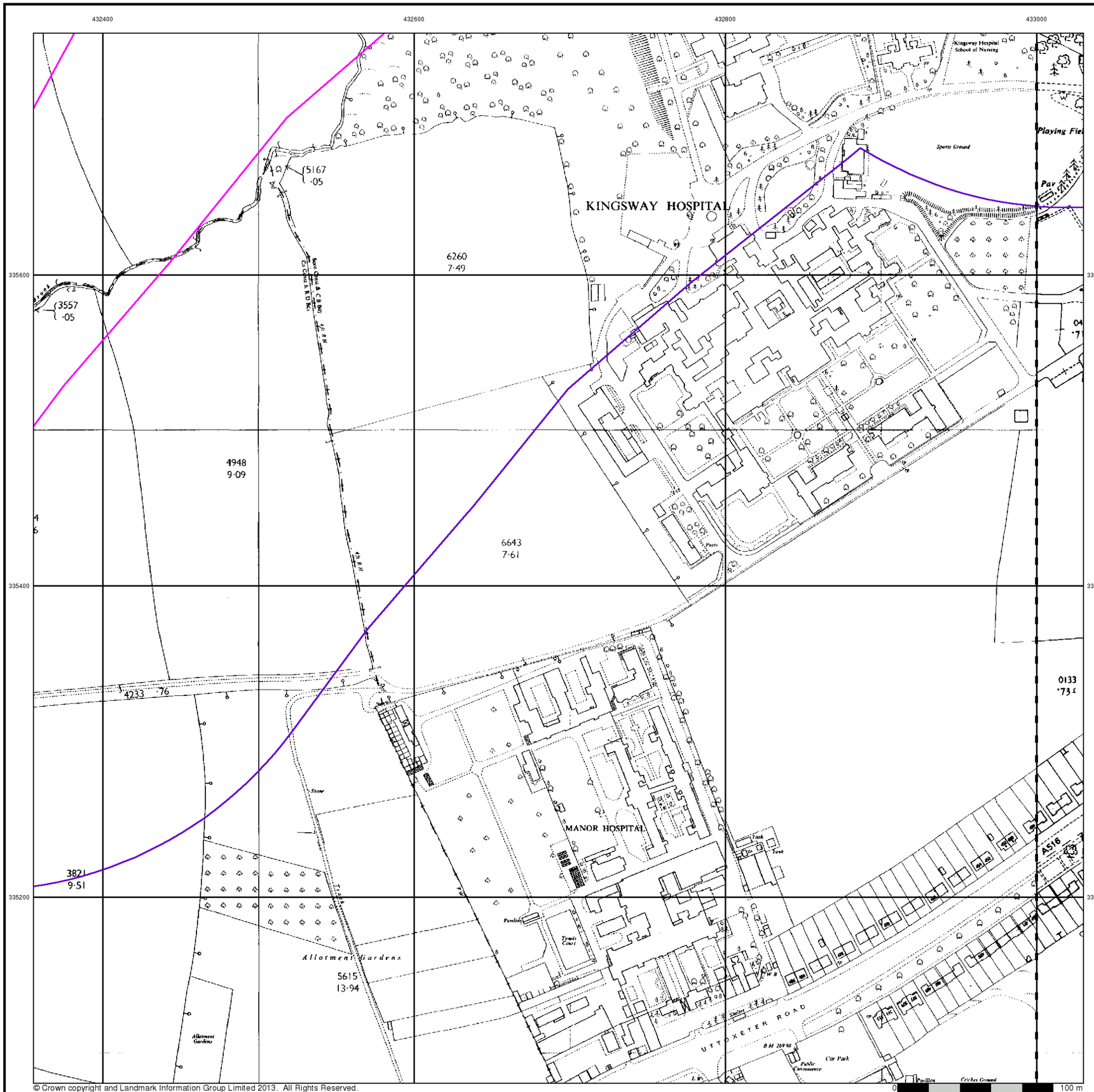
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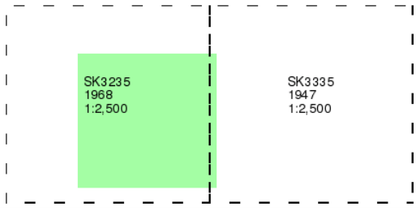
Ordnance Survey Plan

Published 1947 - 1968

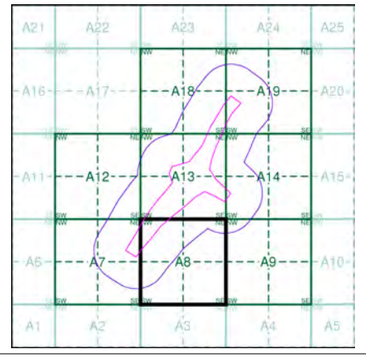
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

Order Number:	60387304_1_1
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Ordnance Survey Plan

Published 1948 - 1966

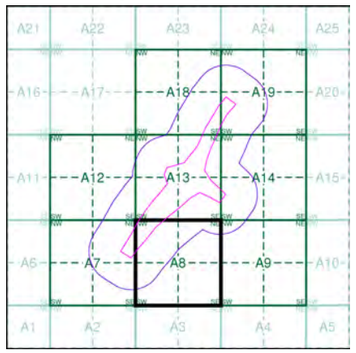
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3235NW 1966 1:1,250	SK3235NE 1966 1:1,250	SK3335NW 1948 1:1,250
SK3235SW 1966 1:1,250	SK3235SE 1966 1:1,250	SK3335SW 1948 1:1,250

Historical Map - Segment A8



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
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Site Area (Ha):	24.66
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Ordnance Survey Plan

Published 1954 - 1976

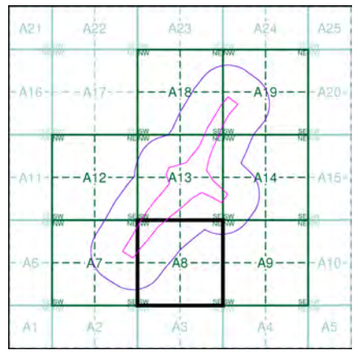
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3235NW 1976 1:1,250	SK3235NE 1976 1:1,250	SK3335NW 1967 1:1,250
SK3235SW 1976 1:1,250	SK3235SE 1976 1:1,250	SK3335SW 1954 1:1,250

Historical Map - Segment A8



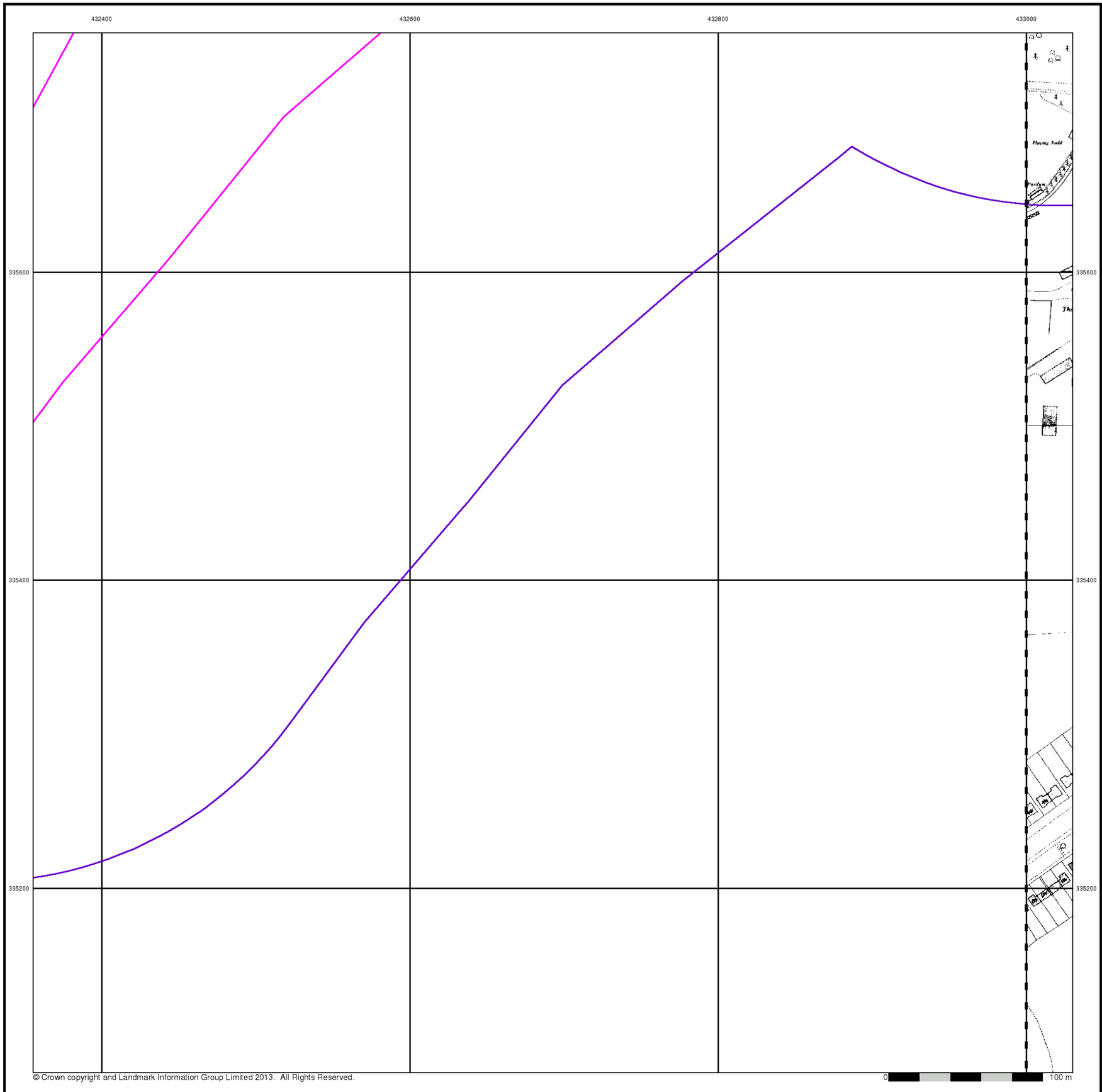
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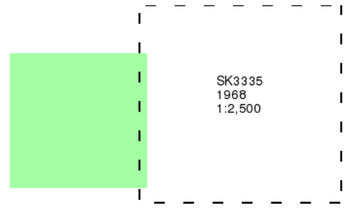
Ordnance Survey Plan

Published 1968

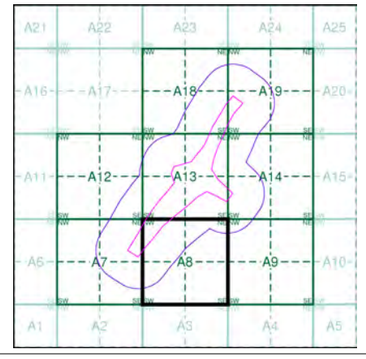
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

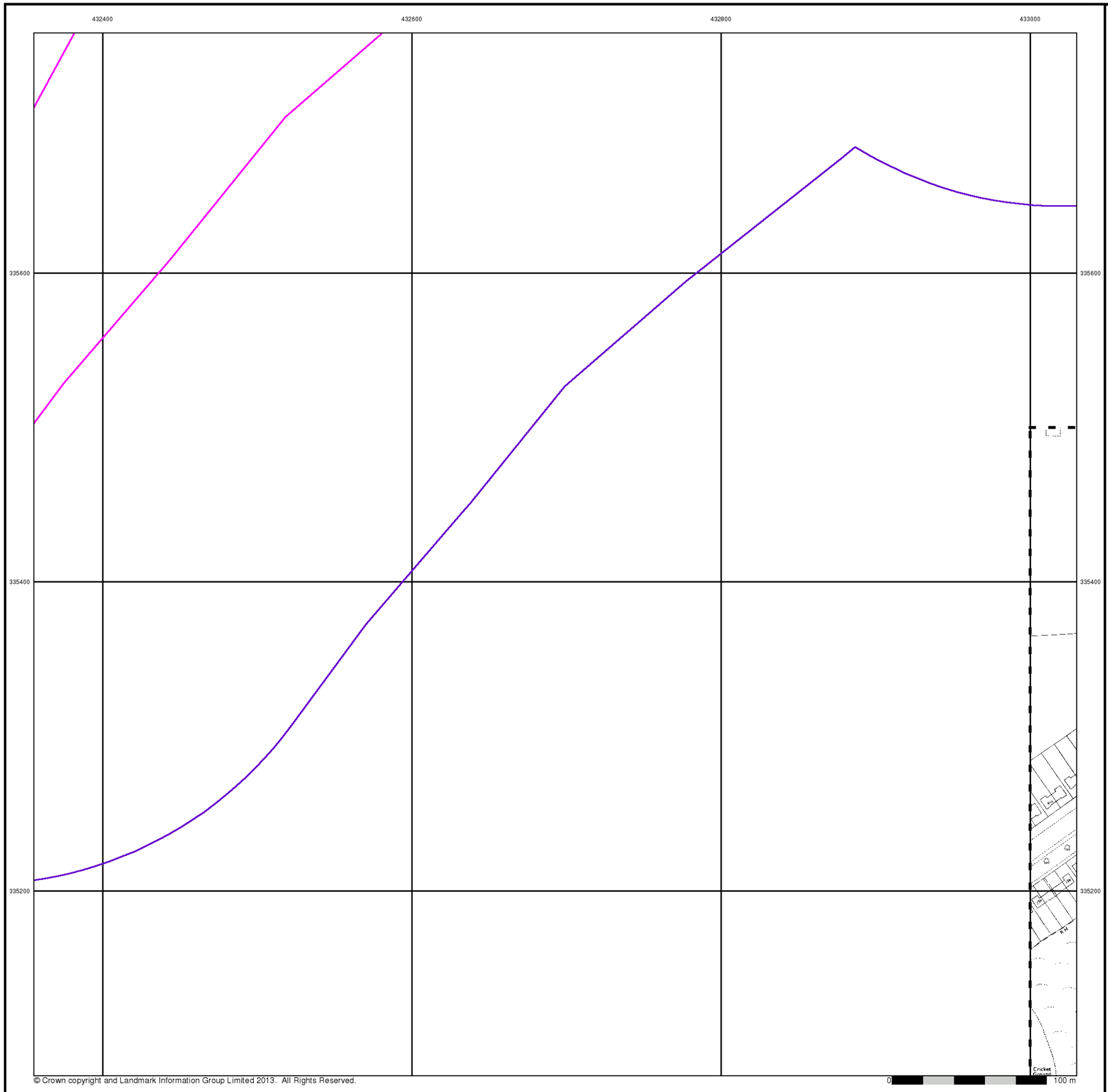
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Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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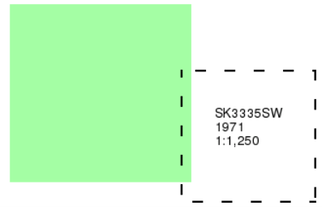
Ordnance Survey Plan

Published 1971

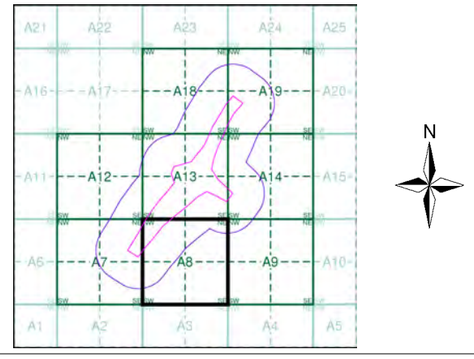
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

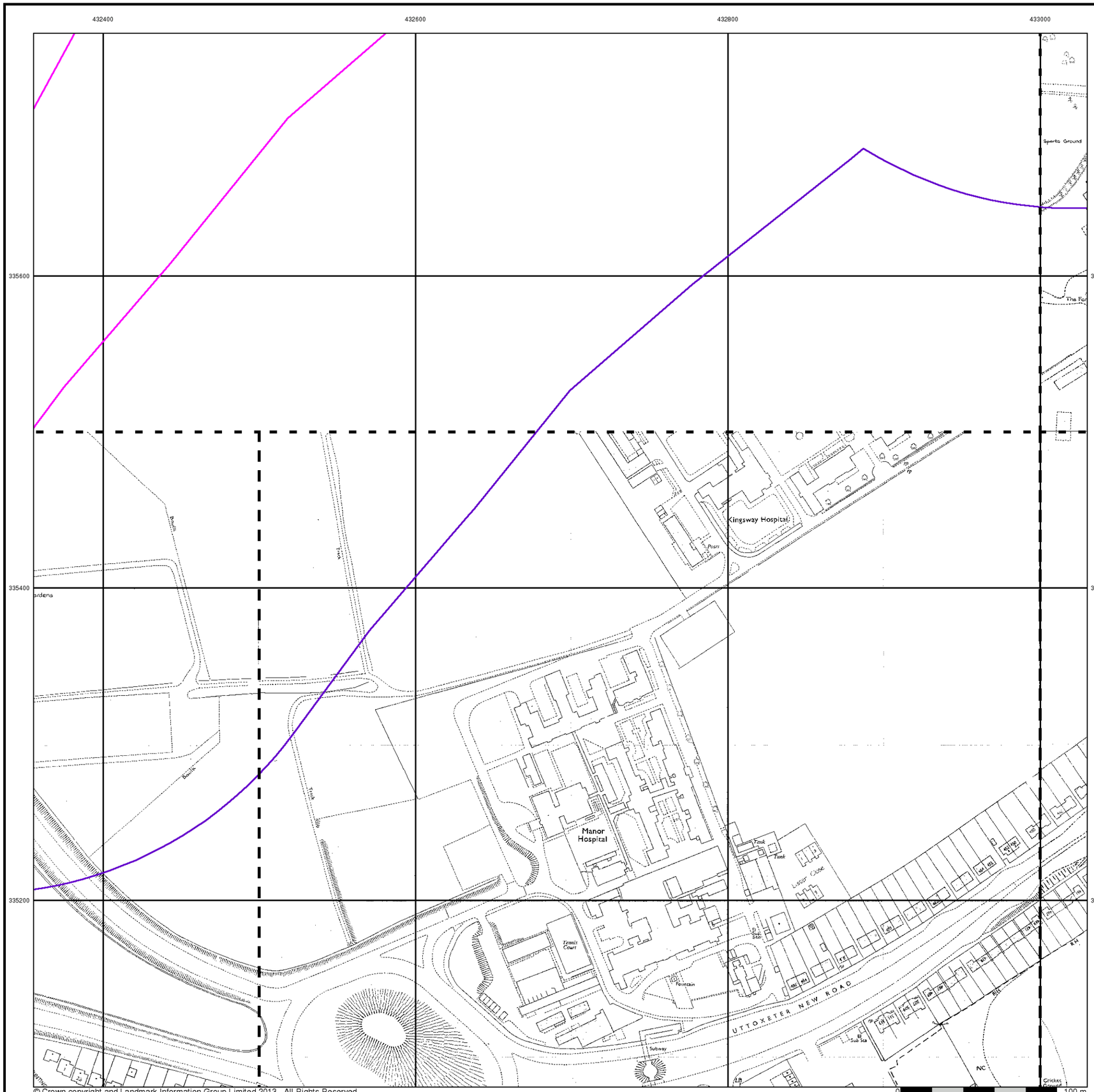
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Search Buffer (m):	250

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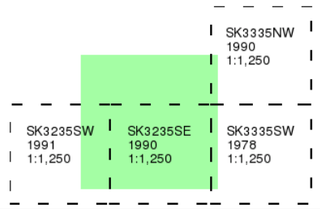
Additional SIMs

Published 1978 - 1991

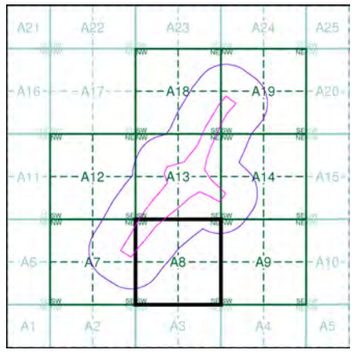
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A8



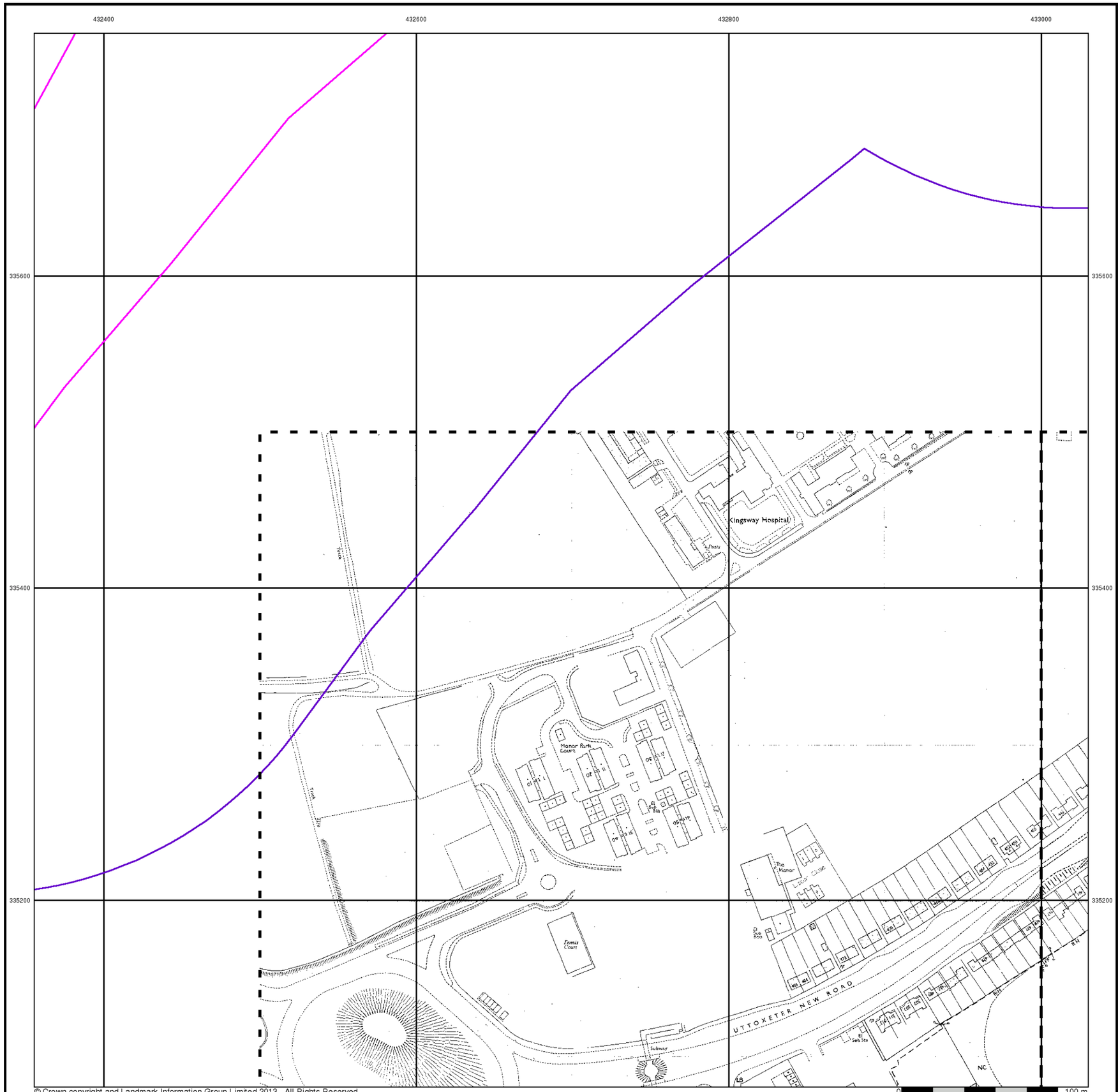
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432400
432600
432800
433000
335600
335400
335200
Kingsway Hospital
Manor Park Court
Tennis Court
The Manor
UTTOXETER NEW ROAD
Subway
Track
Pond
Sub Sta
Sub Sta
Sub Sta



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Large-Scale National Grid Data

Published 1993

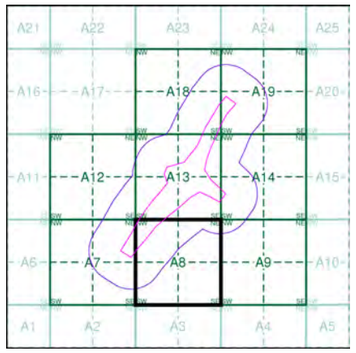
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3235NW 1993 1:1,250	SK3235NE 1993 1:1,250	SK3335NW 1993 1:1,250
SK3235SW 1993 1:1,250	SK3235SE 1993 1:1,250	SK3335SW 1993 1:1,250

Historical Map - Segment A8



Order Details

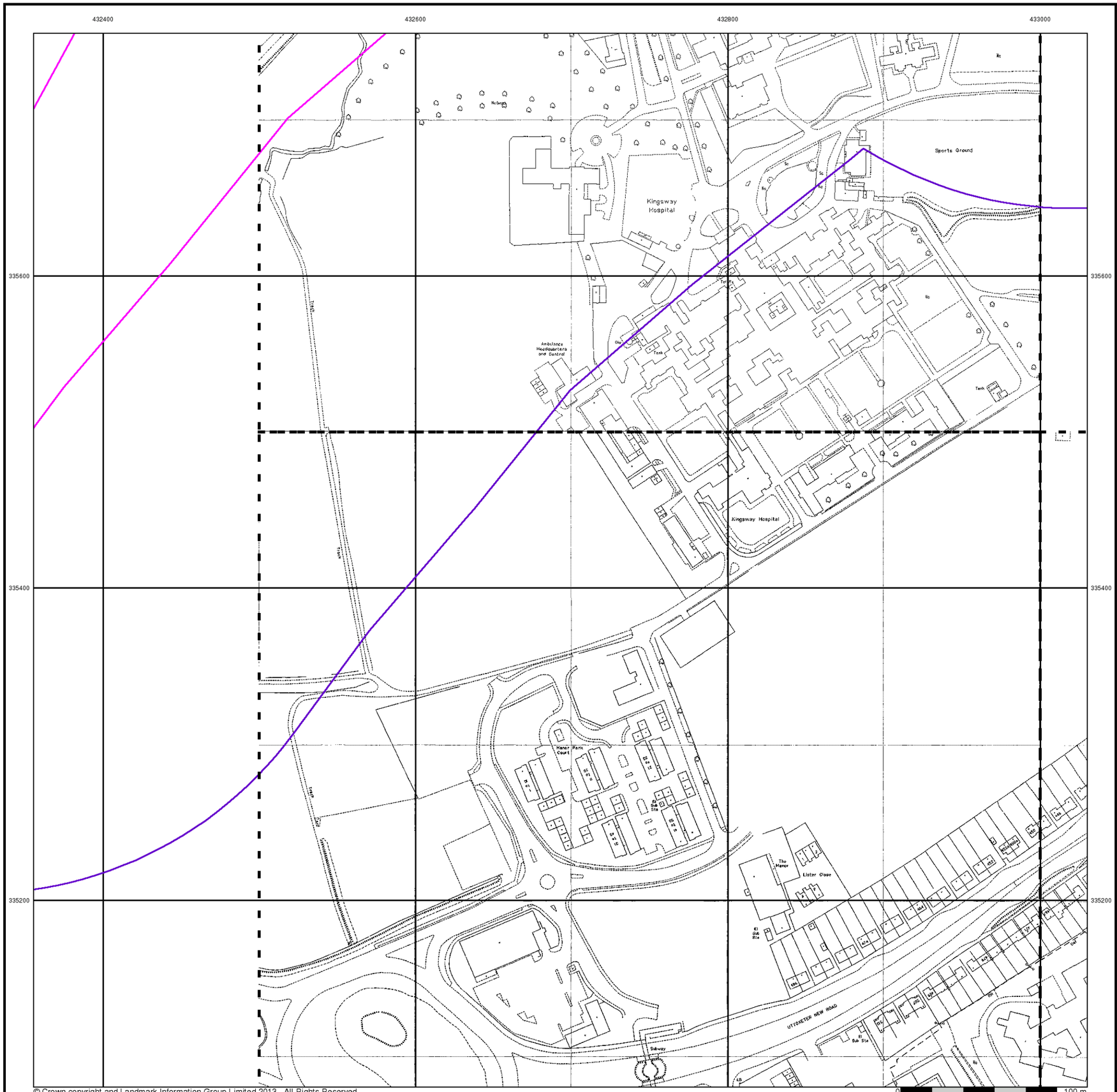
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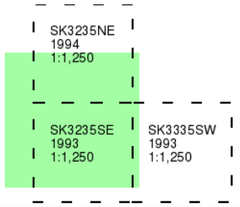
Large-Scale National Grid Data

Published 1993 - 1994

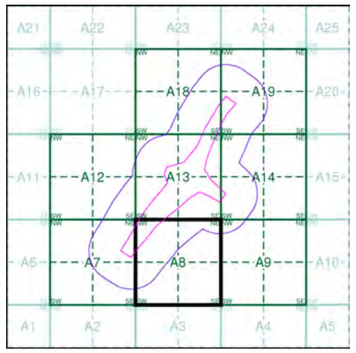
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

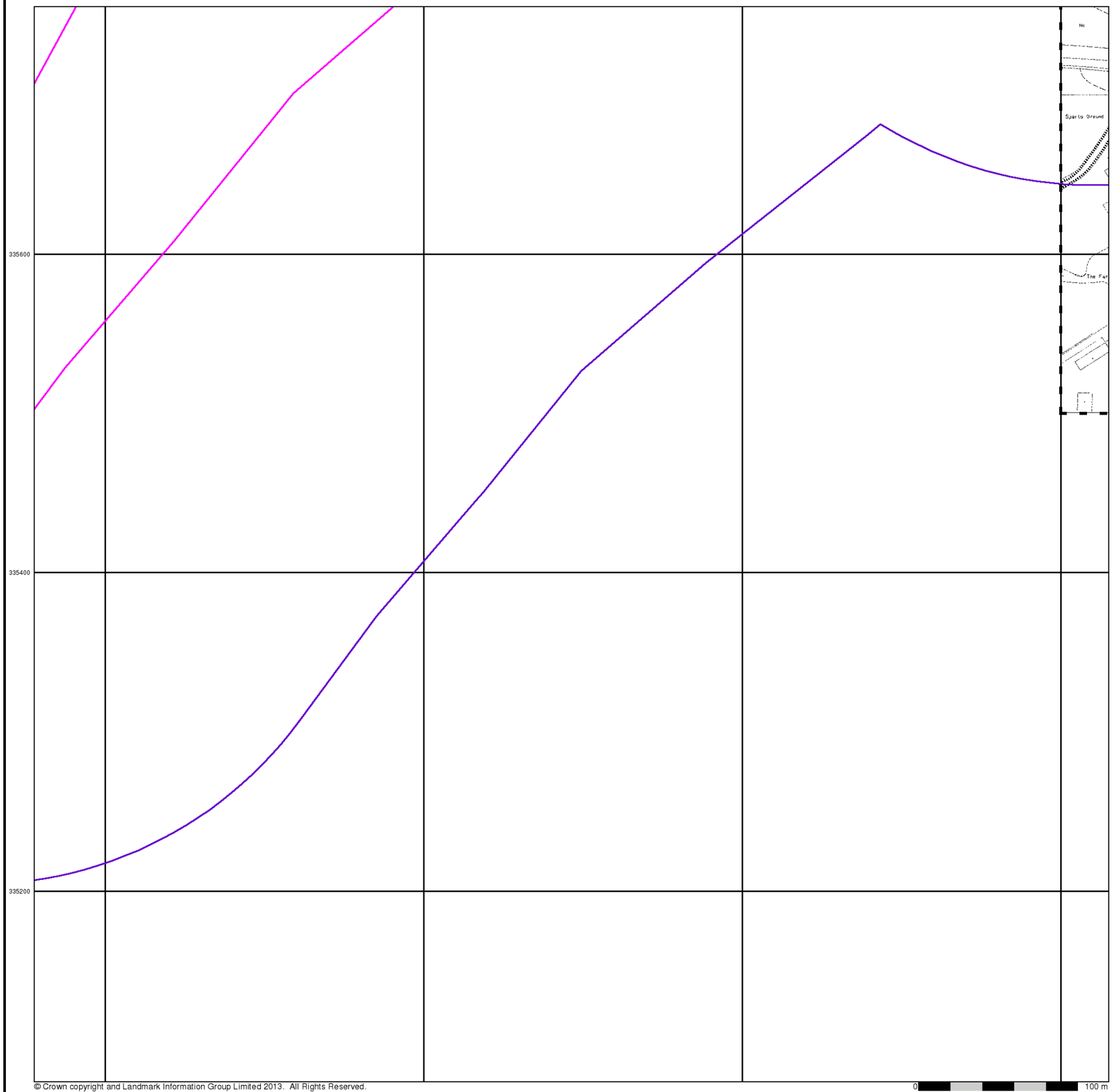
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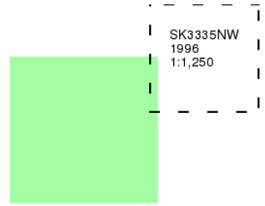
Large-Scale National Grid Data

Published 1996

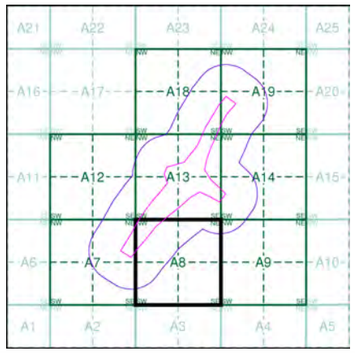
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

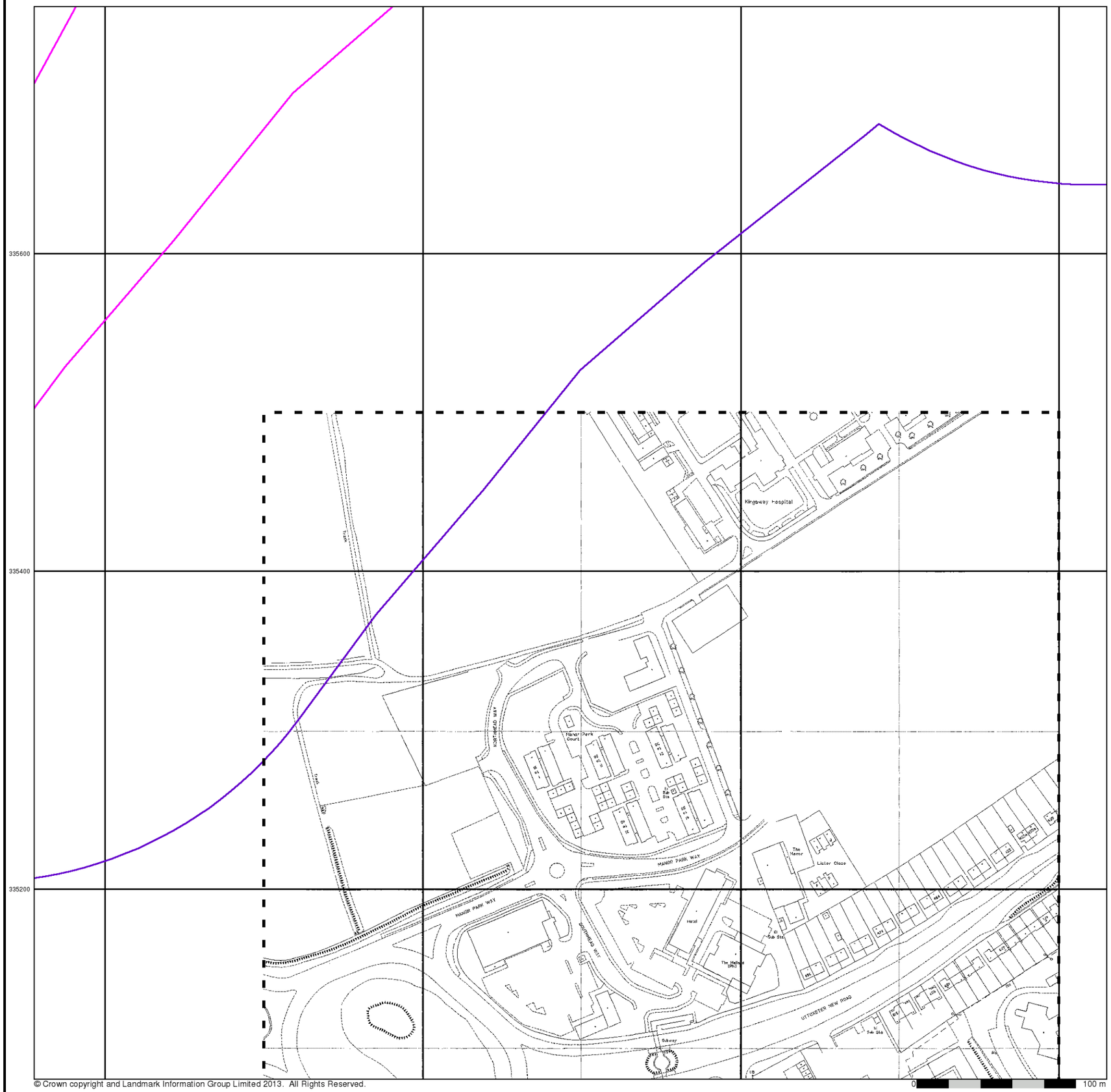
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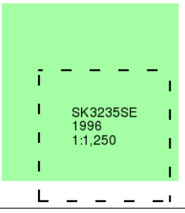
Large-Scale National Grid Data

Published 1996

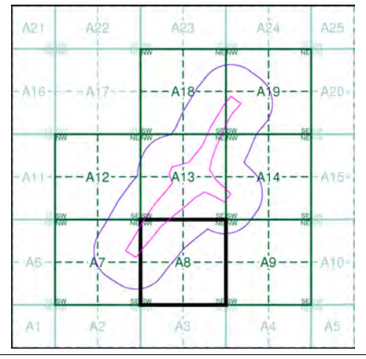
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

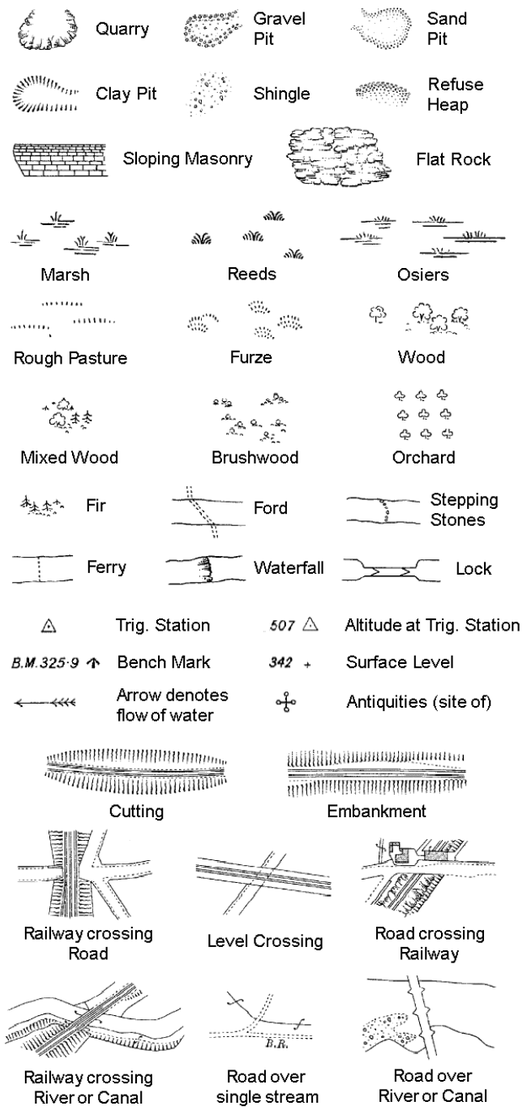
Site at, Derby, City of Derby

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Historical Mapping Legends

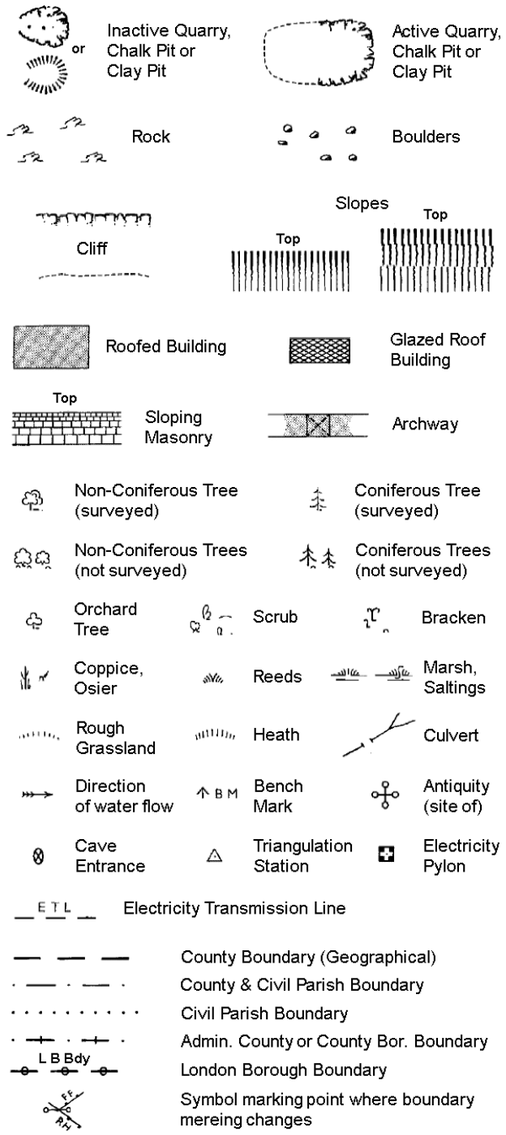
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

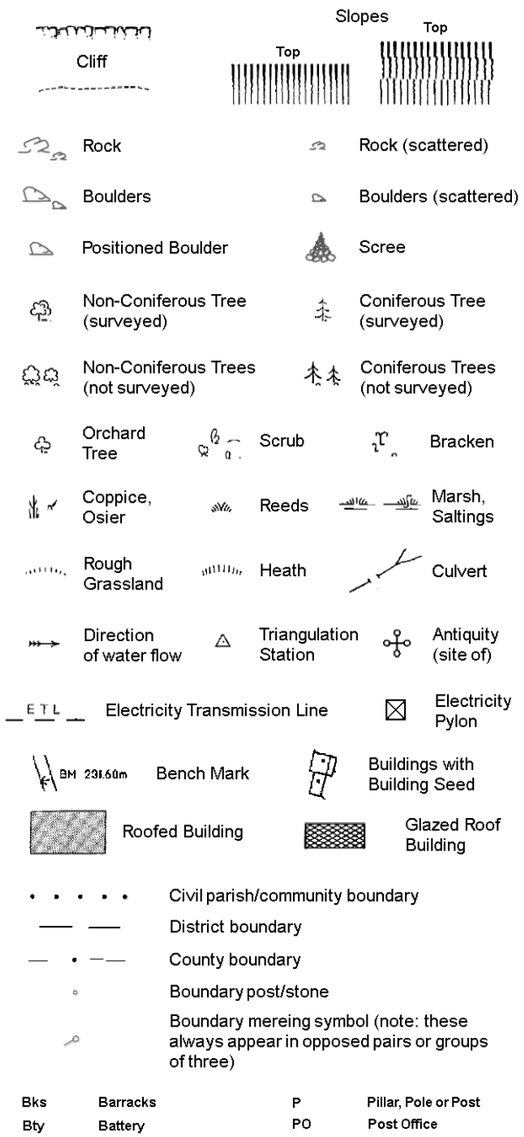
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

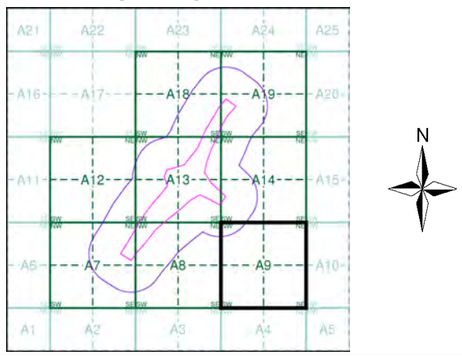
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1914	4
Ordnance Survey Plan	1:2,500	1947	5
Ordnance Survey Plan	1:1,250	1948	6
Ordnance Survey Plan	1:1,250	1952 - 1967	7
Ordnance Survey Plan	1:2,500	1968	8
Ordnance Survey Plan	1:1,250	1970 - 1971	9
Additional SIMs	1:1,250	1978 - 1990	10
Additional SIMs	1:1,250	1990	11
Large-Scale National Grid Data	1:1,250	1993	12
Large-Scale National Grid Data	1:1,250	1993	13
Large-Scale National Grid Data	1:1,250	1996	14

Historical Map - Segment A9



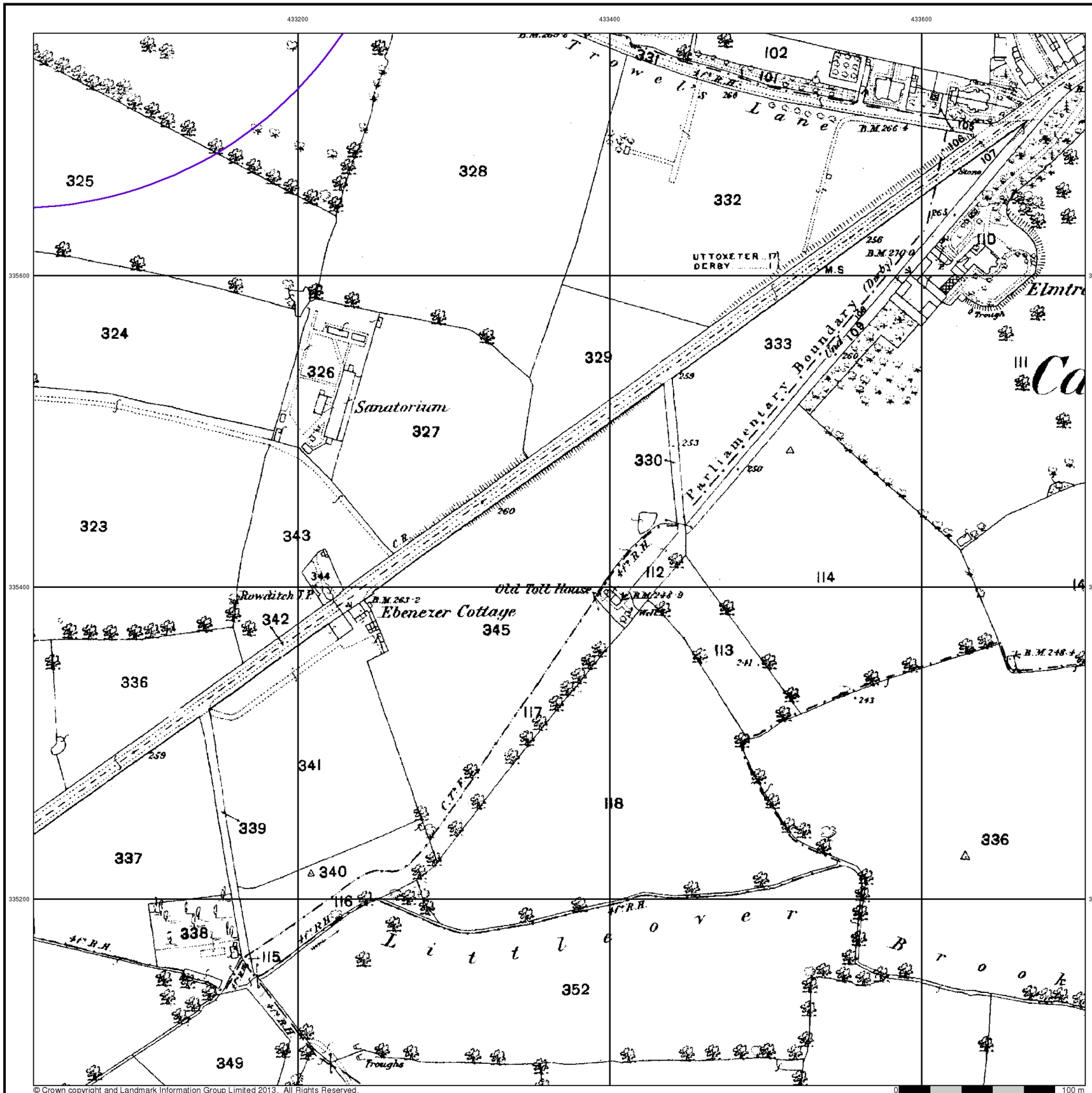
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Order Number: 60387304_1_1
Customer Ref: 47071637.208APS
National Grid Reference: 432740, 336060
Slice: A
Site Area (Ha): 24.66
Search Buffer (m): 250

Site Details

Site at, Derby, City of Derby

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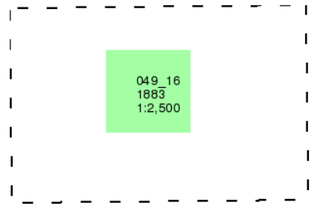
Derbyshire

Published 1883

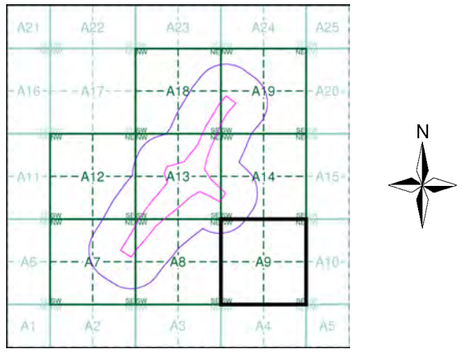
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A9



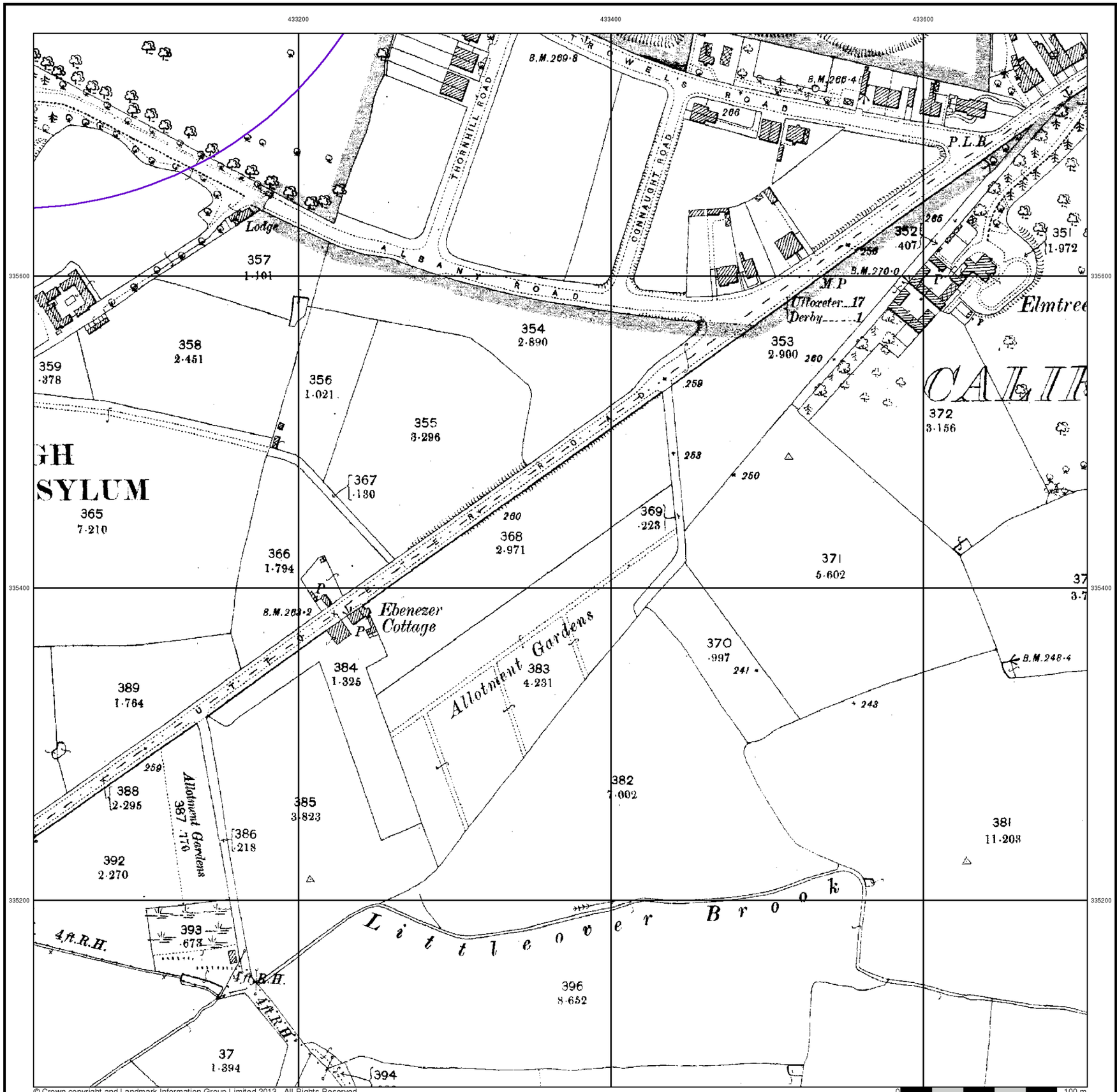
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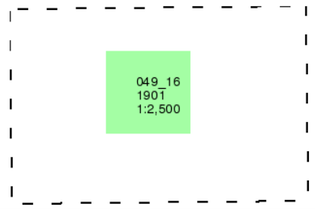
Derbyshire

Published 1901

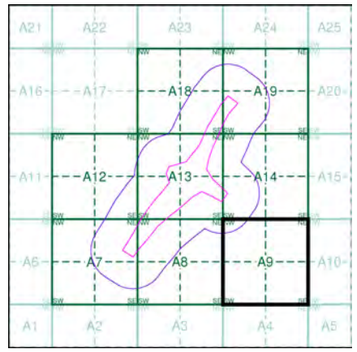
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A9



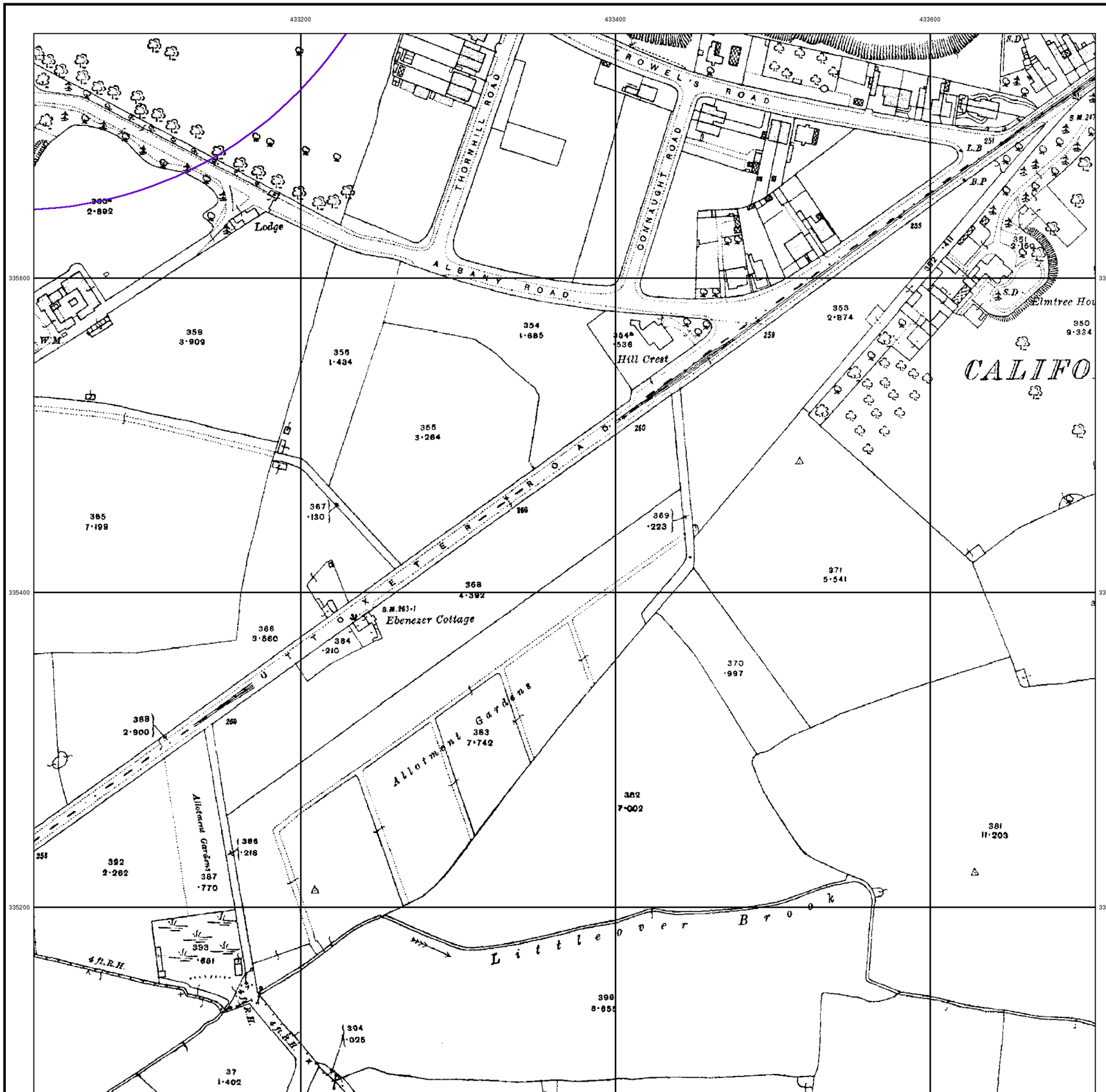
Order Details

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Derbyshire

Published 1914

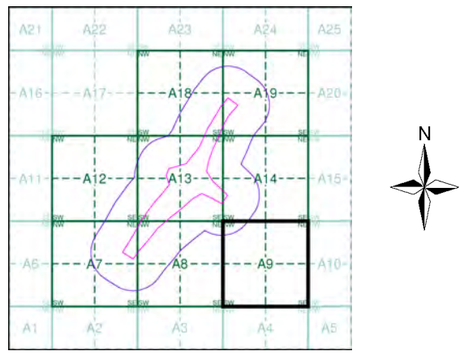
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

049_16
1914
1:2,500

Historical Map - Segment A9



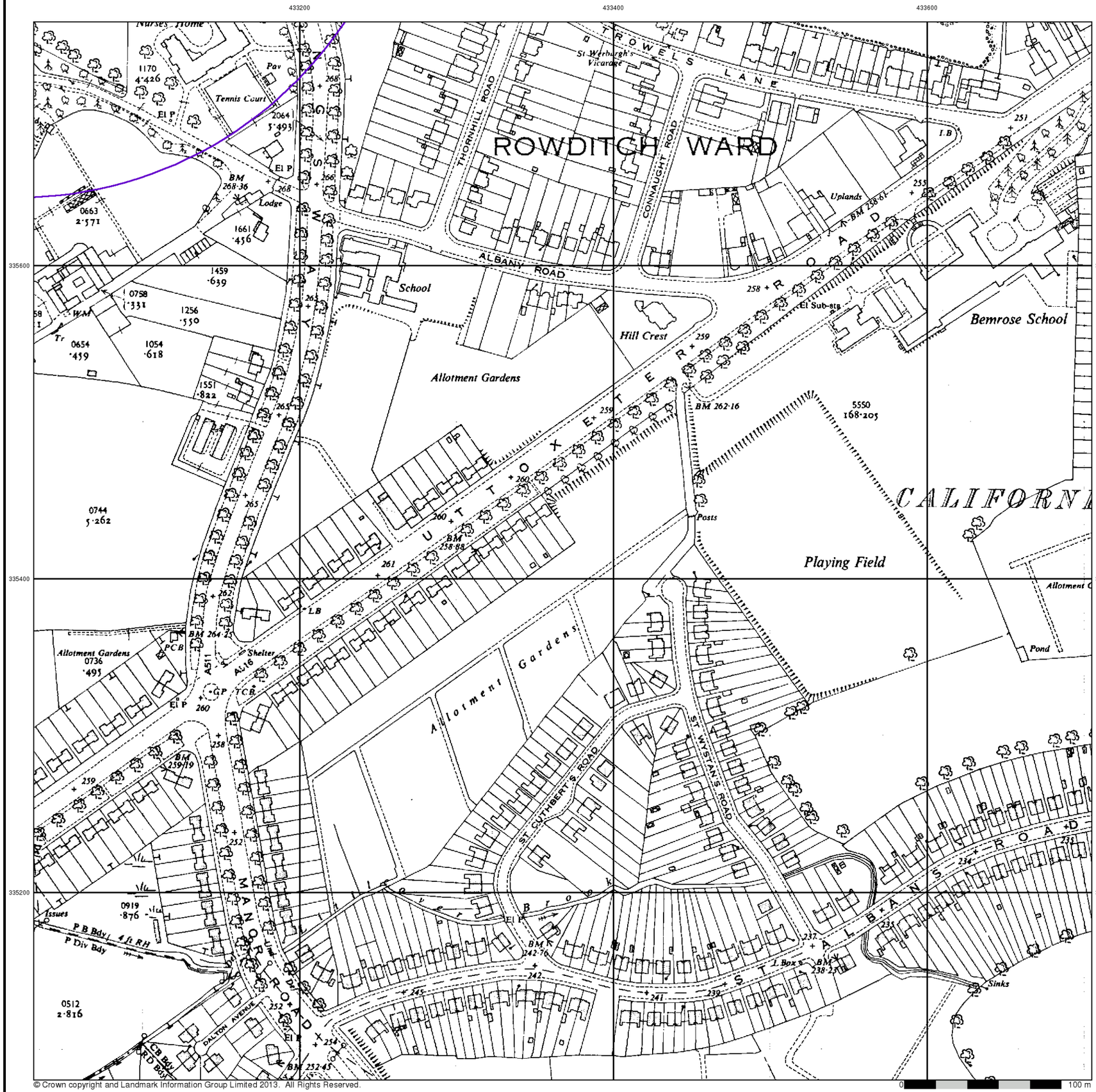
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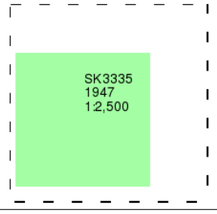
Ordnance Survey Plan

Published 1947

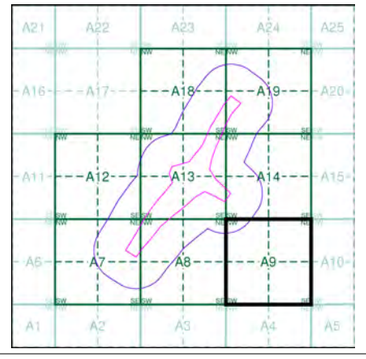
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A9



Order Details

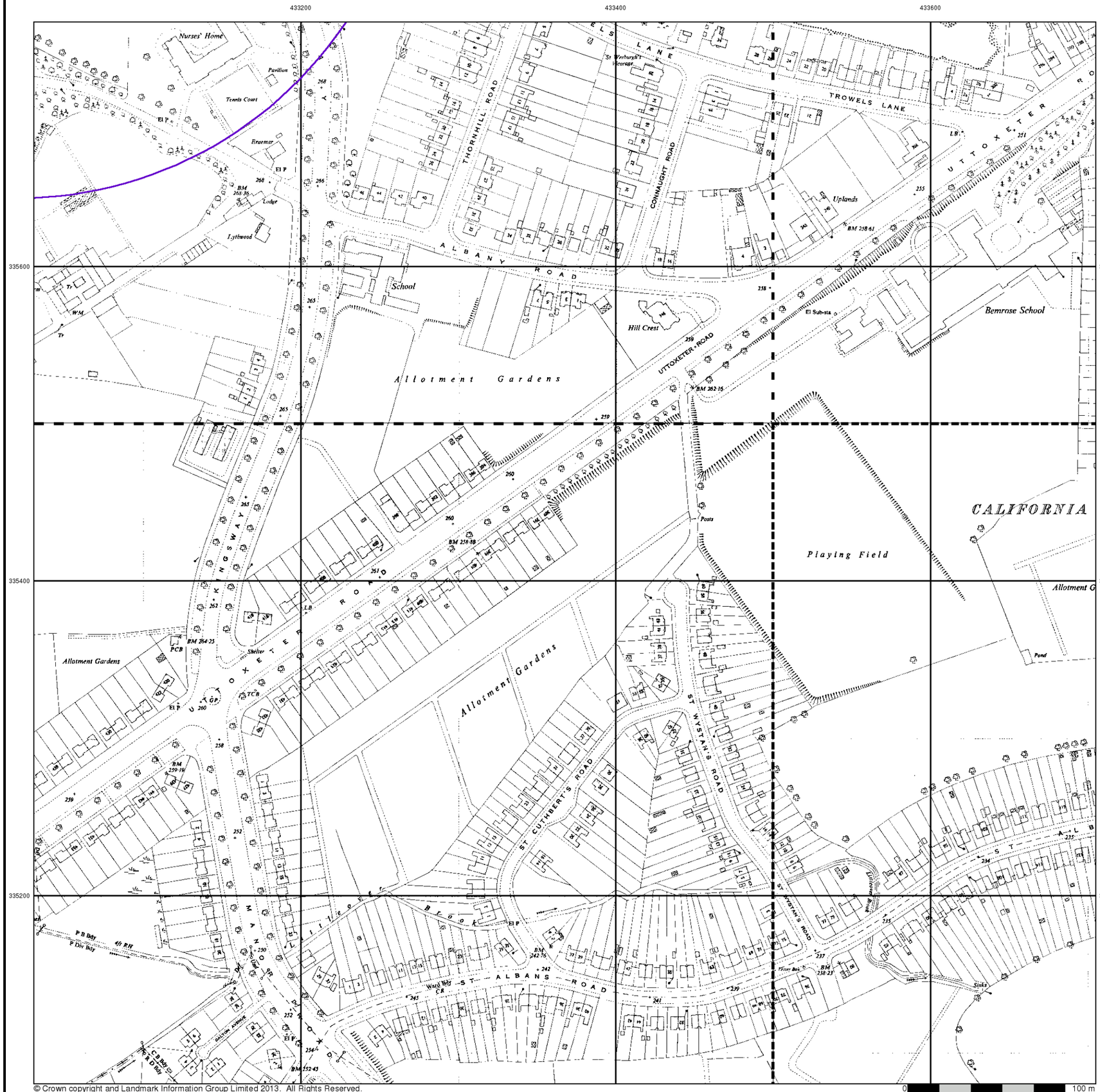
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
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Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Ordnance Survey Plan

Published 1948

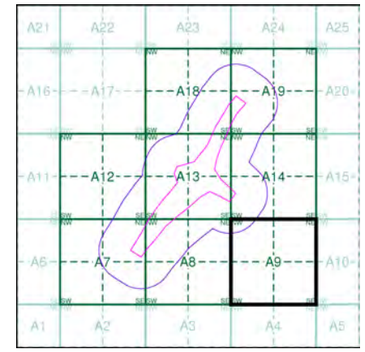
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3335NW 1948 1:1,250	SK3335NE 1948 1:1,250
SK3335SW 1948 1:1,250	SK3335SE 1948 1:1,250

Historical Map - Segment A9



Order Details

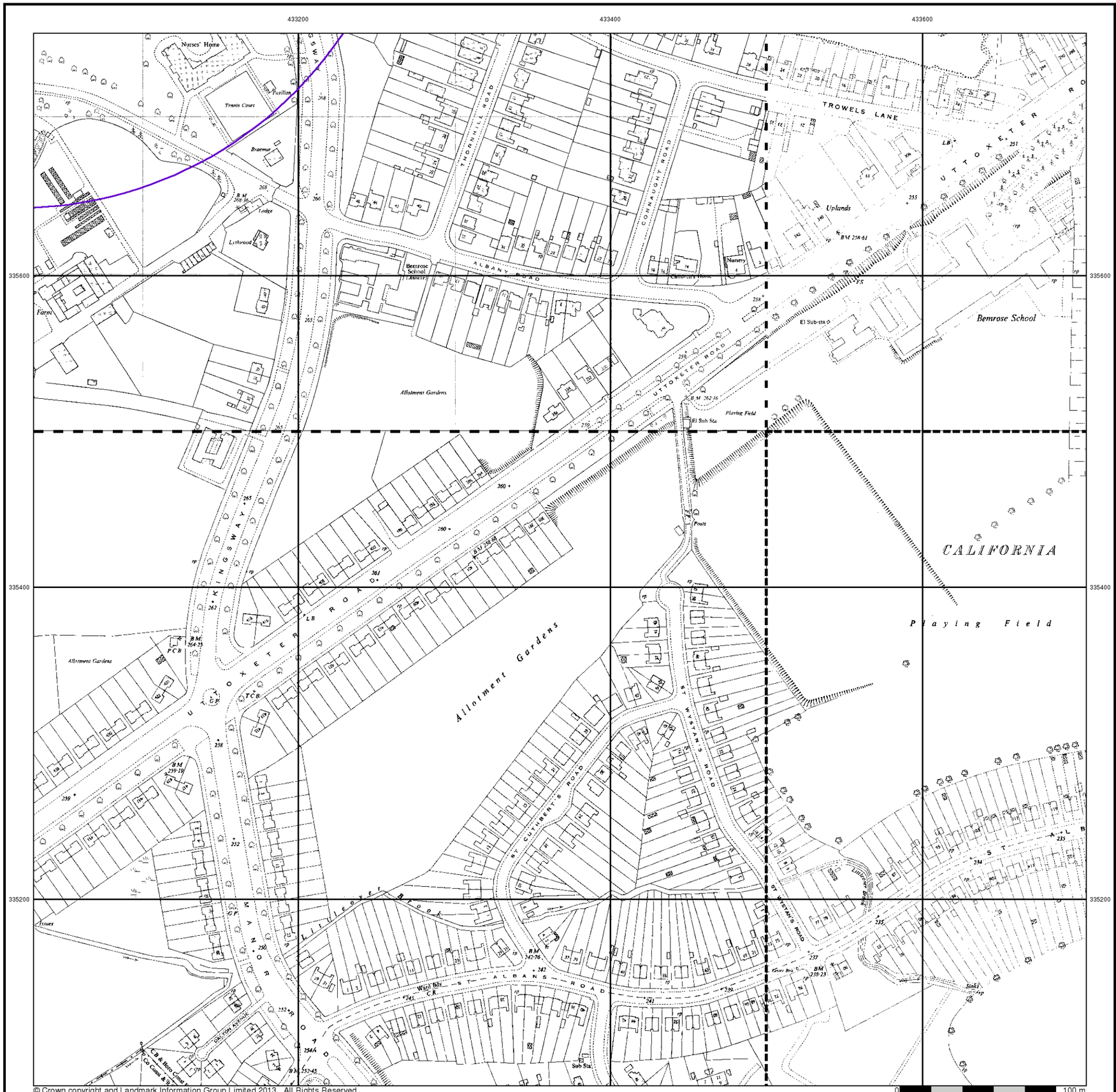
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

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Ordnance Survey Plan

Published 1952 - 1967

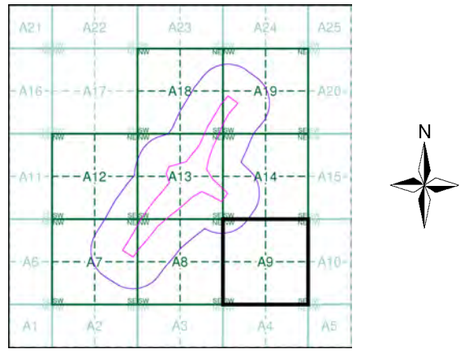
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3335NW 1967 1:1,250	SK3335NE 1952 1:1,250
SK3335SW 1954 1:1,250	SK3335SE 1952 1:1,250

Historical Map - Segment A9



Order Details

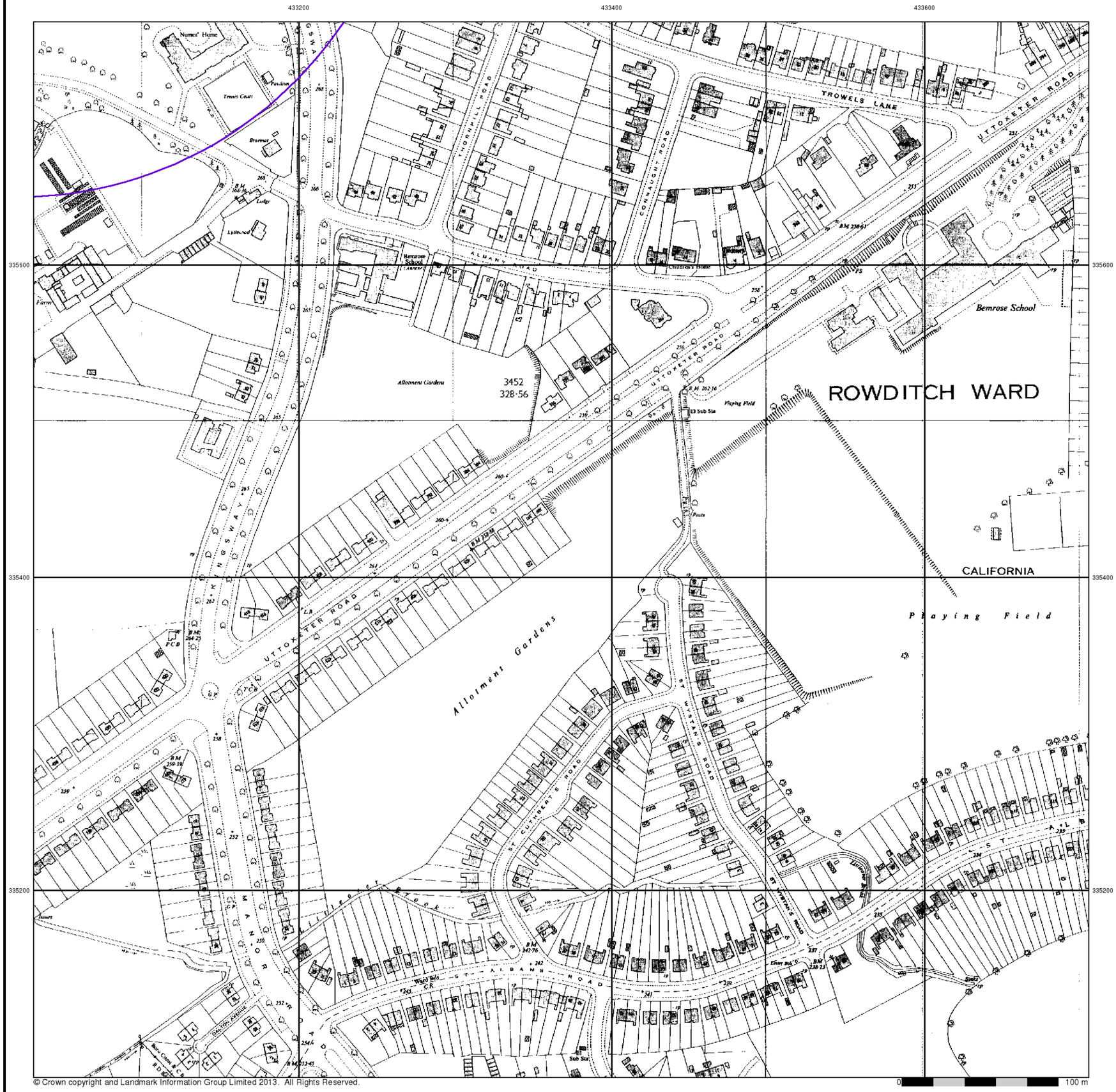
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National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

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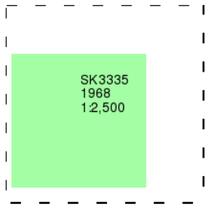
Ordnance Survey Plan

Published 1968

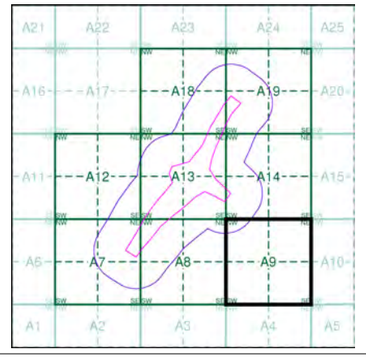
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A9



Order Details

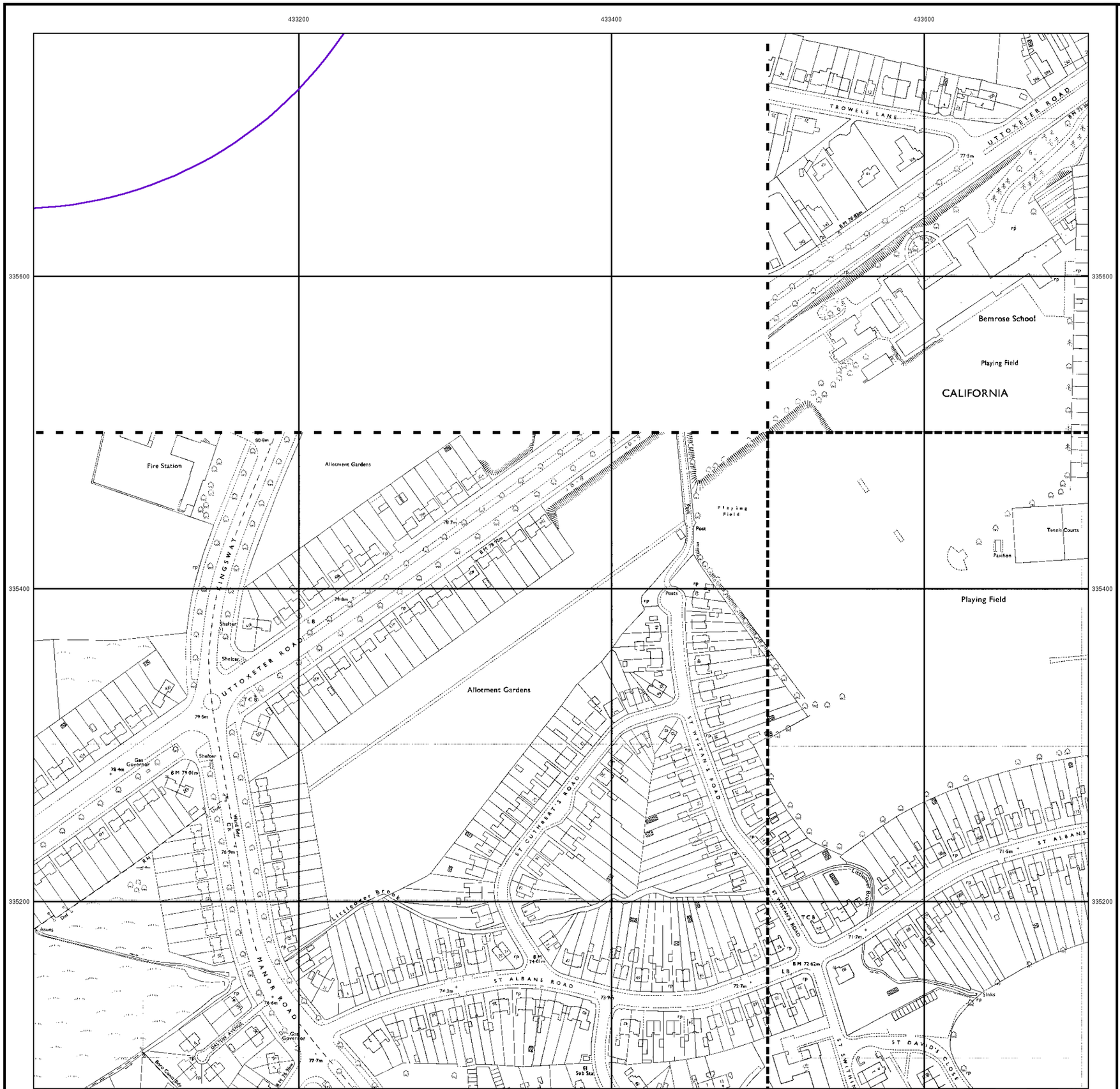
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National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

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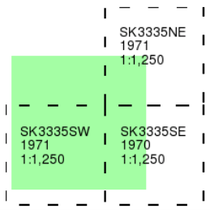
Ordnance Survey Plan

Published 1970 - 1971

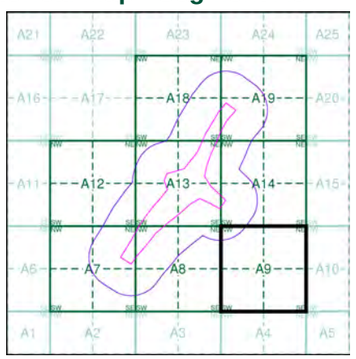
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A9



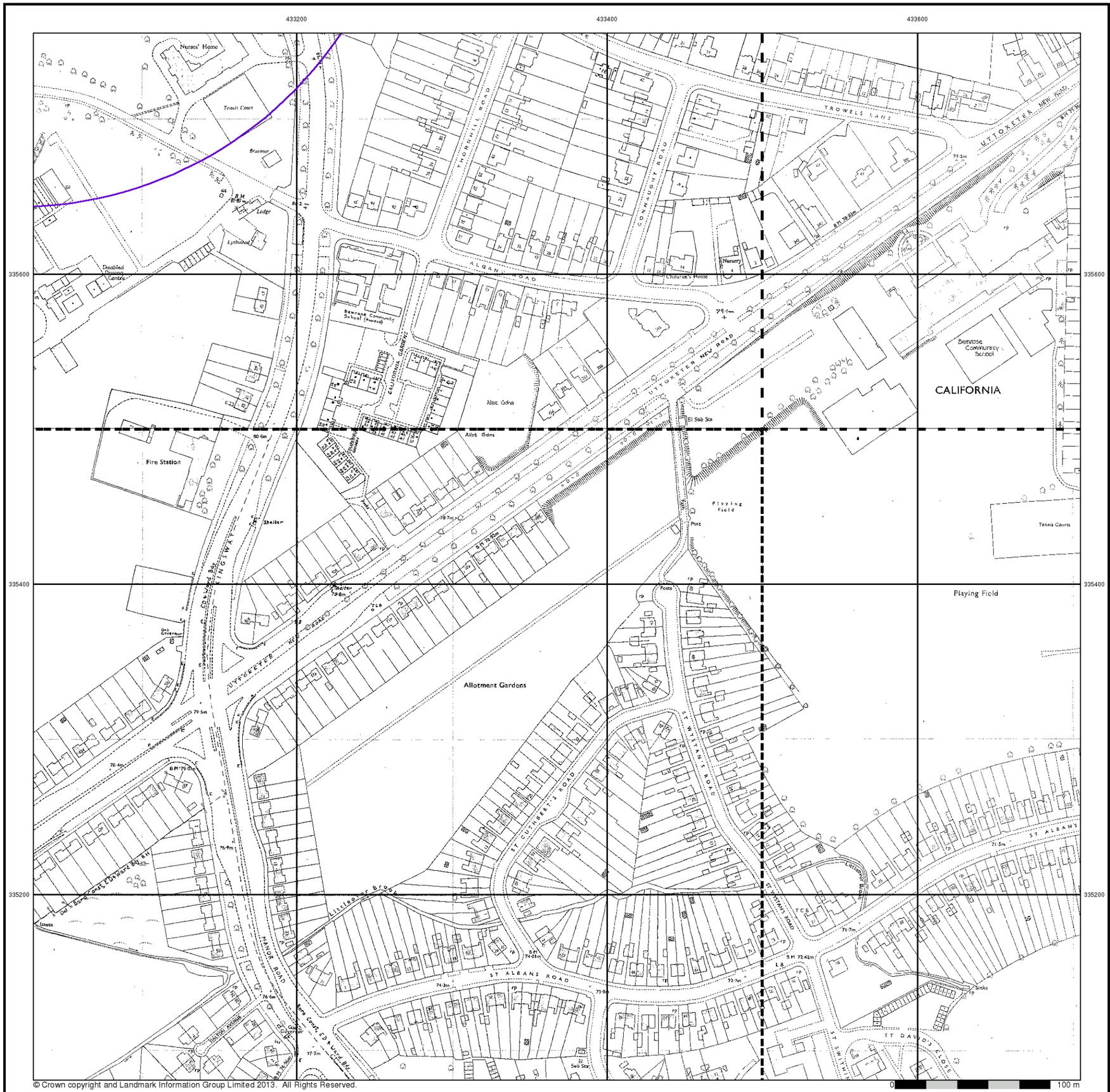
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

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Additional SIMs

Published 1978 - 1990

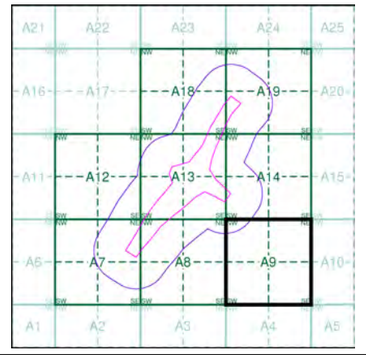
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3335NW 1990 1:1,250	SK3335NE 1990 1:1,250
SK3335SW 1978 1:1,250	SK3335SE 1990 1:1,250

Historical Map - Segment A9



Order Details

Order Number:	60387304_1_1
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Slice:	A
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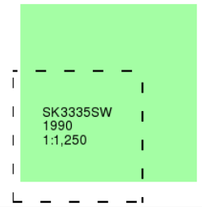
Additional SIMs

Published 1990

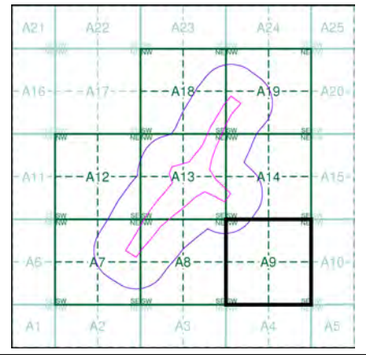
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A9



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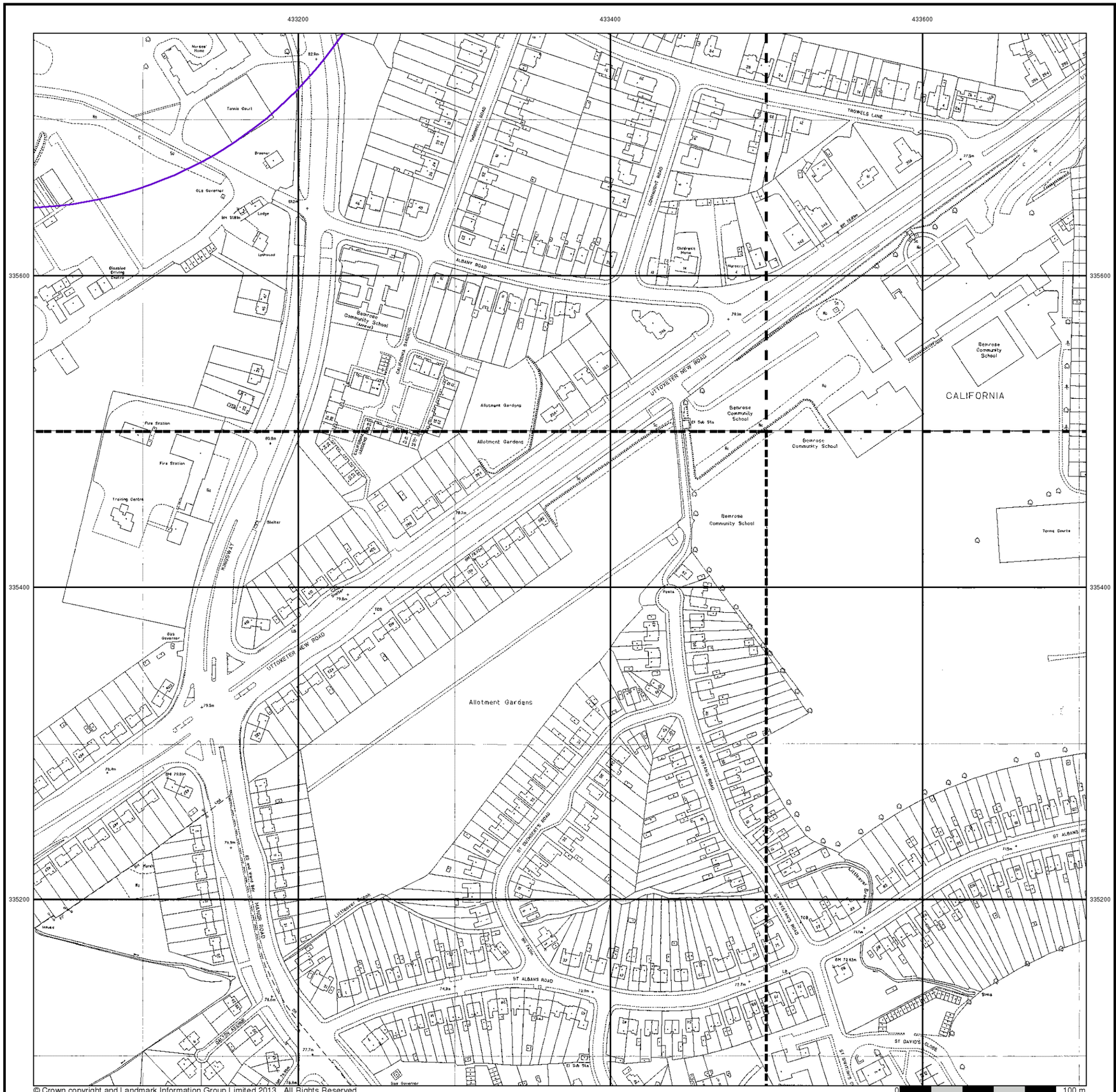
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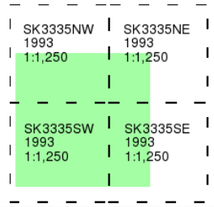
Large-Scale National Grid Data

Published 1993

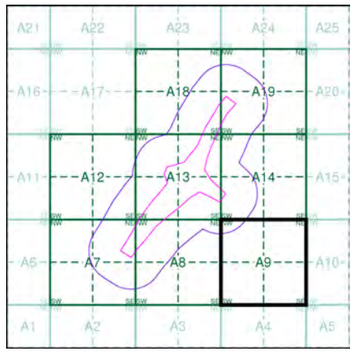
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A9

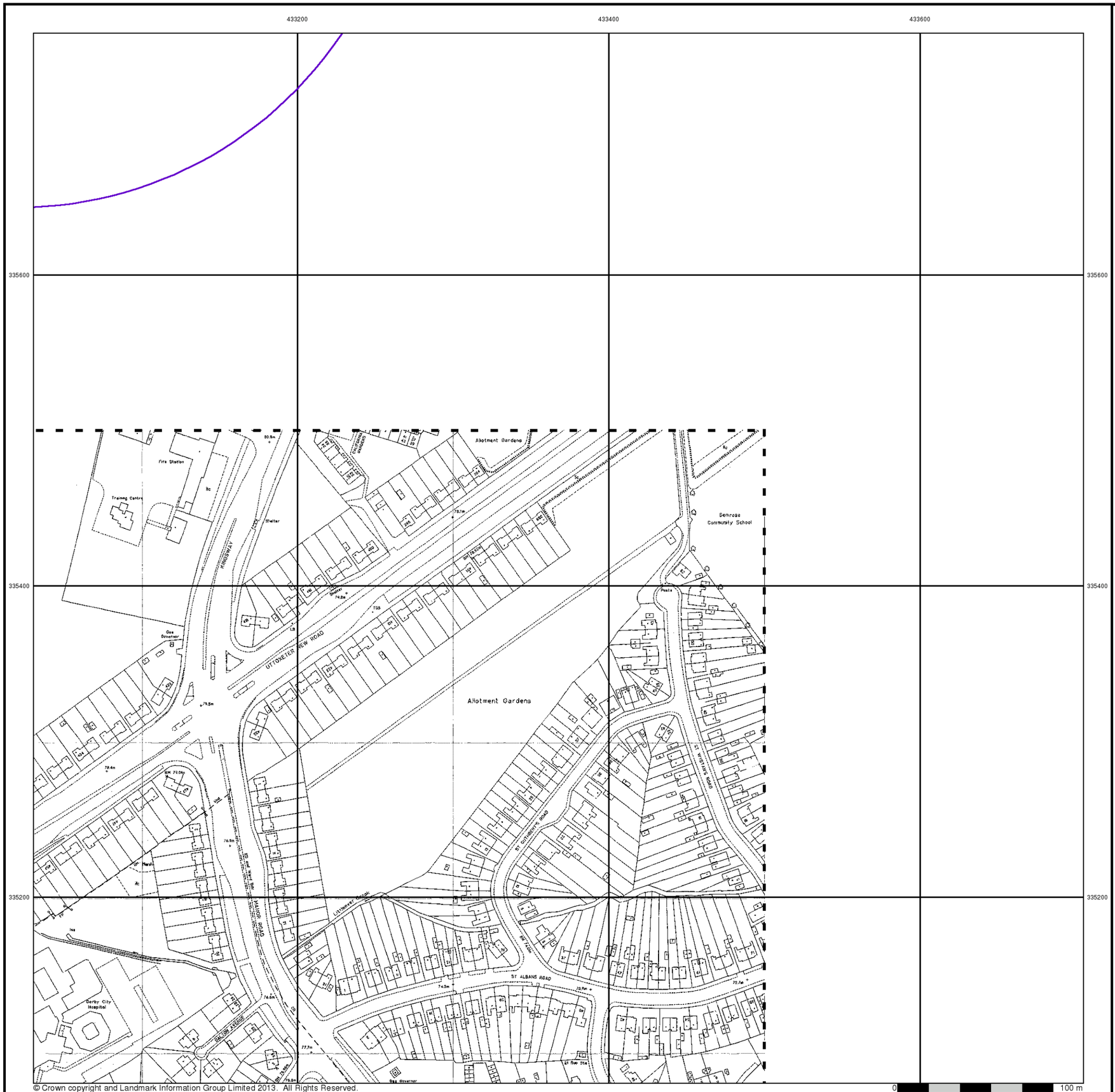


Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

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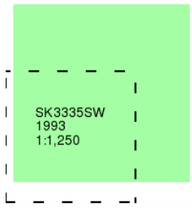
Large-Scale National Grid Data

Published 1993

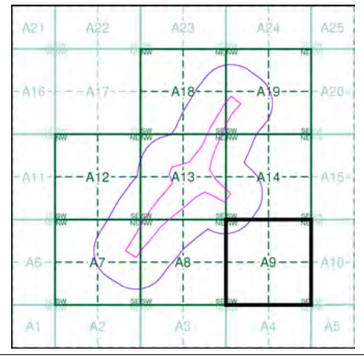
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A9



Order Details

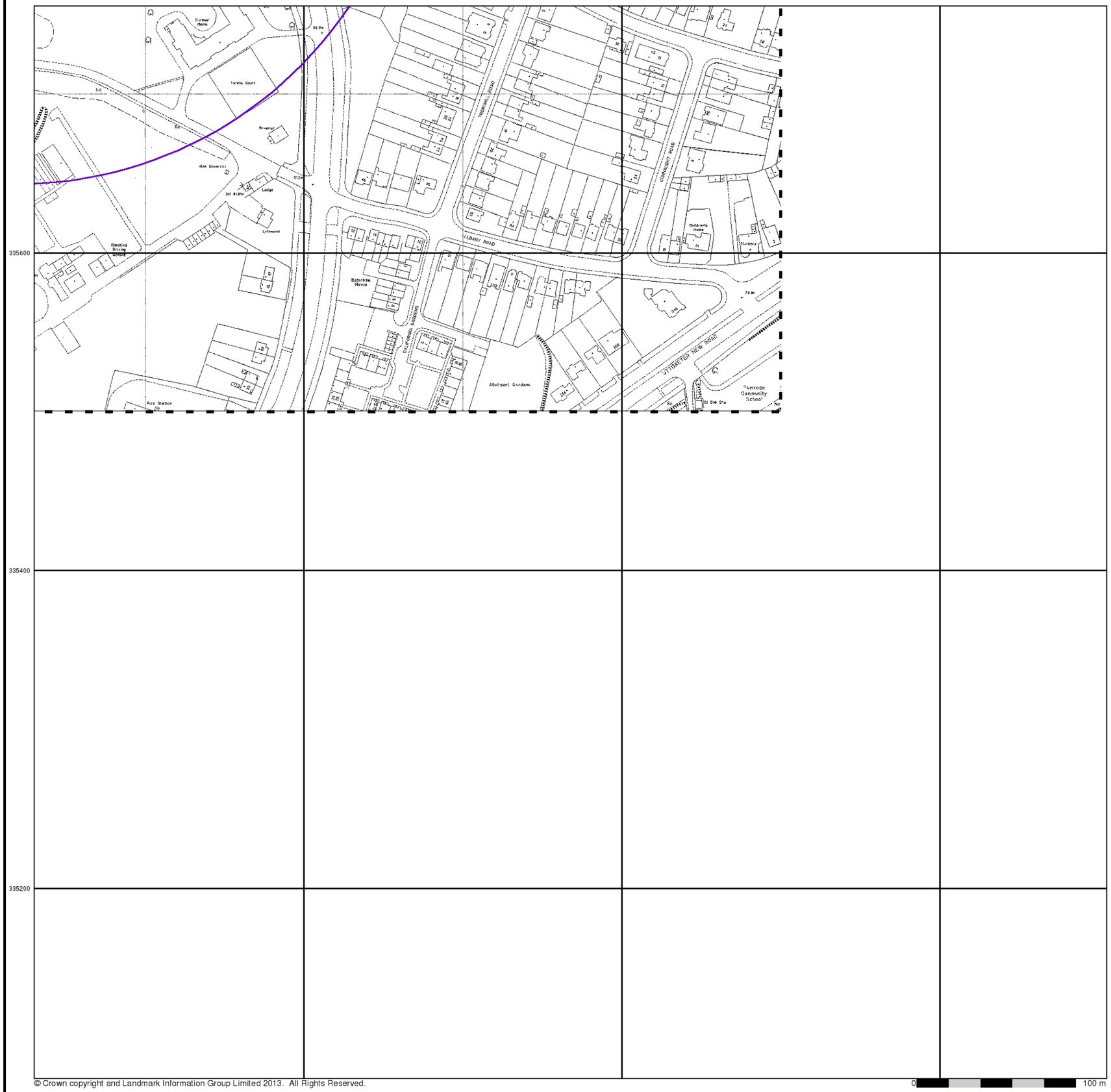
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0 100 m

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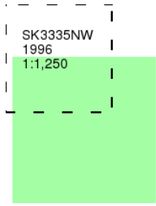
Large-Scale National Grid Data

Published 1996

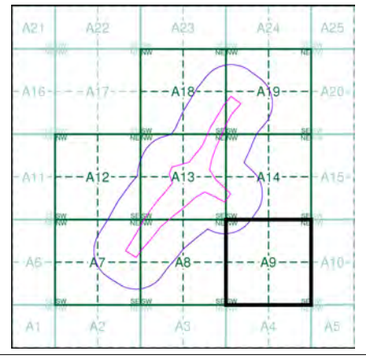
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A9



Order Details

Order Number:	60387304_1_1
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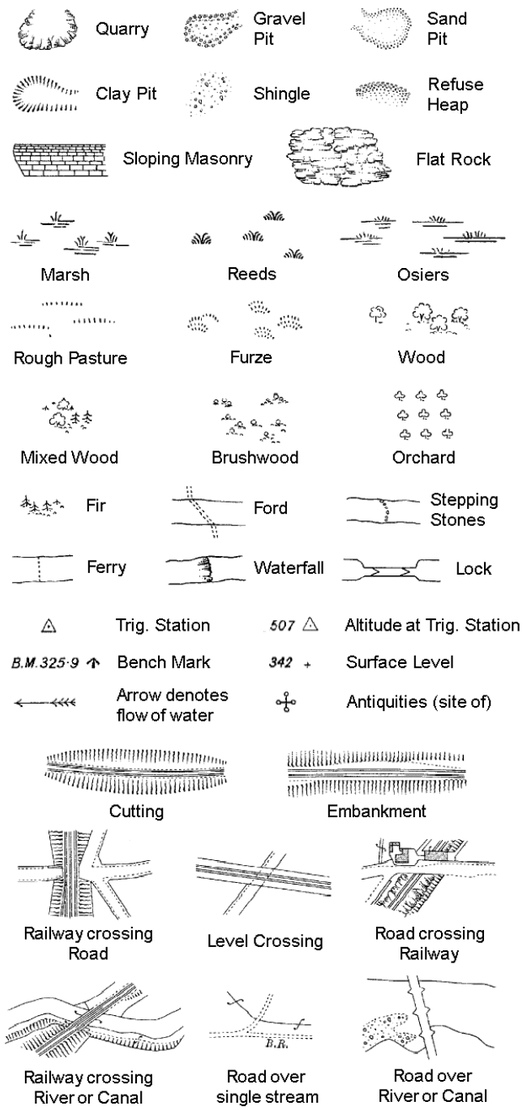
Site at, Derby, City of Derby

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Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)

County & Civil Parish Boundary

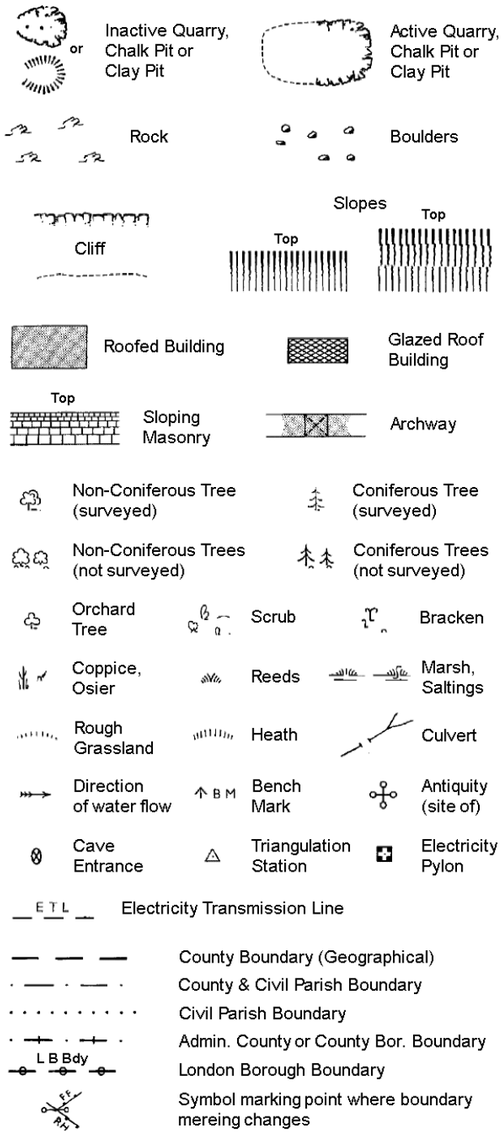
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

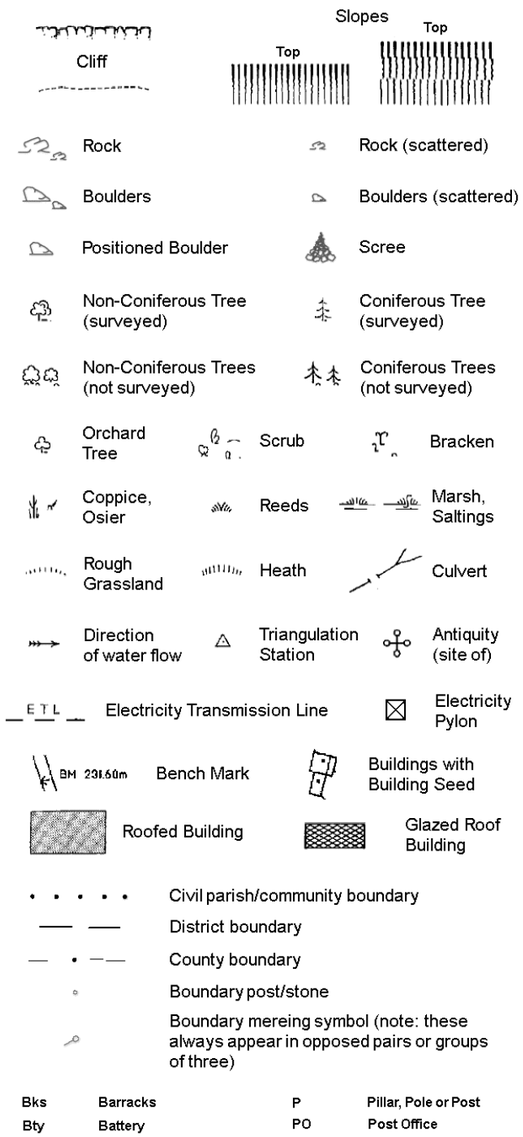
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

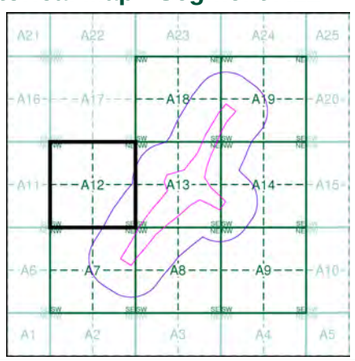
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1882 - 1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1914	4
Derbyshire	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1955 - 1968	6
Ordnance Survey Plan	1:1,250	1955 - 1966	7
Ordnance Survey Plan	1:1,250	1964 - 1976	8
Ordnance Survey Plan	1:2,500	1965 - 1968	9
Ordnance Survey Plan	1:1,250	1971	10
Supply of Unpublished Survey Information	1:1,250	1976	11
Additional SIMs	1:1,250	1986 - 1990	12
Additional SIMs	1:1,250	1990	13
Large-Scale National Grid Data	1:1,250	1993	14

Historical Map - Segment A12



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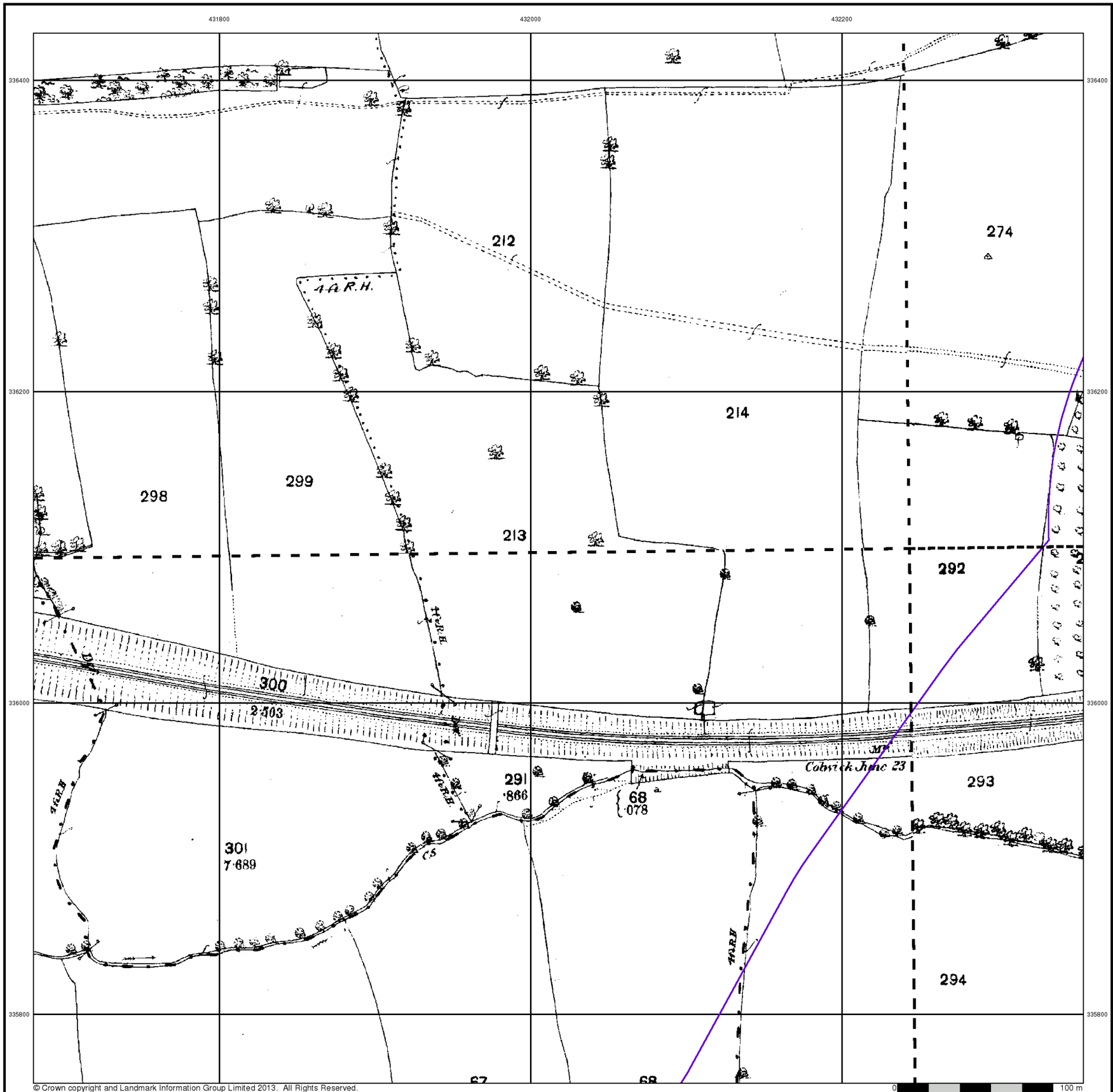
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National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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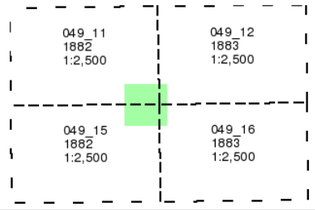
Derbyshire

Published 1882 - 1883

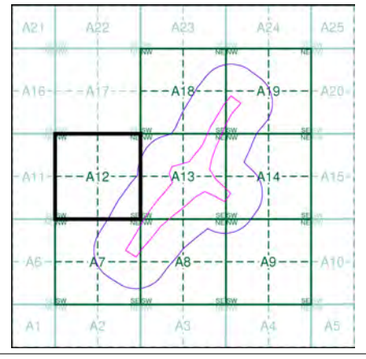
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

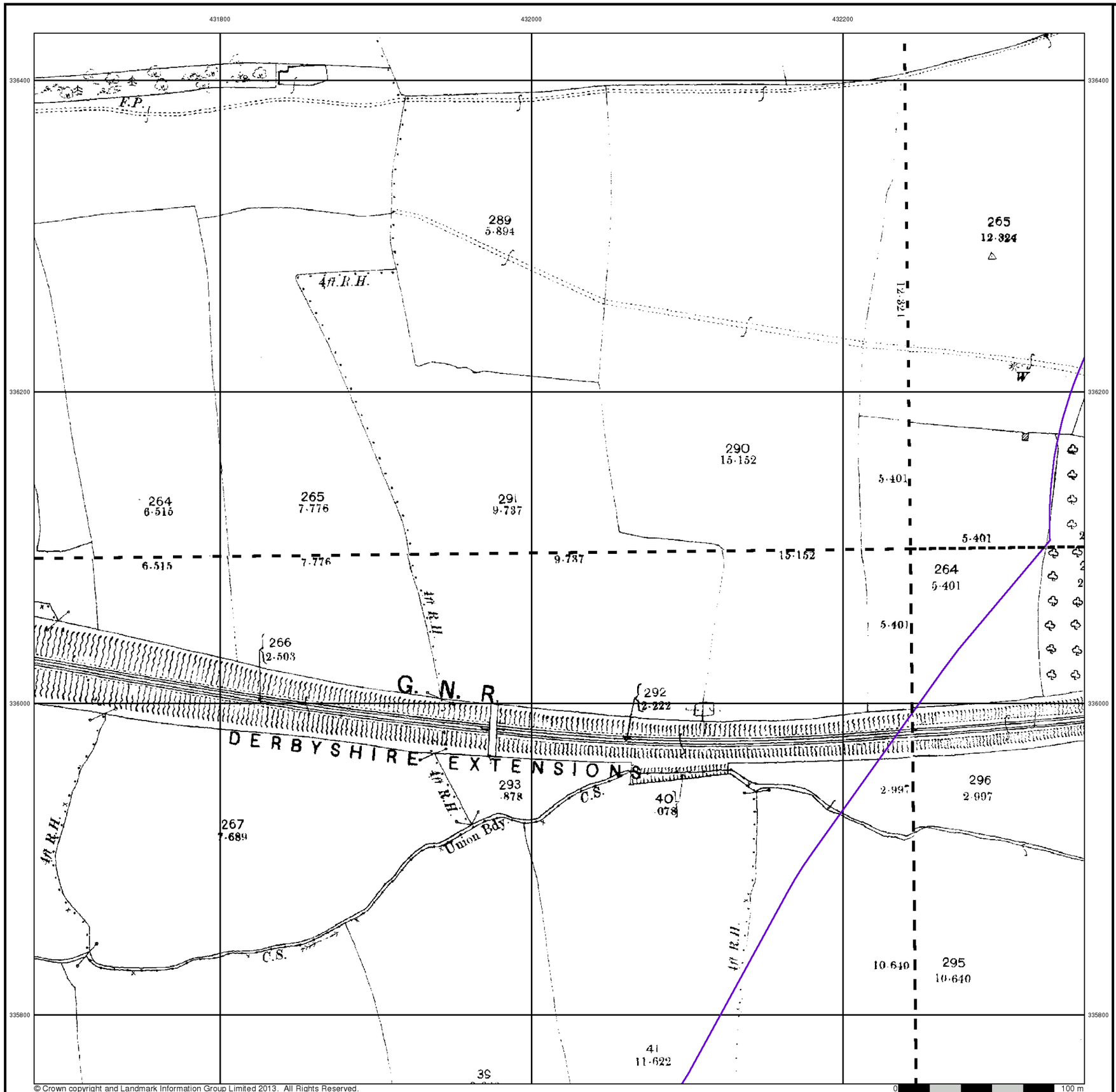
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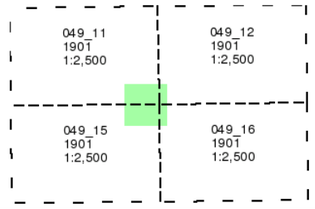
Derbyshire

Published 1901

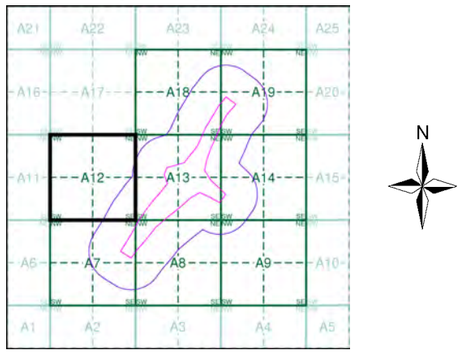
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



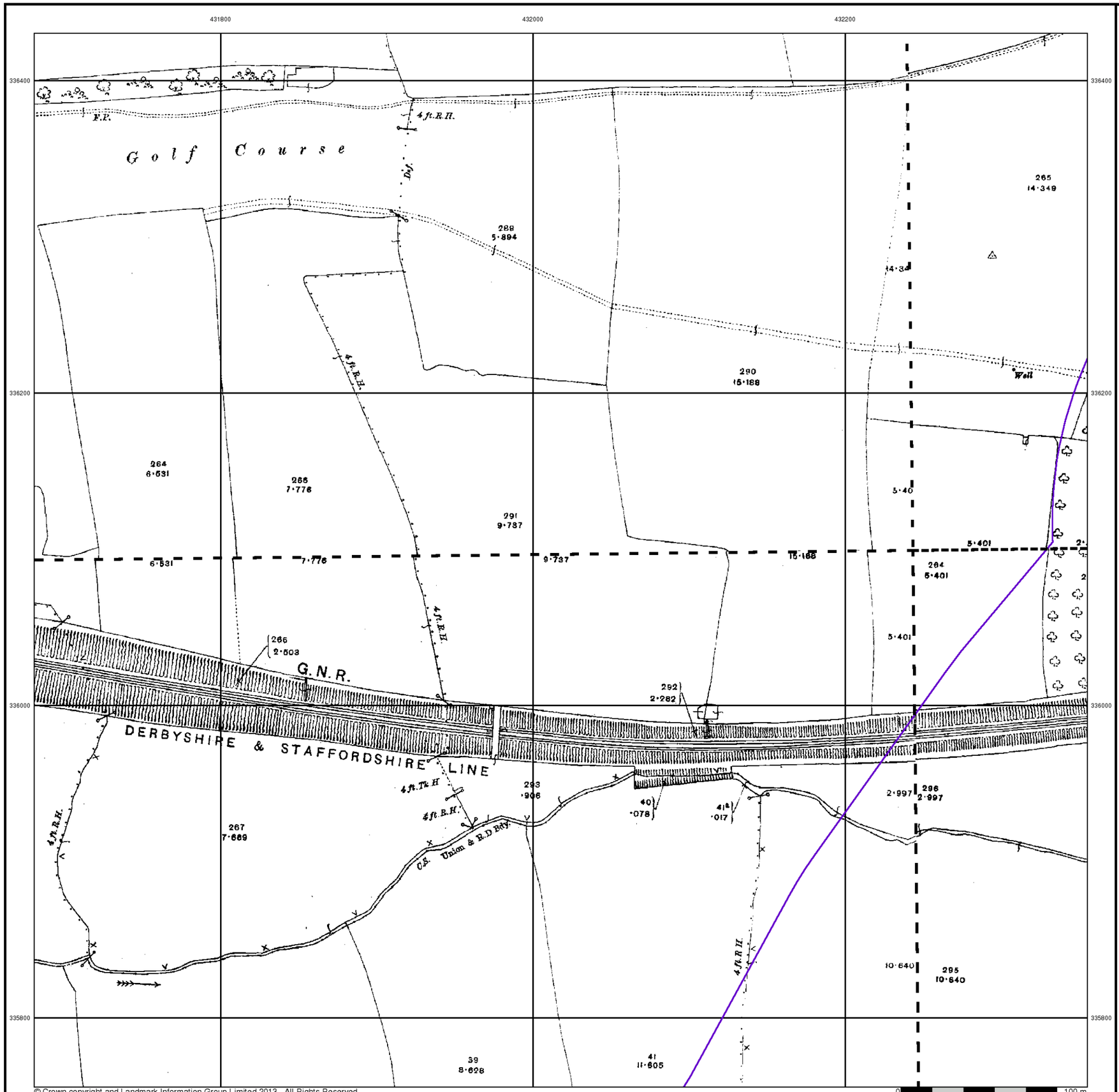
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National Grid Reference:	432740, 336060
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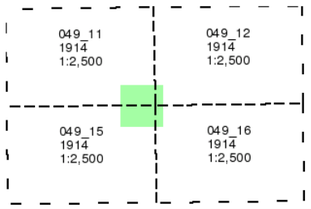
Derbyshire

Published 1914

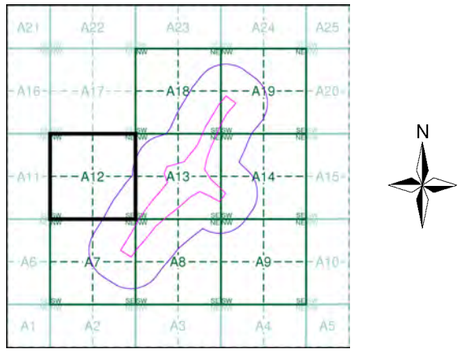
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



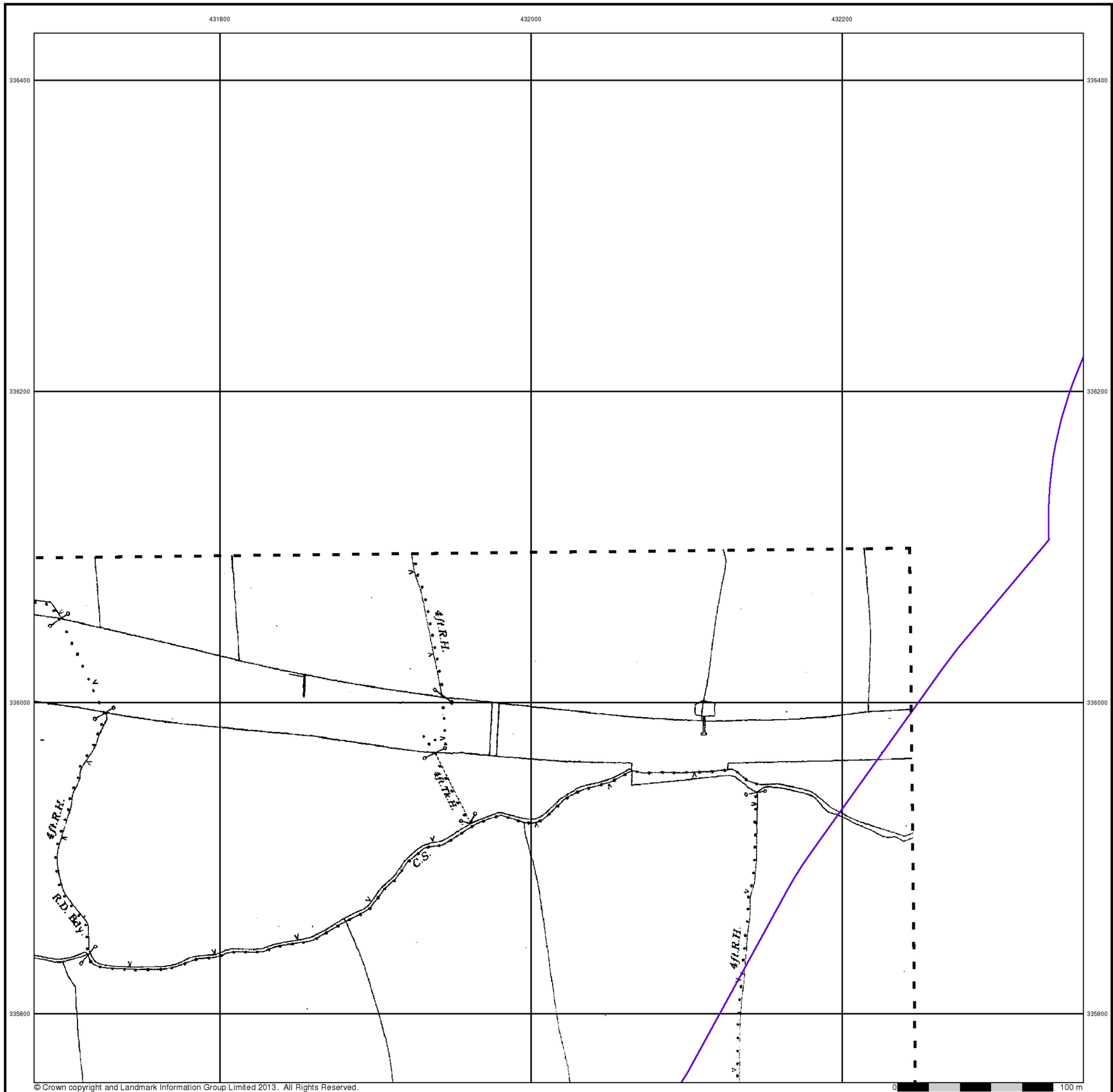
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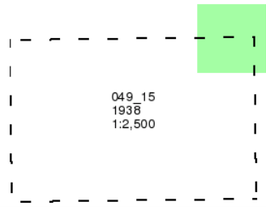
Derbyshire

Published 1938

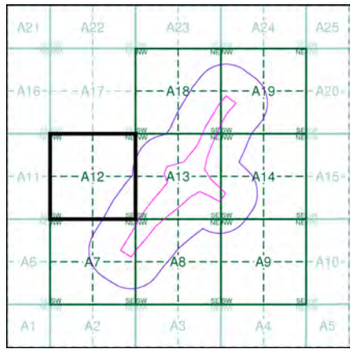
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



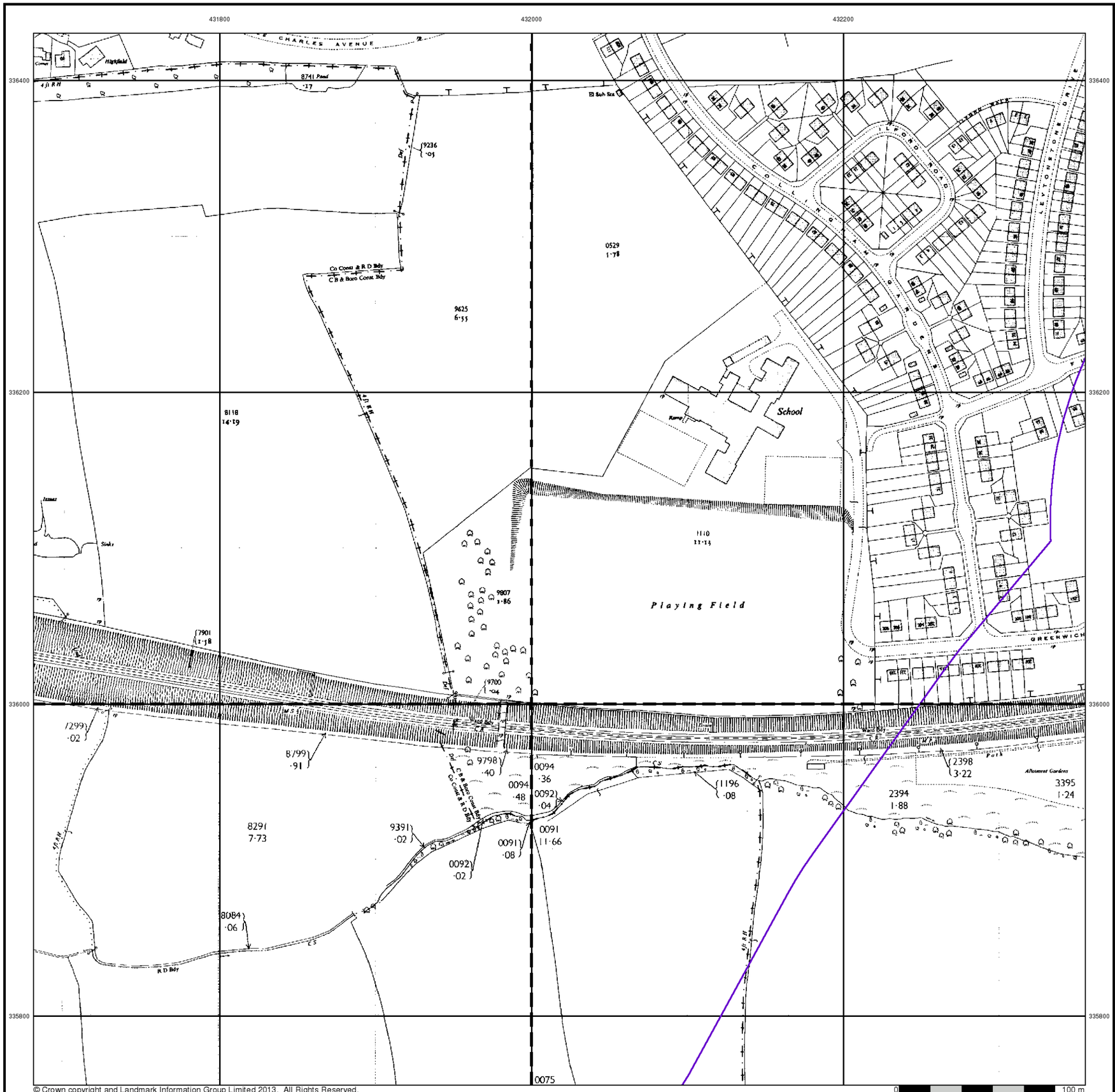
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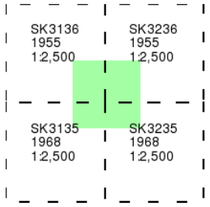
Ordnance Survey Plan

Published 1955 - 1968

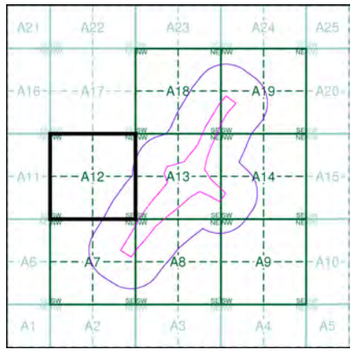
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A12

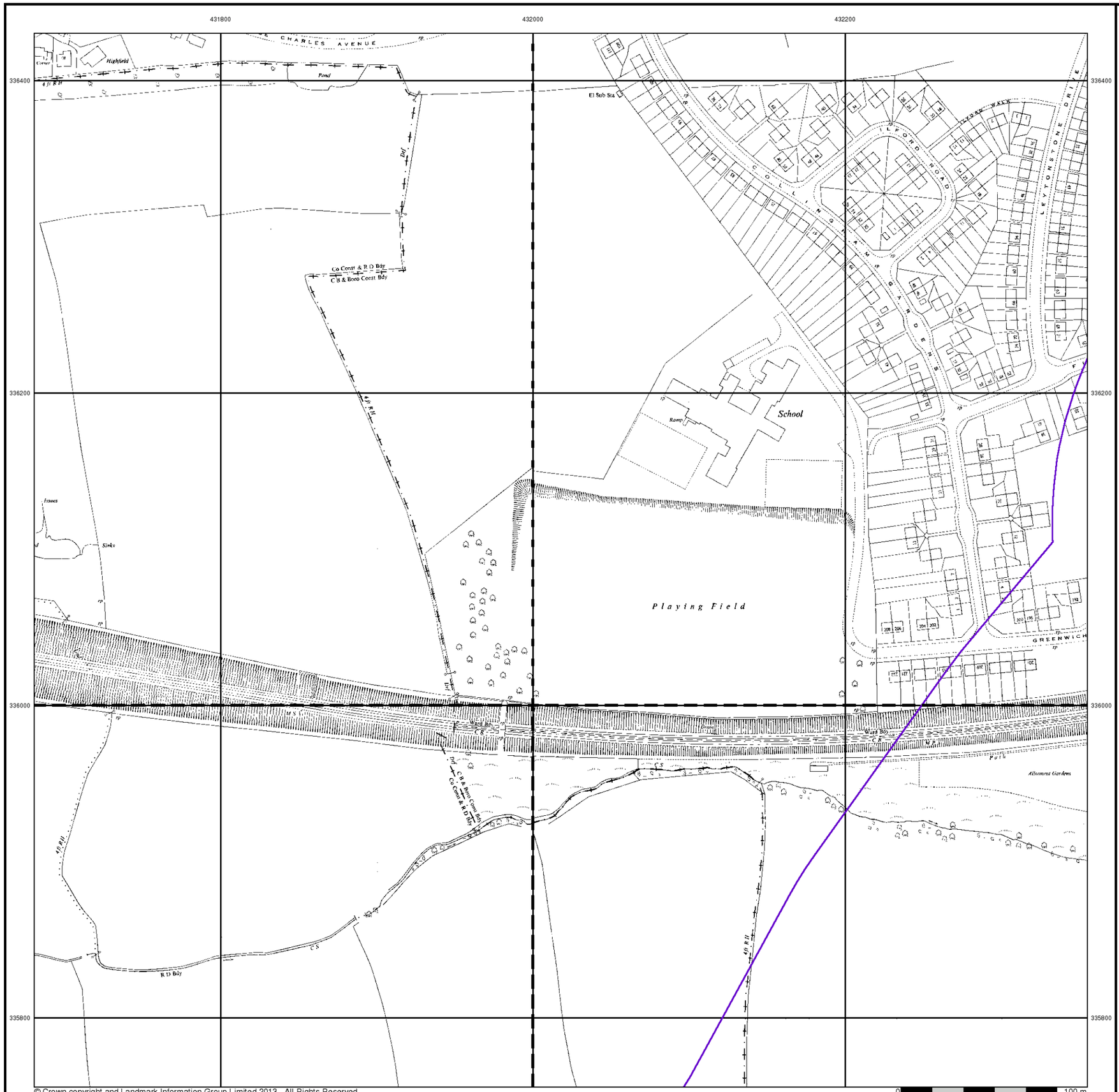


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Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby



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Ordnance Survey Plan

Published 1955 - 1966

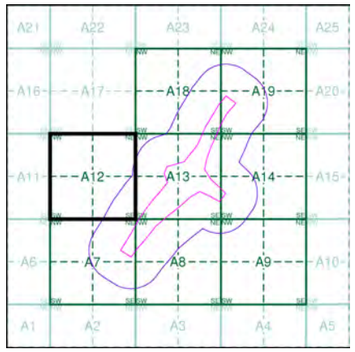
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3136SE 1955 1:1,250	SK3236SW 1955 1:1,250
SK3135NE 1966 1:1,250	SK3235NW 1966 1:1,250

Historical Map - Segment A12



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
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Ordnance Survey Plan

Published 1964 - 1976

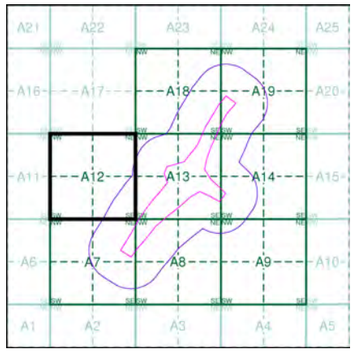
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3136SE 1964 1:1,250
SK3236SW 1964 1:1,250
SK3235NW 1976 1:1,250

Historical Map - Segment A12



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
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Site Area (Ha):	24.66
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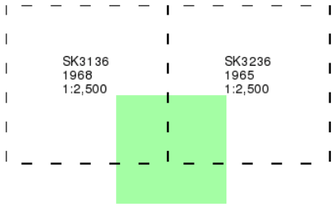
Ordnance Survey Plan

Published 1965 - 1968

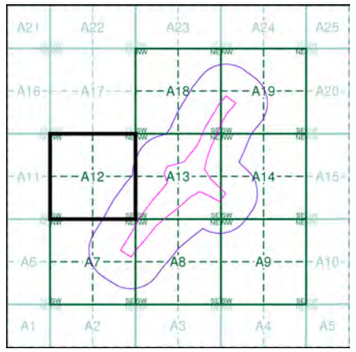
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



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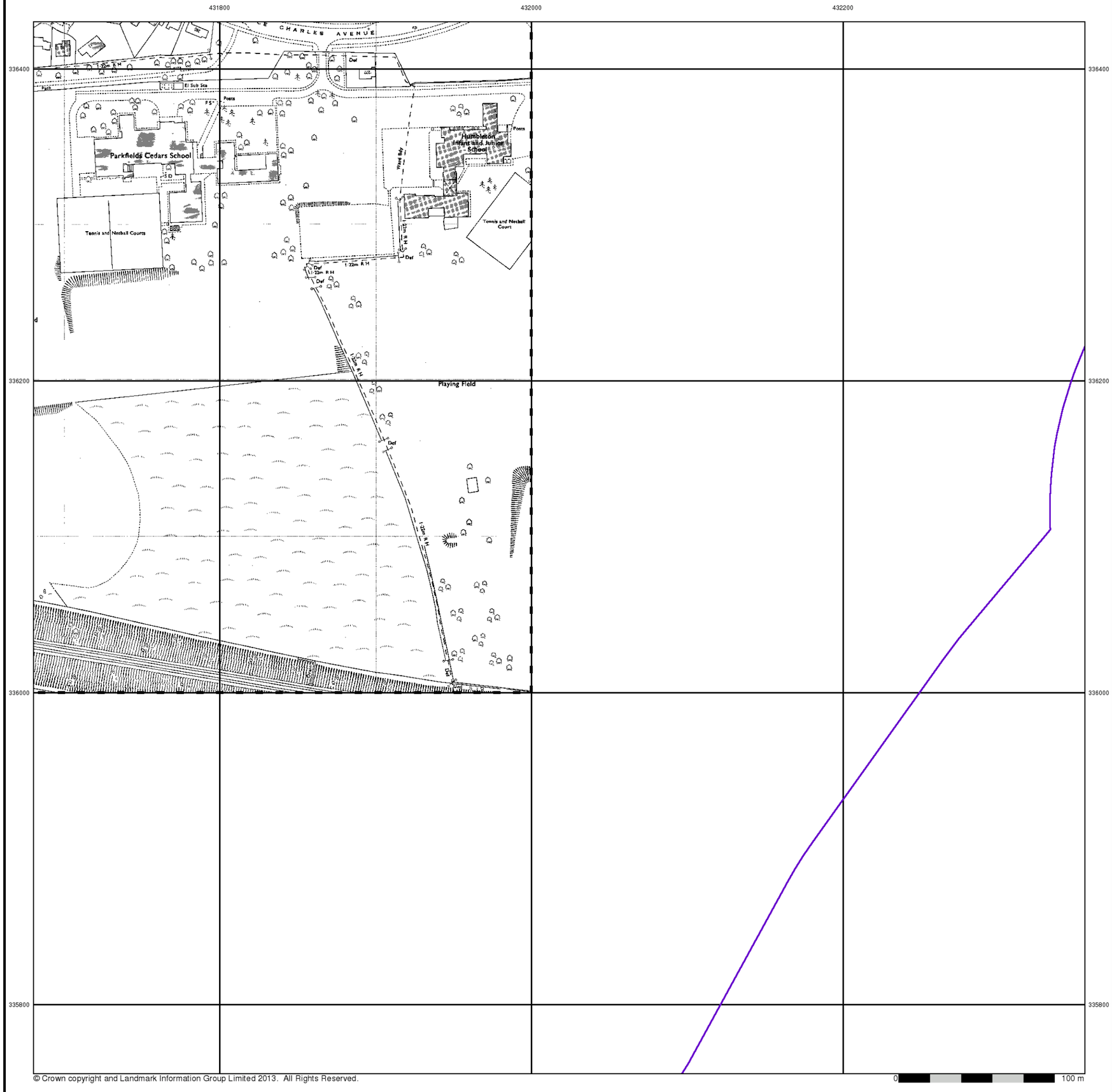
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Ordnance Survey Plan

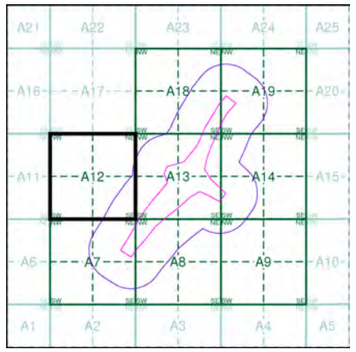
Published 1971

Source map scale - 1:1,250

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Map Name(s) and Date(s)

Historical Map - Segment A12



Order Details

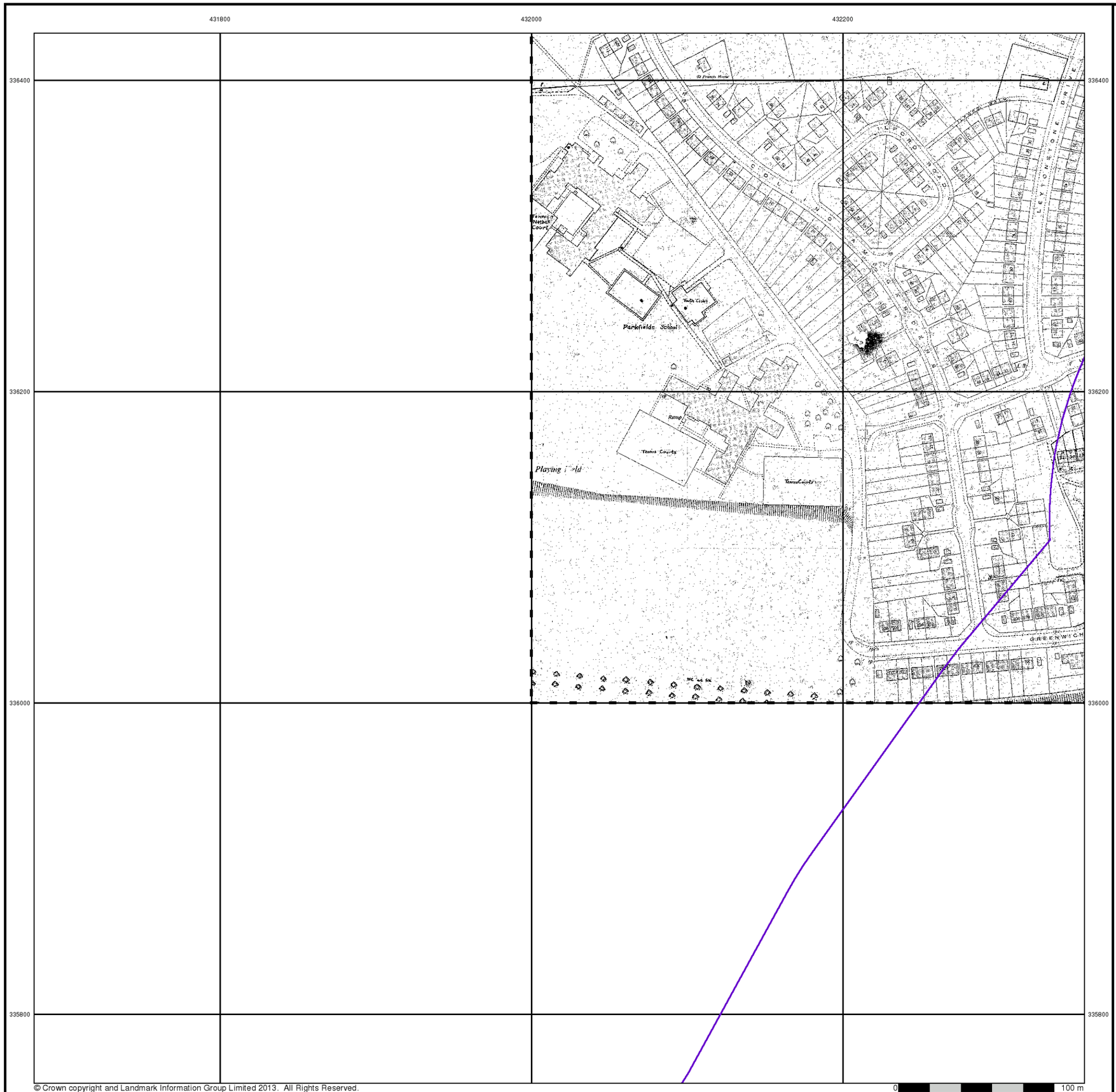
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Supply of Unpublished Survey Information

Published 1976

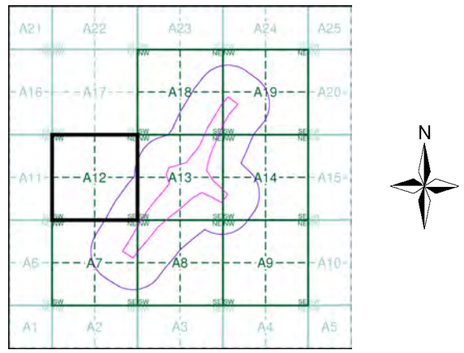
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3236SW
1976
1:1,250

Historical Map - Segment A12



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
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Search Buffer (m):	250

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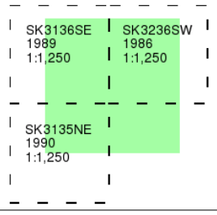
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Published 1986 - 1990

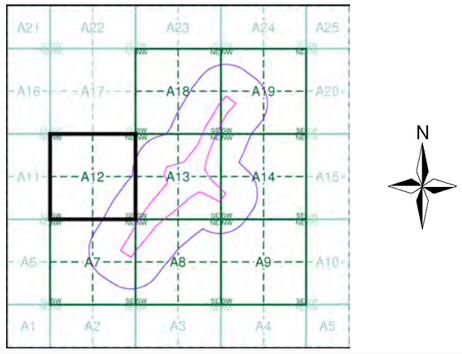
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A12



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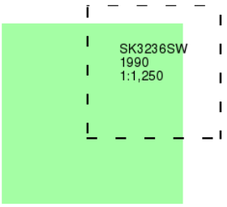
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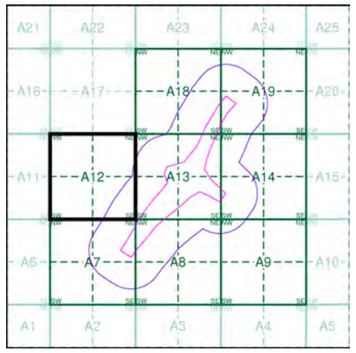
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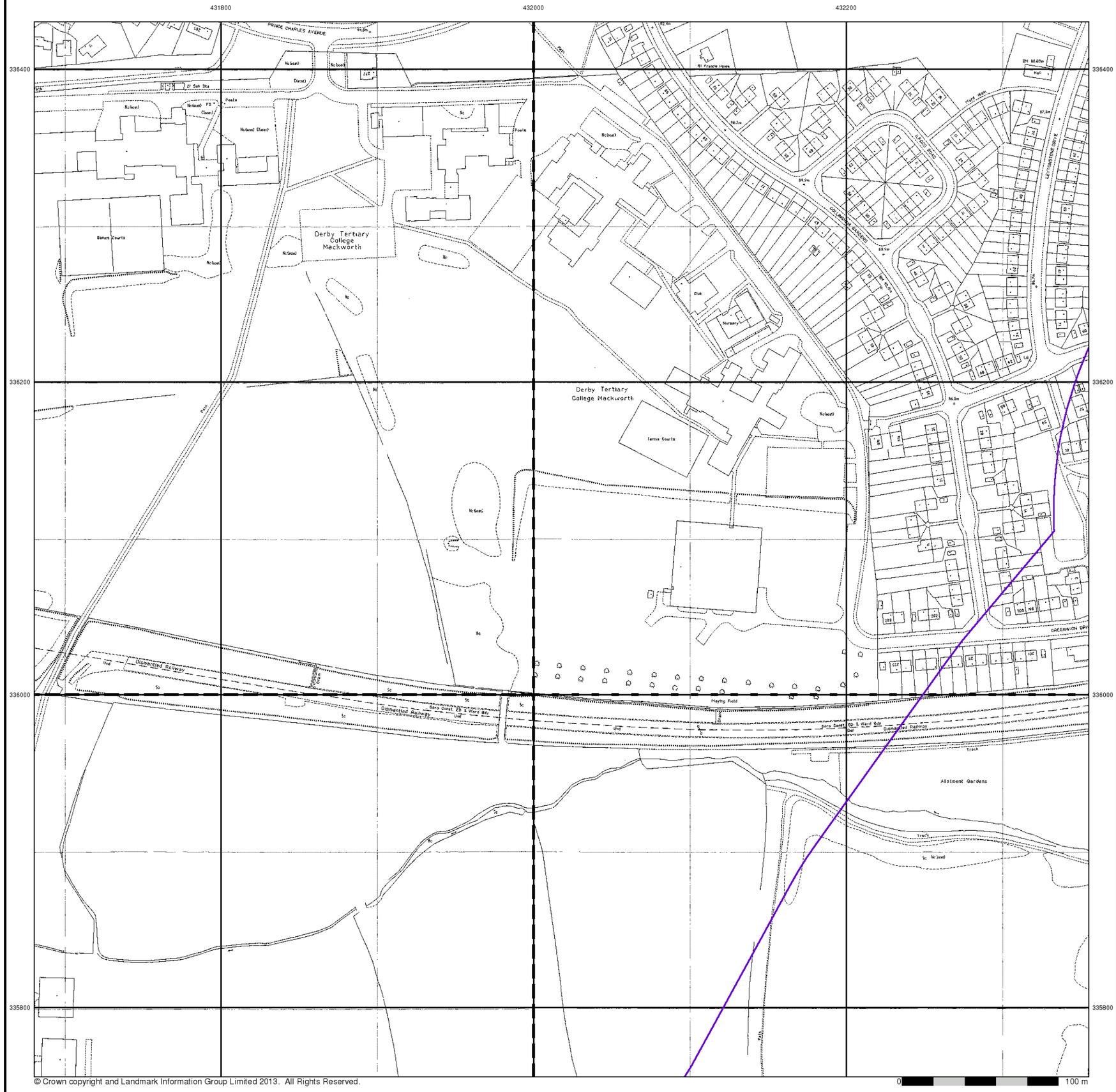
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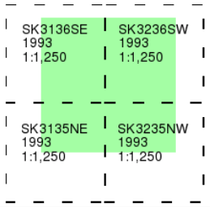
Large-Scale National Grid Data

Published 1993

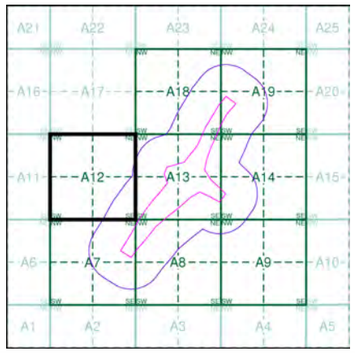
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

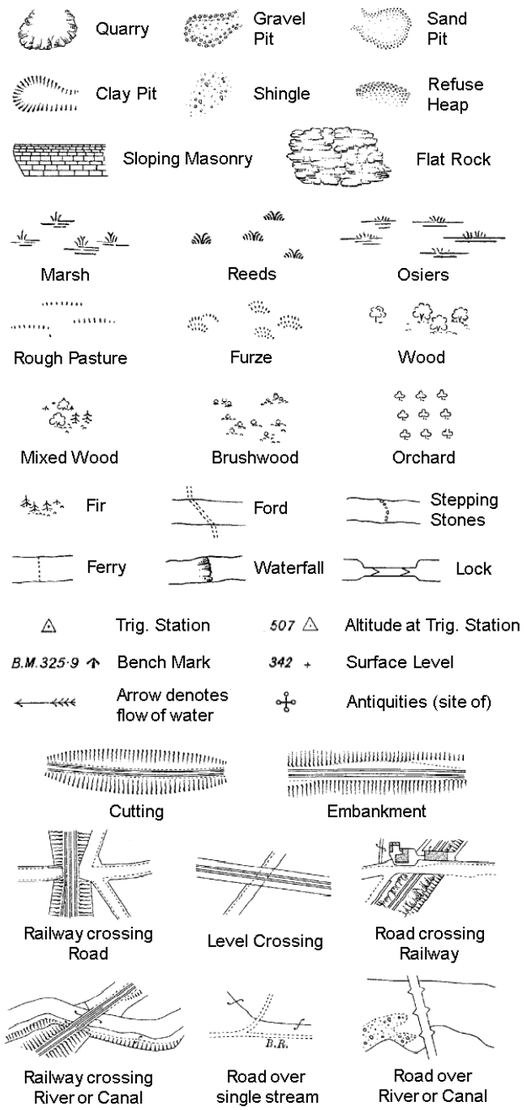
Site at, Derby, City of Derby

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Historical Mapping Legends

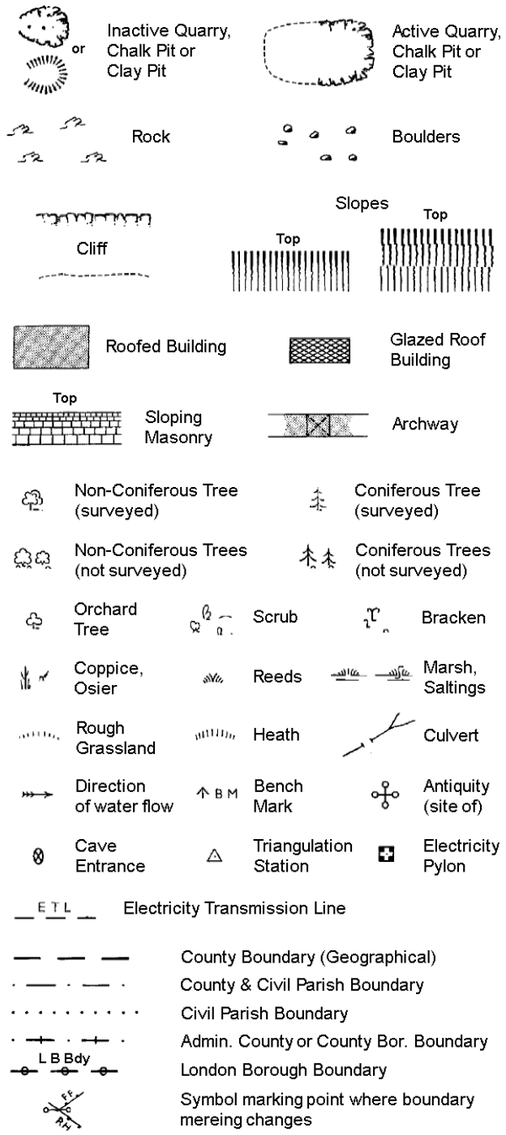
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

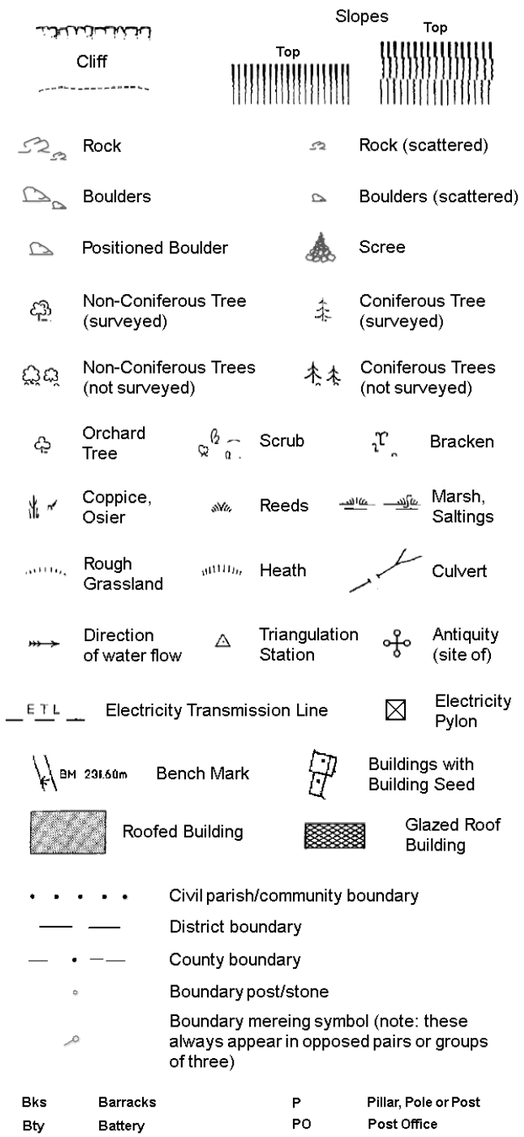
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

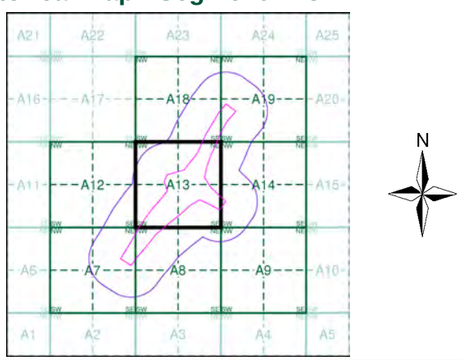
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1914	4
Ordnance Survey Plan	1:2,500	1947 - 1968	5
Ordnance Survey Plan	1:1,250	1948 - 1966	6
Ordnance Survey Plan	1:1,250	1953 - 1976	7
Ordnance Survey Plan	1:1,250	1958 - 1976	8
Ordnance Survey Plan	1:2,500	1959 - 1968	9
Ordnance Survey Plan	1:2,500	1965	10
Ordnance Survey Plan	1:1,250	1972	11
Supply of Unpublished Survey Information	1:1,250	1975 - 1976	12
Additional SIMs	1:1,250	1986 - 1990	13
Additional SIMs	1:1,250	1990 - 1992	14
Large-Scale National Grid Data	1:1,250	1993	15
Large-Scale National Grid Data	1:1,250	1994	16
Large-Scale National Grid Data	1:1,250	1996	17

Historical Map - Segment A13



Order Details

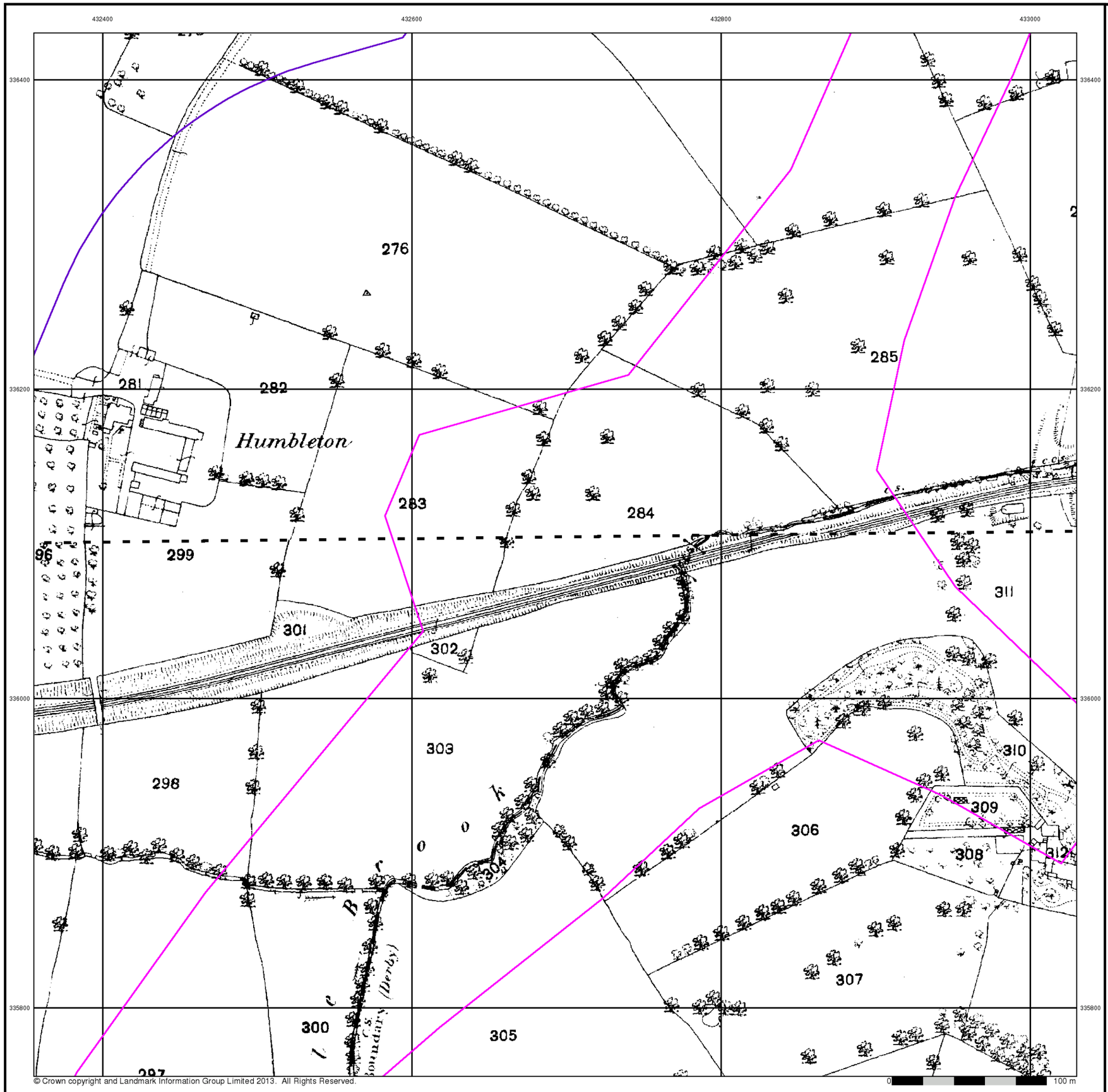
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Derbyshire

Published 1883

Source map scale - 1:2,500

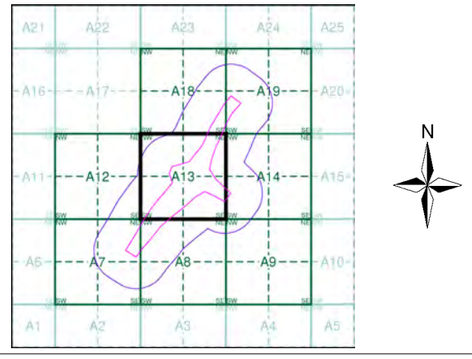
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

049_12
1883
1:2,500

049_16
1883
1:2,500

Historical Map - Segment A13



Order Details

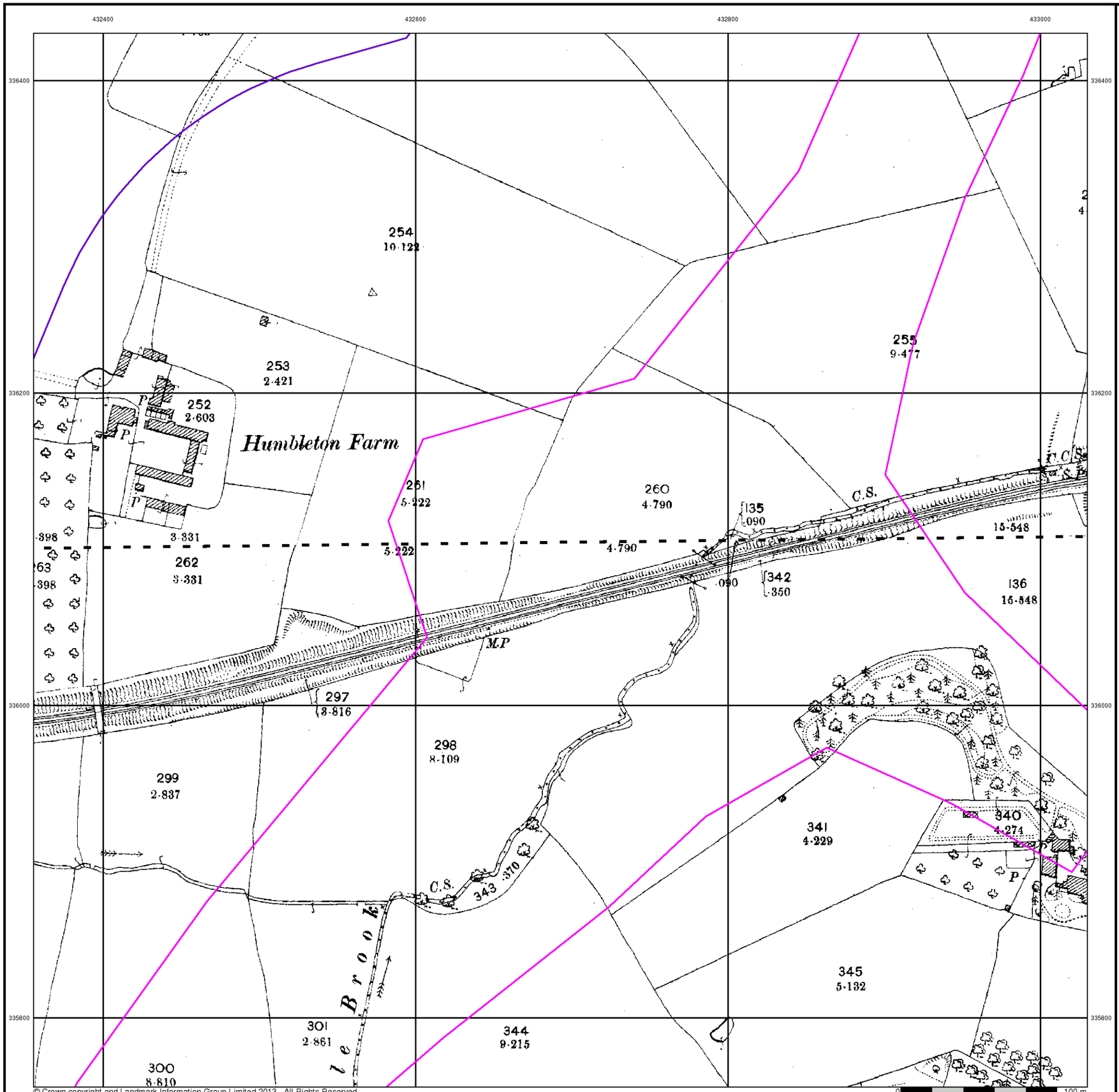
Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
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Derbyshire

Published 1901

Source map scale - 1:2,500

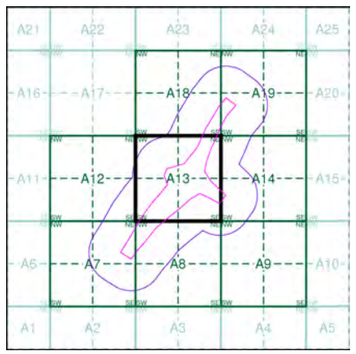
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

049_12
1901
1:2,500

049_16
1901
1:2,500

Historical Map - Segment A13



Order Details

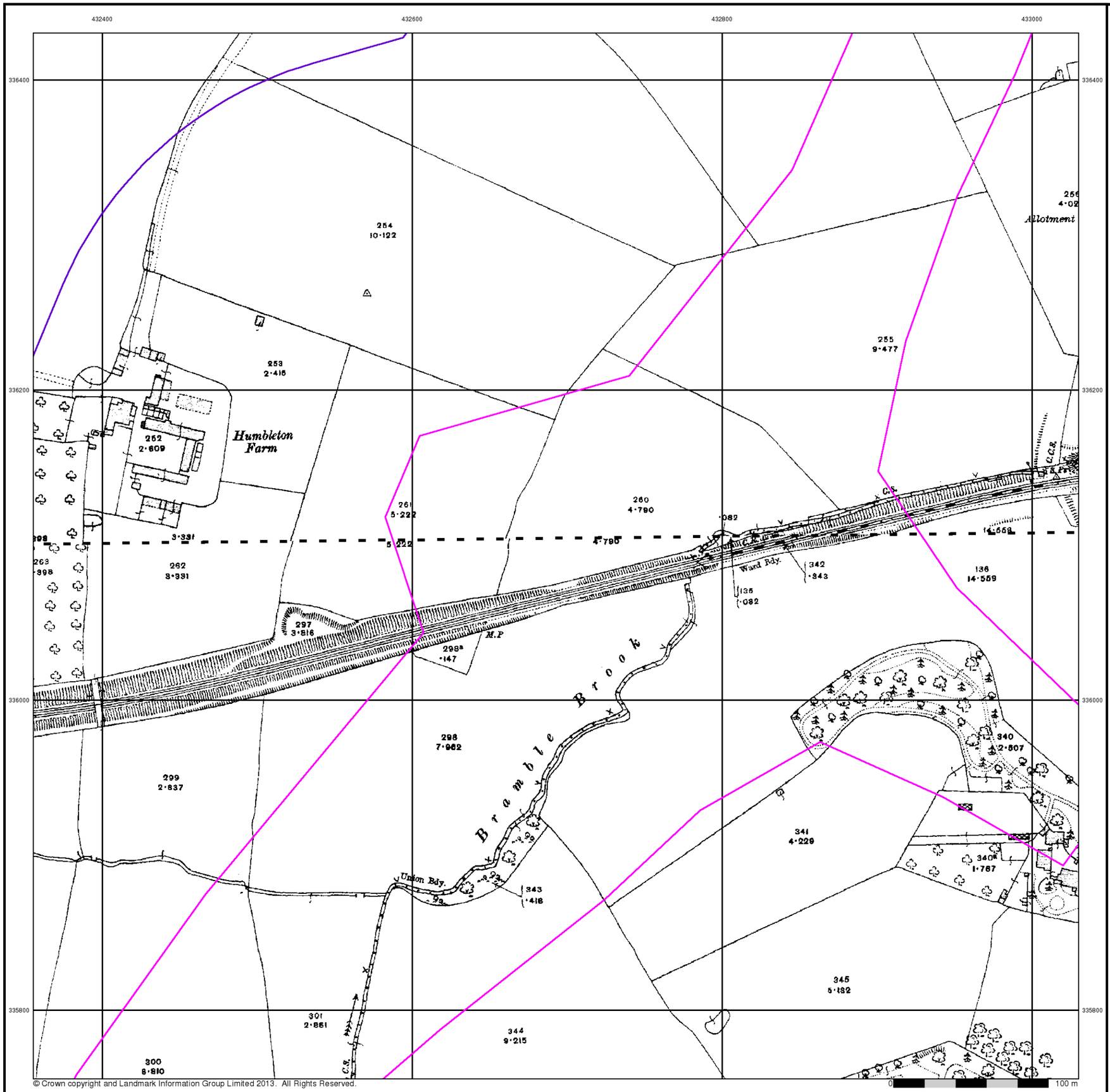
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Site Area (Ha):	24.66
Search Buffer (m):	250

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Derbyshire

Published 1914

Source map scale - 1:2,500

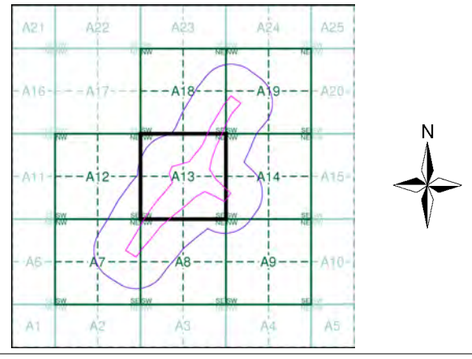
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

049_12
1914
1:2,500

049_16
1914
1:2,500

Historical Map - Segment A13



Order Details

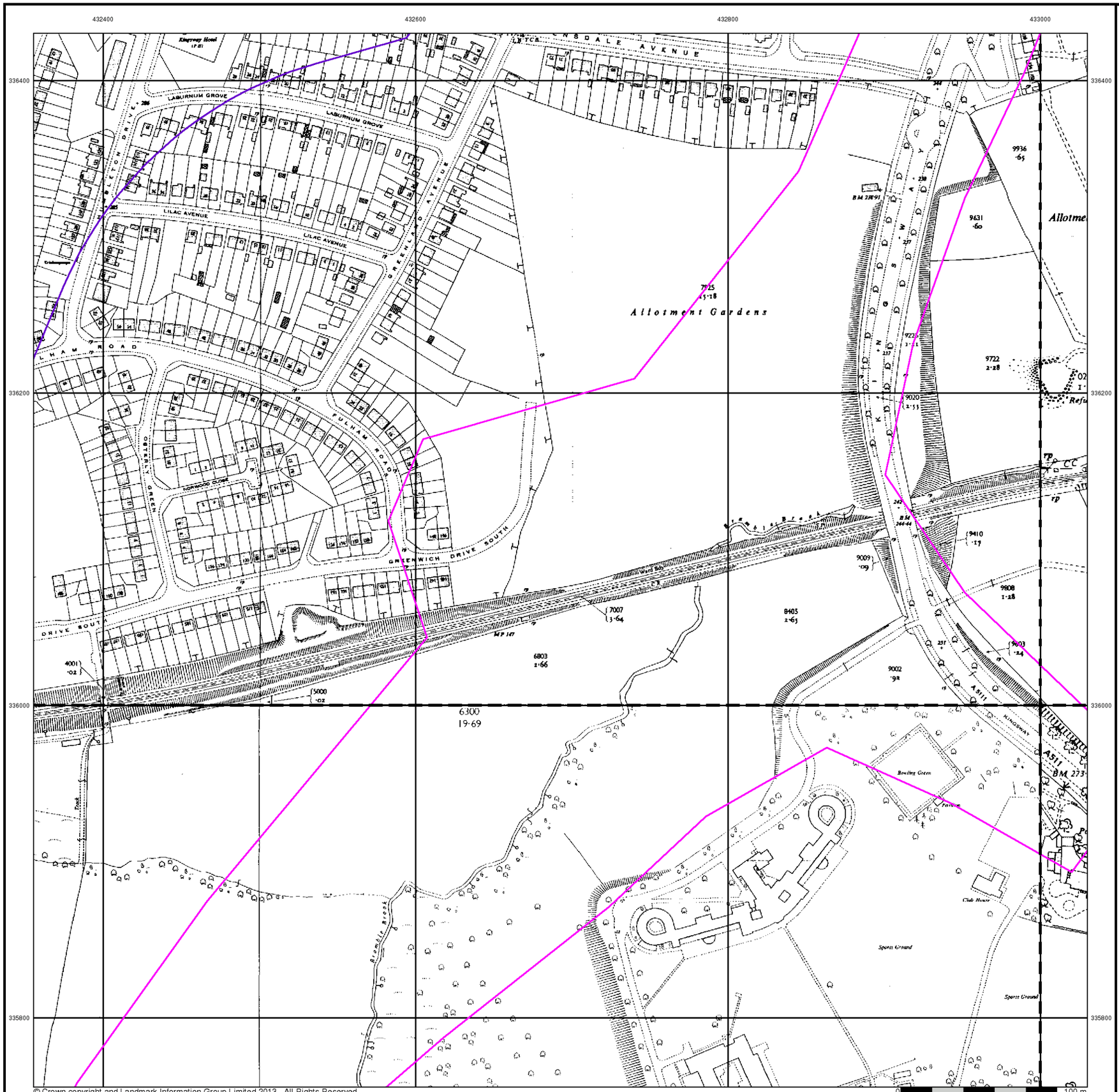
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National Grid Reference:	432740, 336060
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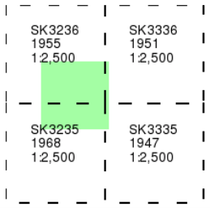
Ordnance Survey Plan

Published 1947 - 1968

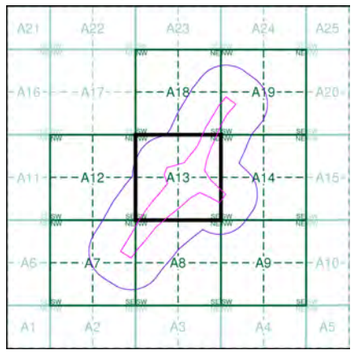
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

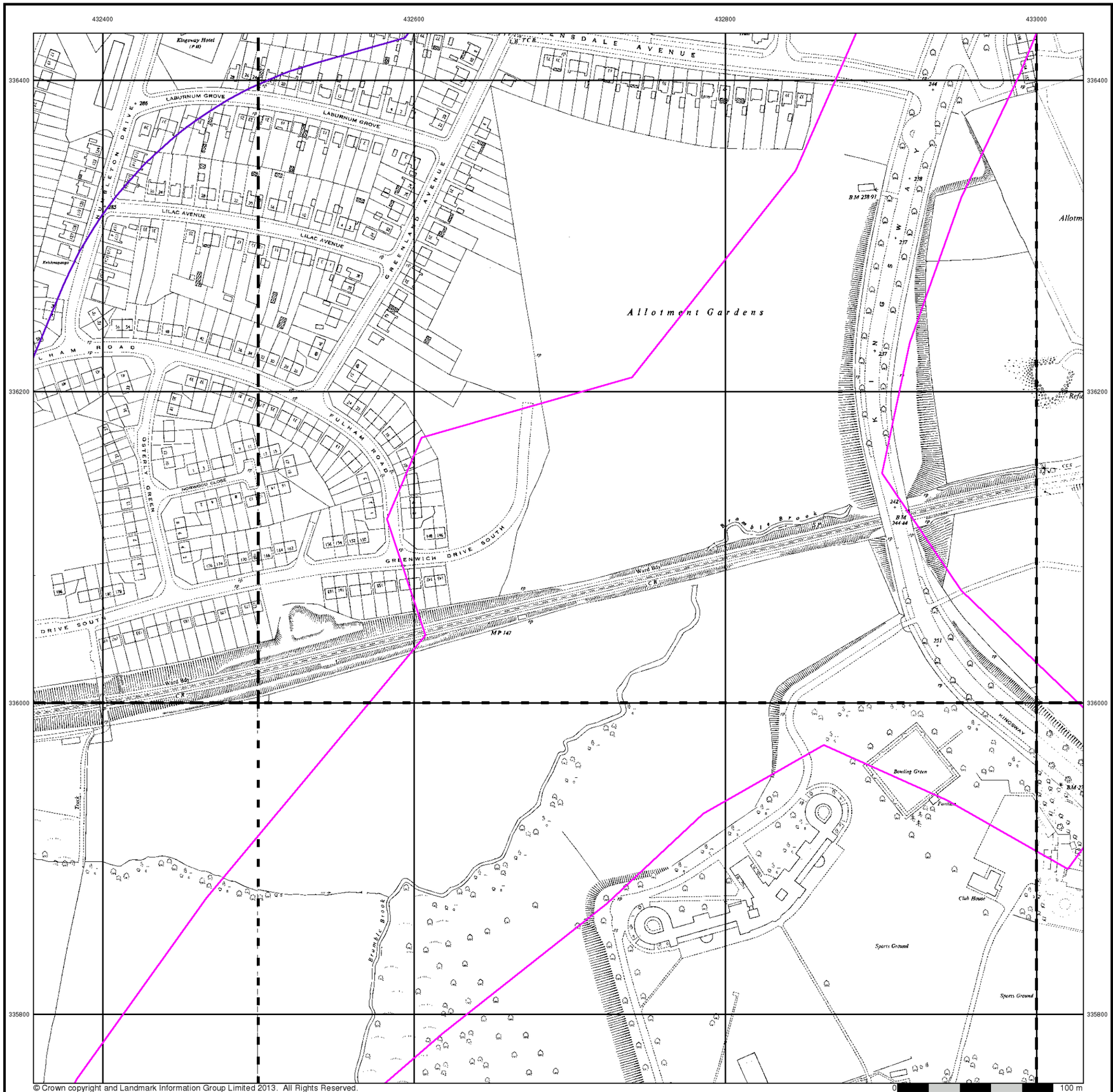
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National Grid Reference:	432740, 336060
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Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

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Ordnance Survey Plan

Published 1948 - 1966

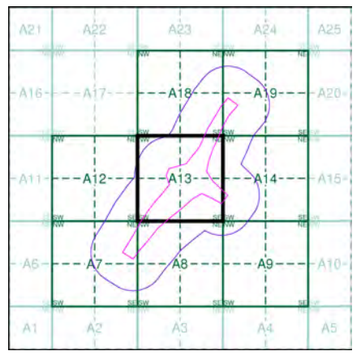
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Map Name(s) and Date(s)

SK3236SW 1955 1:1,250	SK3236SE 1955 1:1,250	SK3336SW 1948 1:1,250
SK3235NW 1966 1:1,250	SK3235NE 1966 1:1,250	SK3335NW 1948 1:1,250

Historical Map - Segment A13





Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

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Ordnance Survey Plan

Published 1953 - 1976

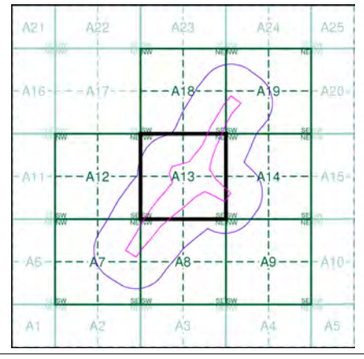
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Map Name(s) and Date(s)

SK3236SW 1964 1:1,250	SK3236SE 1958 1:1,250	SK3336SW 1953 1:1,250
SK3235NW 1976 1:1,250	SK3235NE 1976 1:1,250	SK3335NW 1967 1:1,250

Historical Map - Segment A13



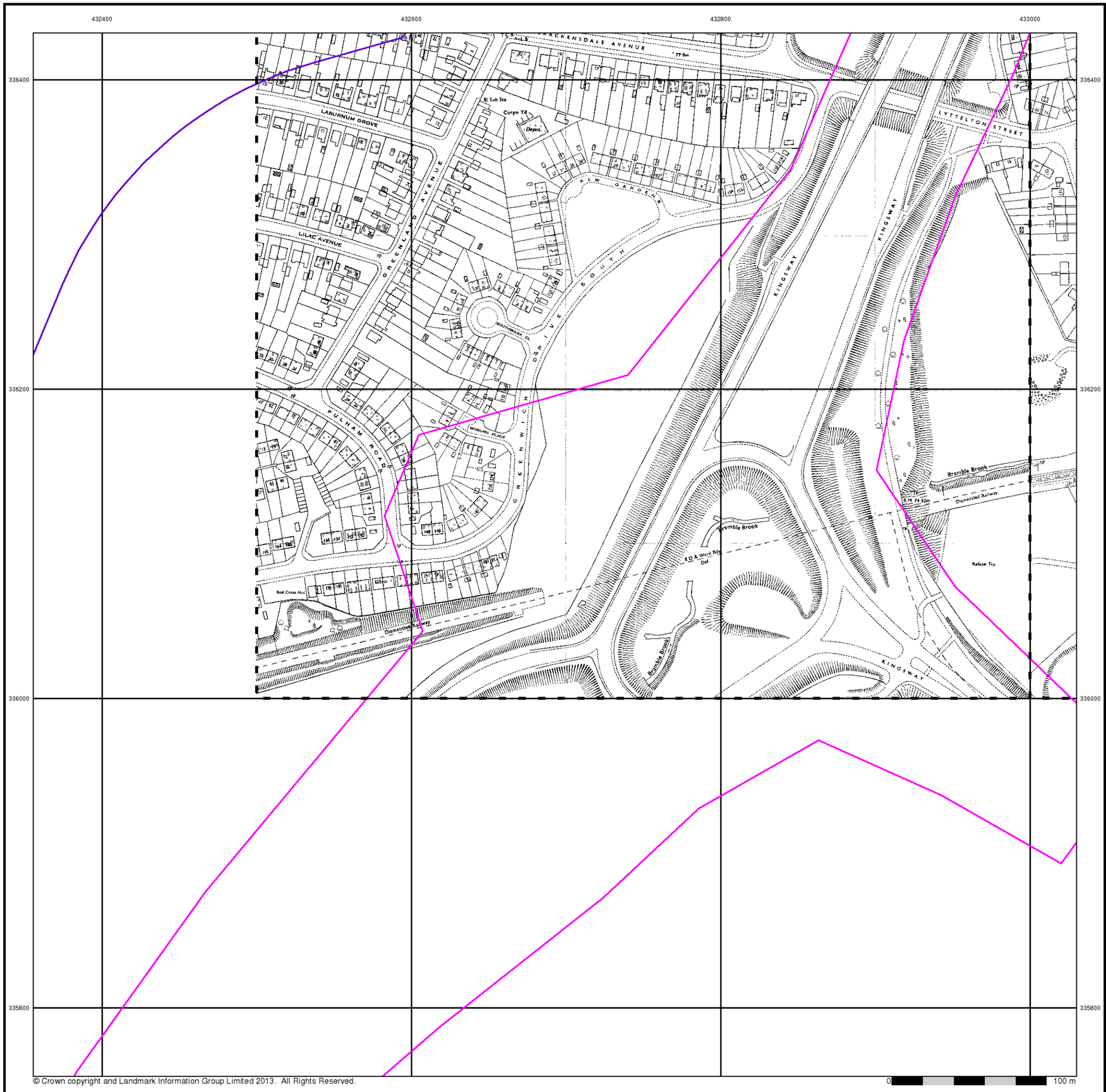
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

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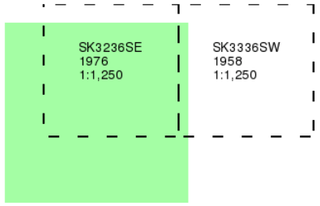
Ordnance Survey Plan

Published 1958 - 1976

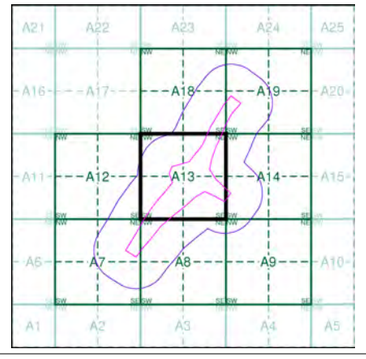
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
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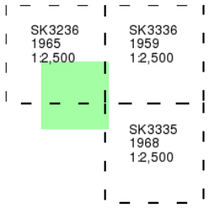
Ordnance Survey Plan

Published 1959 - 1968

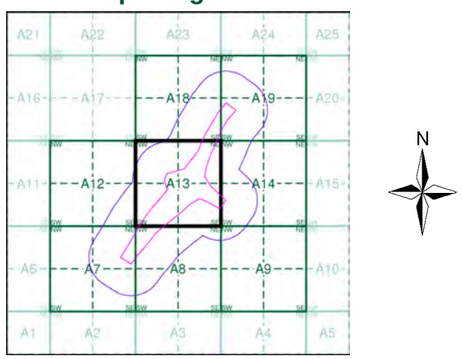
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

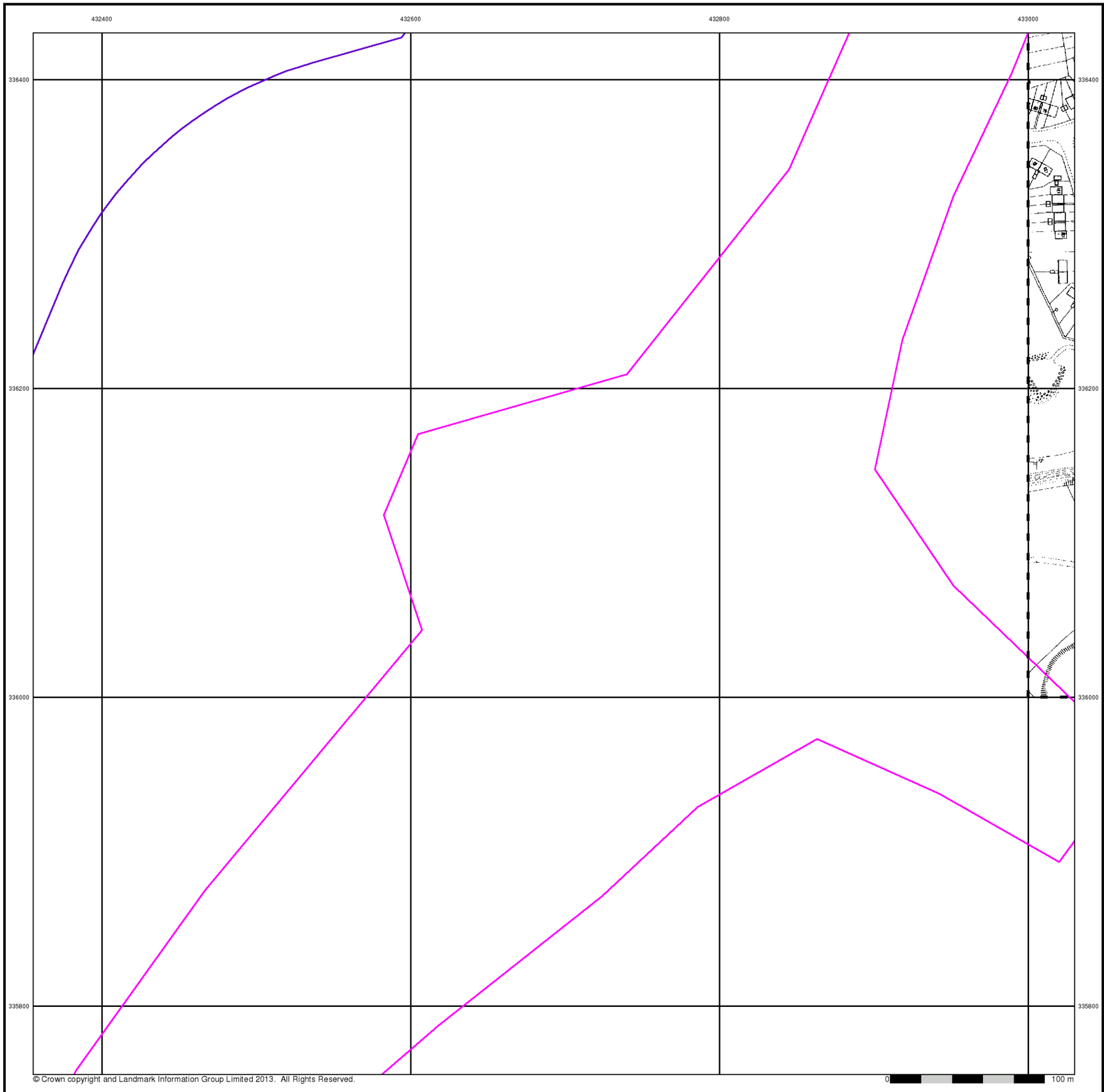
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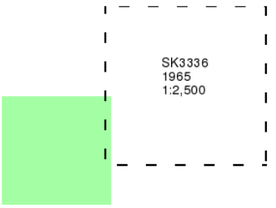
Ordnance Survey Plan

Published 1965

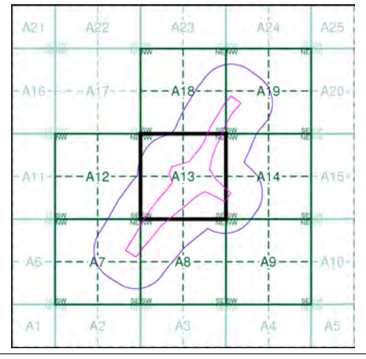
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

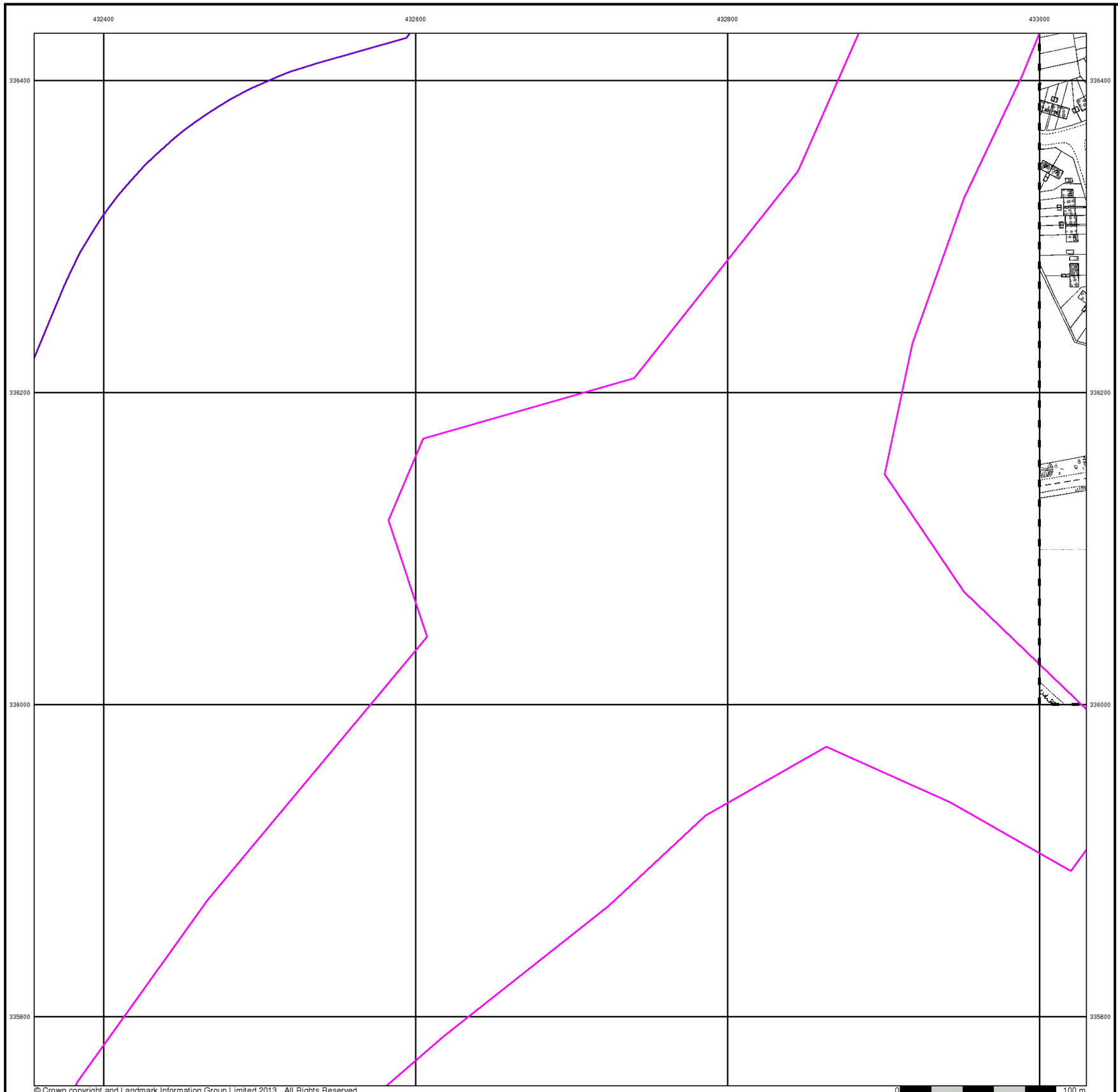
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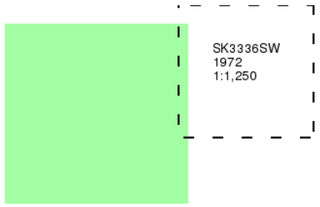
Ordnance Survey Plan

Published 1972

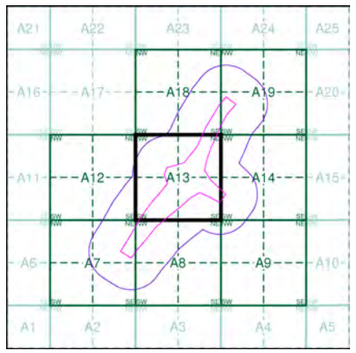
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



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National Grid Reference:	432740, 336060
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Search Buffer (m):	250

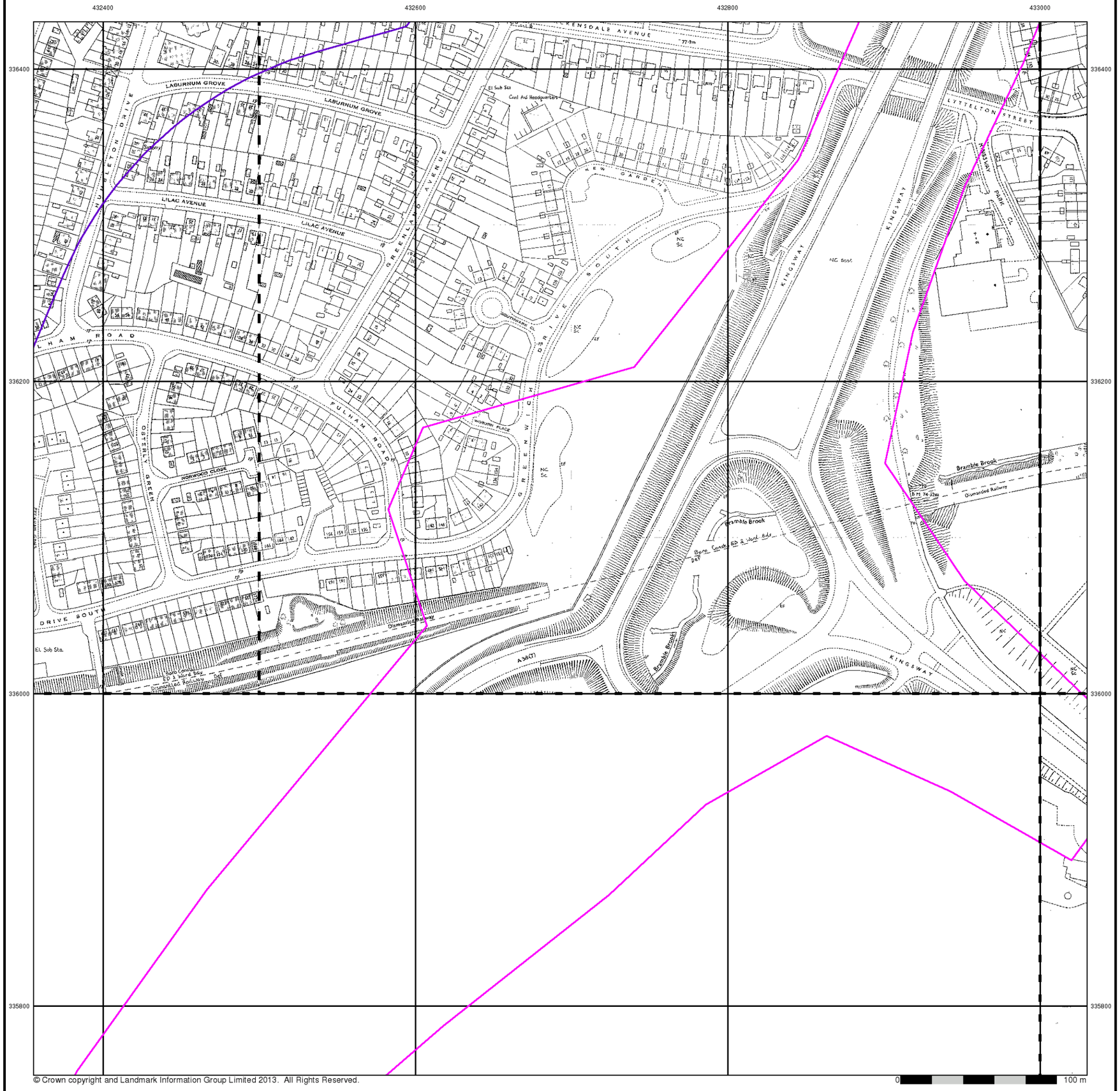
Site Details

Site at, Derby, City of Derby

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432400
432600
432800
433000
336400
336200
336000
335800
Kingsway
Dismantled Rly
Refuse Tip
Sidings
Stores
Bramble Dell
Cut
Fill
Laburnum Grove
Lilac Avenue
Rowditch Avenue
Chain Road
Rowditch Avenue
Rowditch Avenue
Rowditch Avenue



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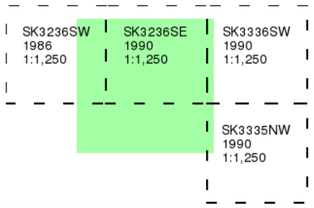
Additional SIMs

Published 1986 - 1990

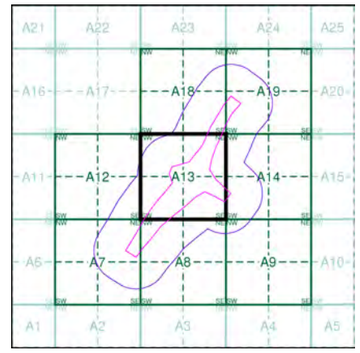
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



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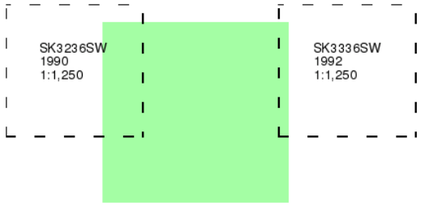
Additional SIMs

Published 1990 - 1992

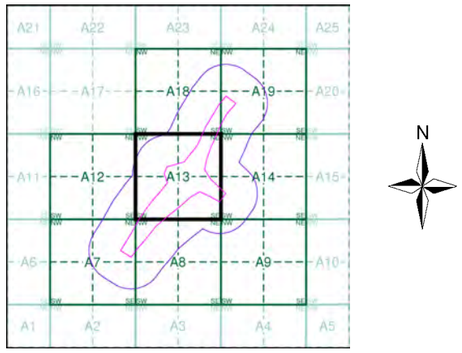
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



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Large-Scale National Grid Data

Published 1993

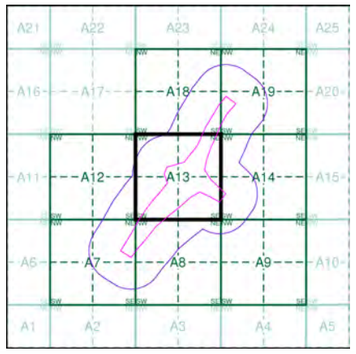
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3236SW 1993 1:1,250	SK3236SE 1993 1:1,250	SK3336SW 1993 1:1,250
SK3235NW 1993 1:1,250	SK3235NE 1993 1:1,250	SK3335NW 1993 1:1,250

Historical Map - Segment A13



Order Details

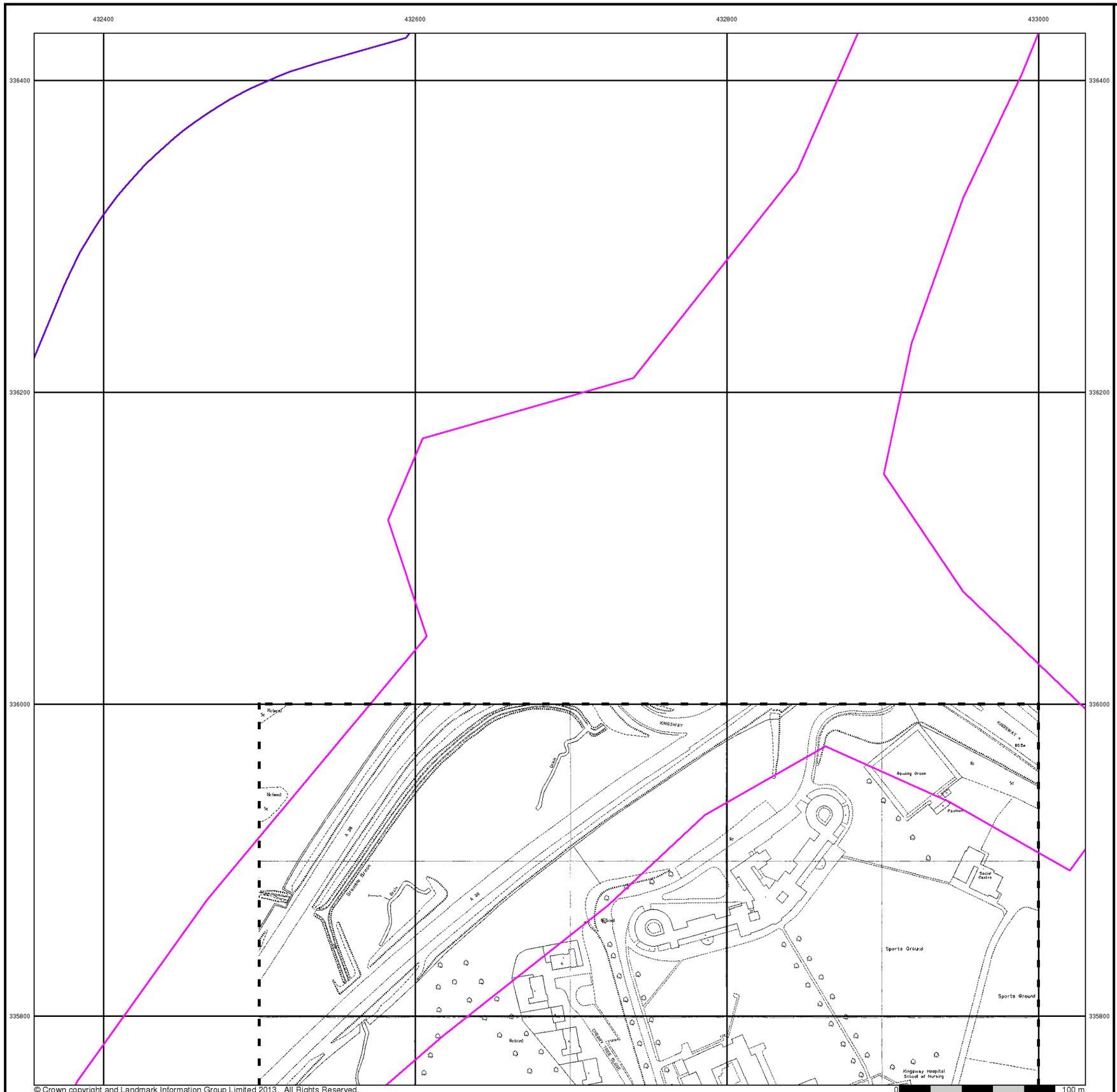
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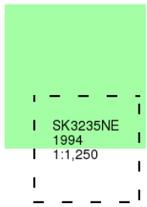
Large-Scale National Grid Data

Published 1994

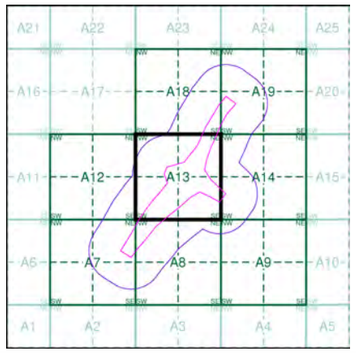
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

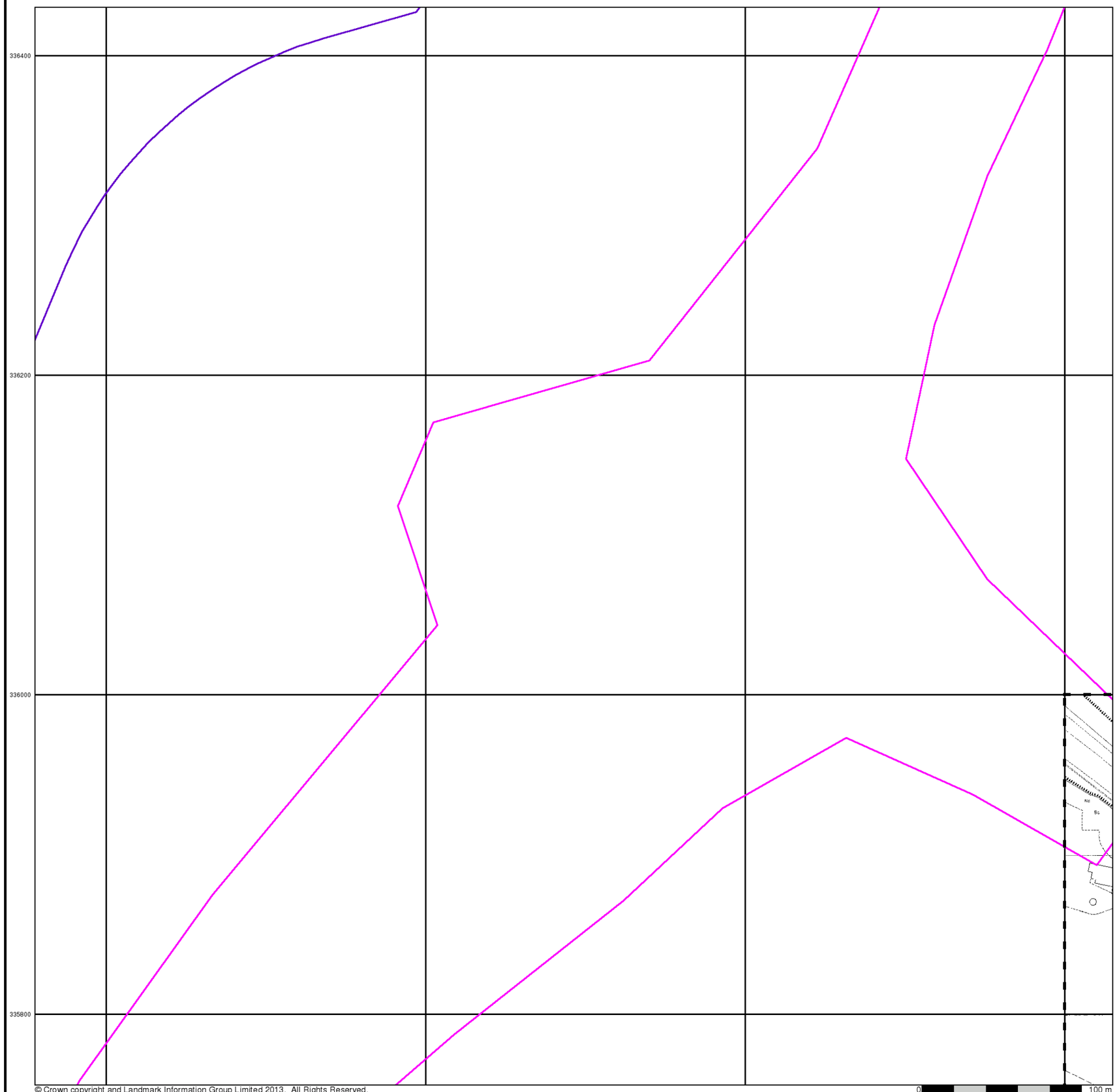
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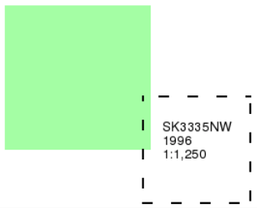
Large-Scale National Grid Data

Published 1996

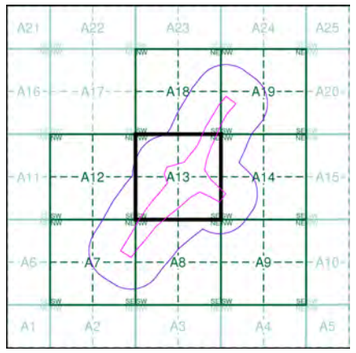
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



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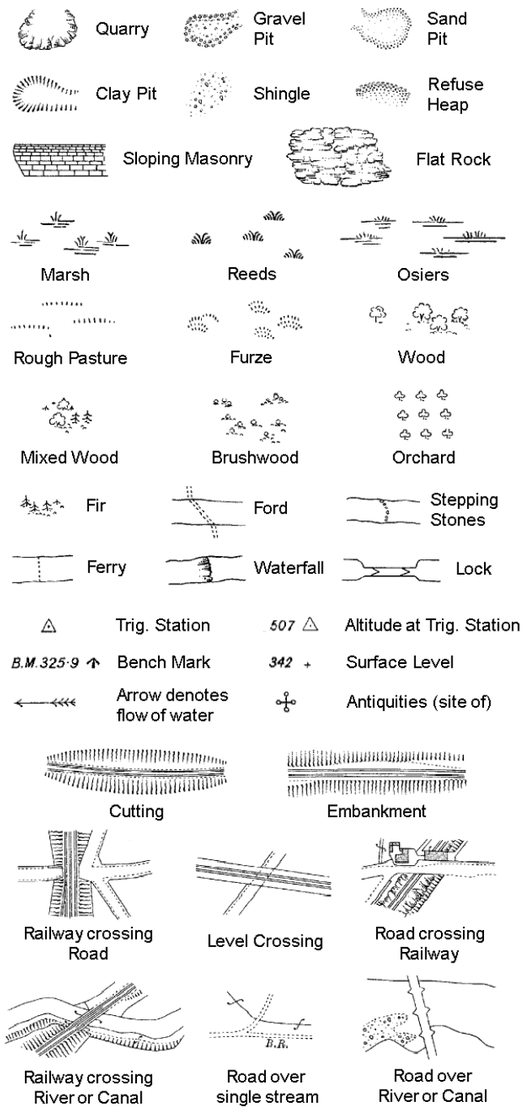
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Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)

County & Civil Parish Boundary

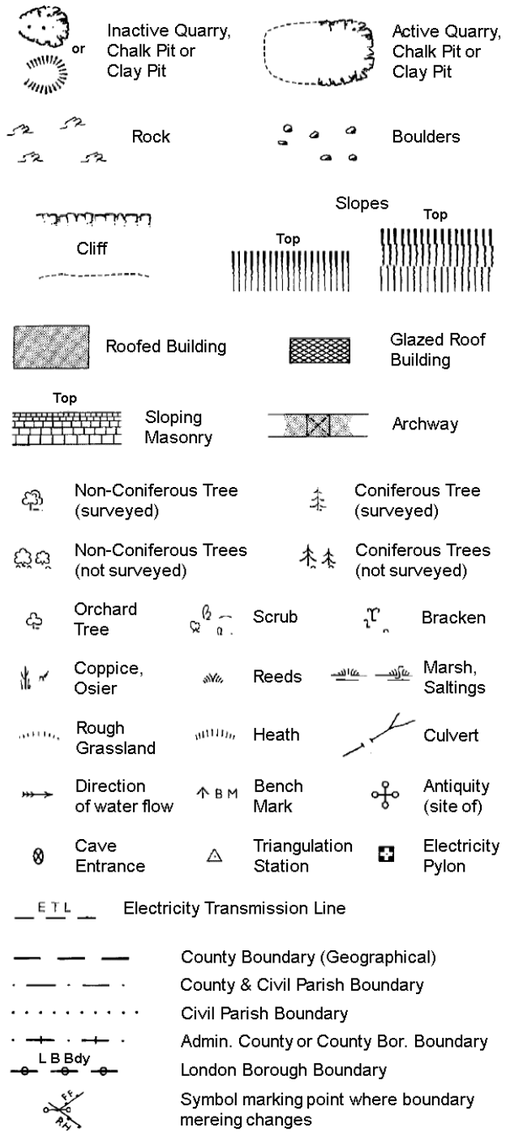
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

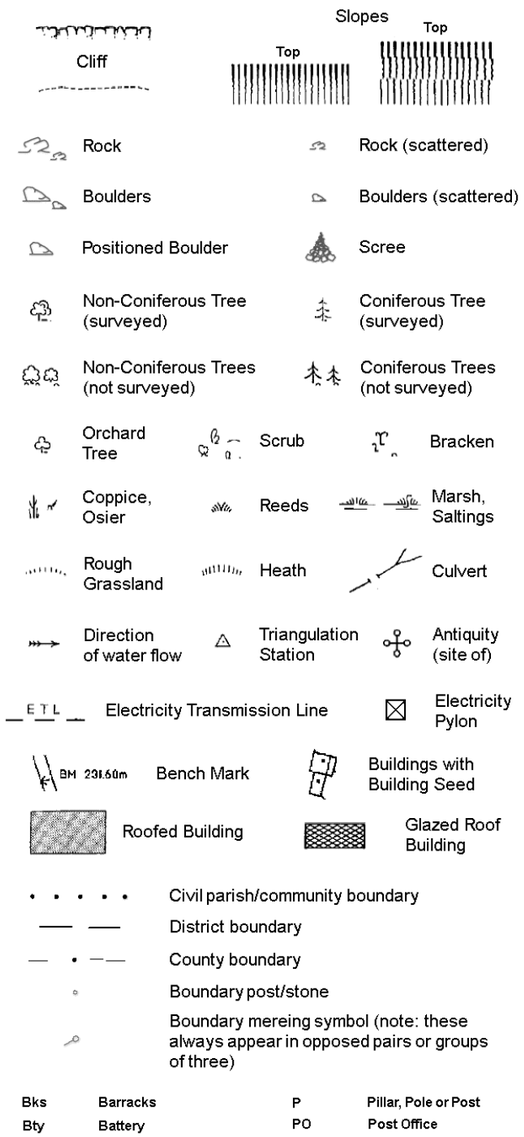
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

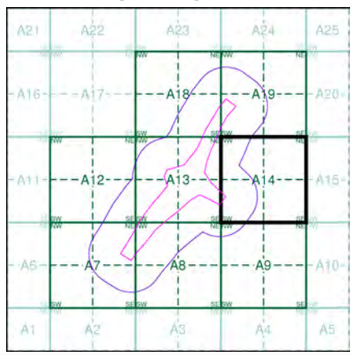
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1914	4
Ordnance Survey Plan	1:2,500	1947 - 1951	5
Ordnance Survey Plan	1:1,250	1948	6
Ordnance Survey Plan	1:1,250	1952 - 1967	7
Ordnance Survey Plan	1:1,250	1958 - 1973	8
Ordnance Survey Plan	1:2,500	1959 - 1968	9
Ordnance Survey Plan	1:2,500	1965	10
Ordnance Survey Plan	1:1,250	1972	11
Additional SIMs	1:1,250	1980 - 1990	12
Additional SIMs	1:1,250	1990 - 1992	13
Additional SIMs	1:1,250	1992	14
Large-Scale National Grid Data	1:1,250	1993	15
Large-Scale National Grid Data	1:1,250	1996	16

Historical Map - Segment A14



Order Details

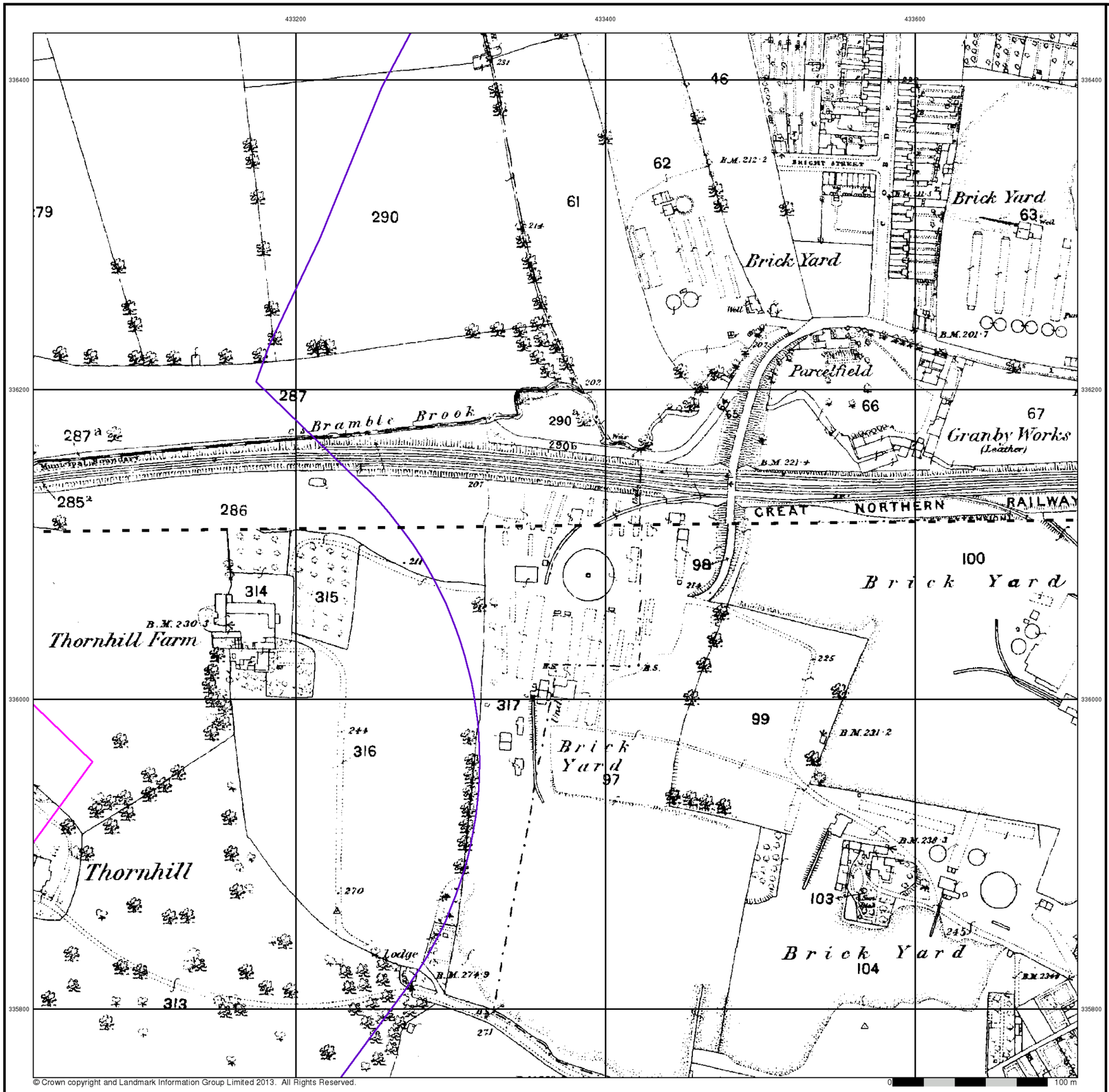
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

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Derbyshire

Published 1883

Source map scale - 1:2,500

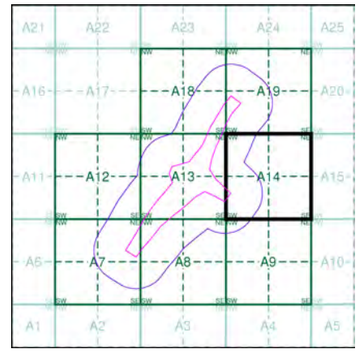
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

049_12
1883
1:2,500

049_16
1883
1:2,500

Historical Map - Segment A14



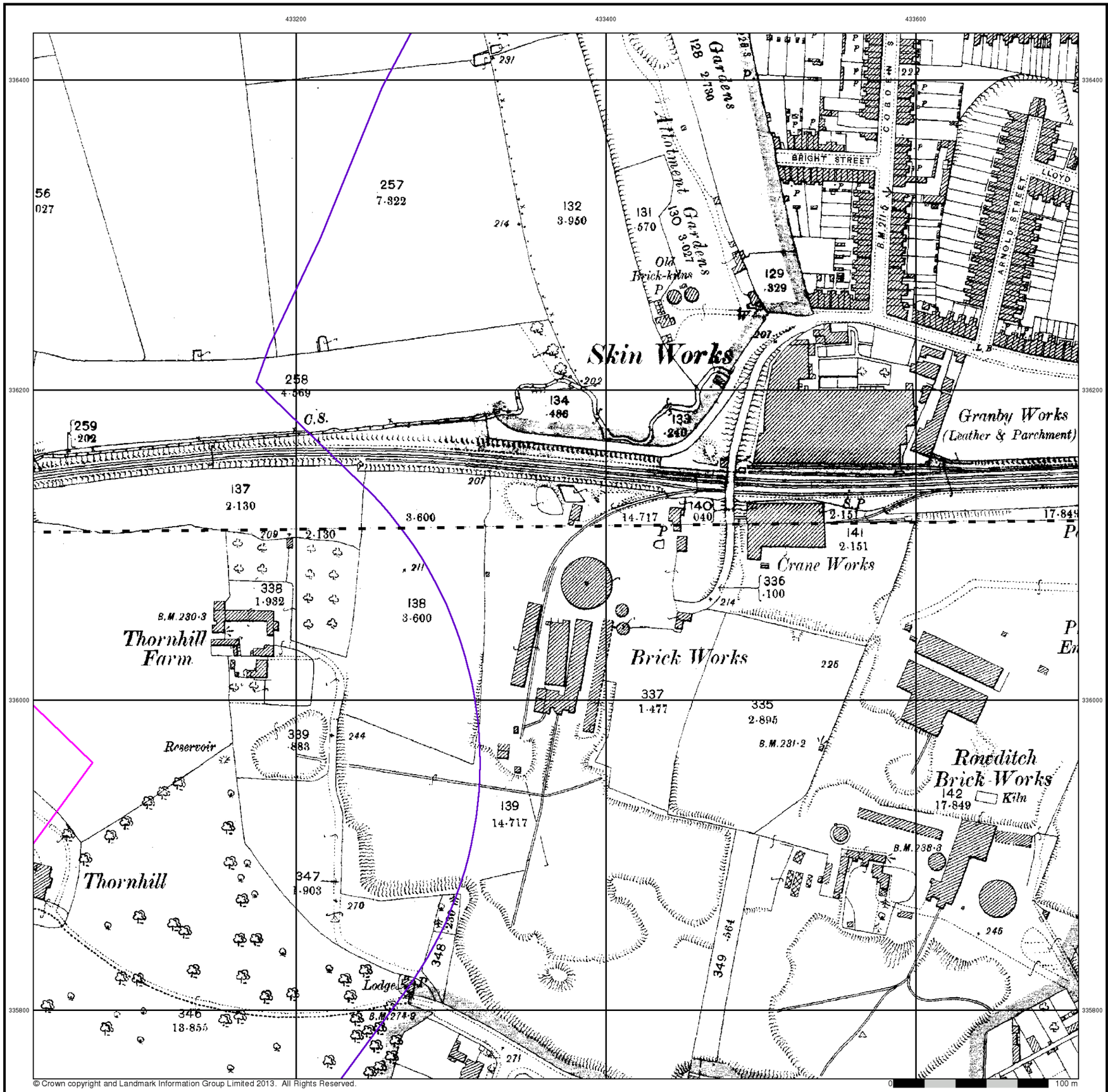
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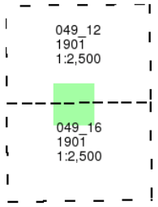
Derbyshire

Published 1901

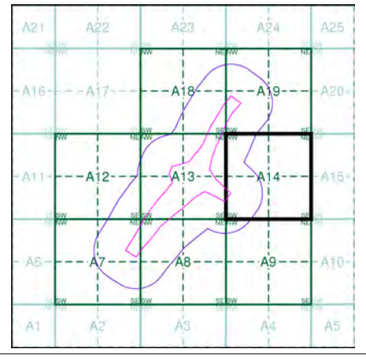
Source map scale - 1:2,500

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Historical Map - Segment A14



Order Details

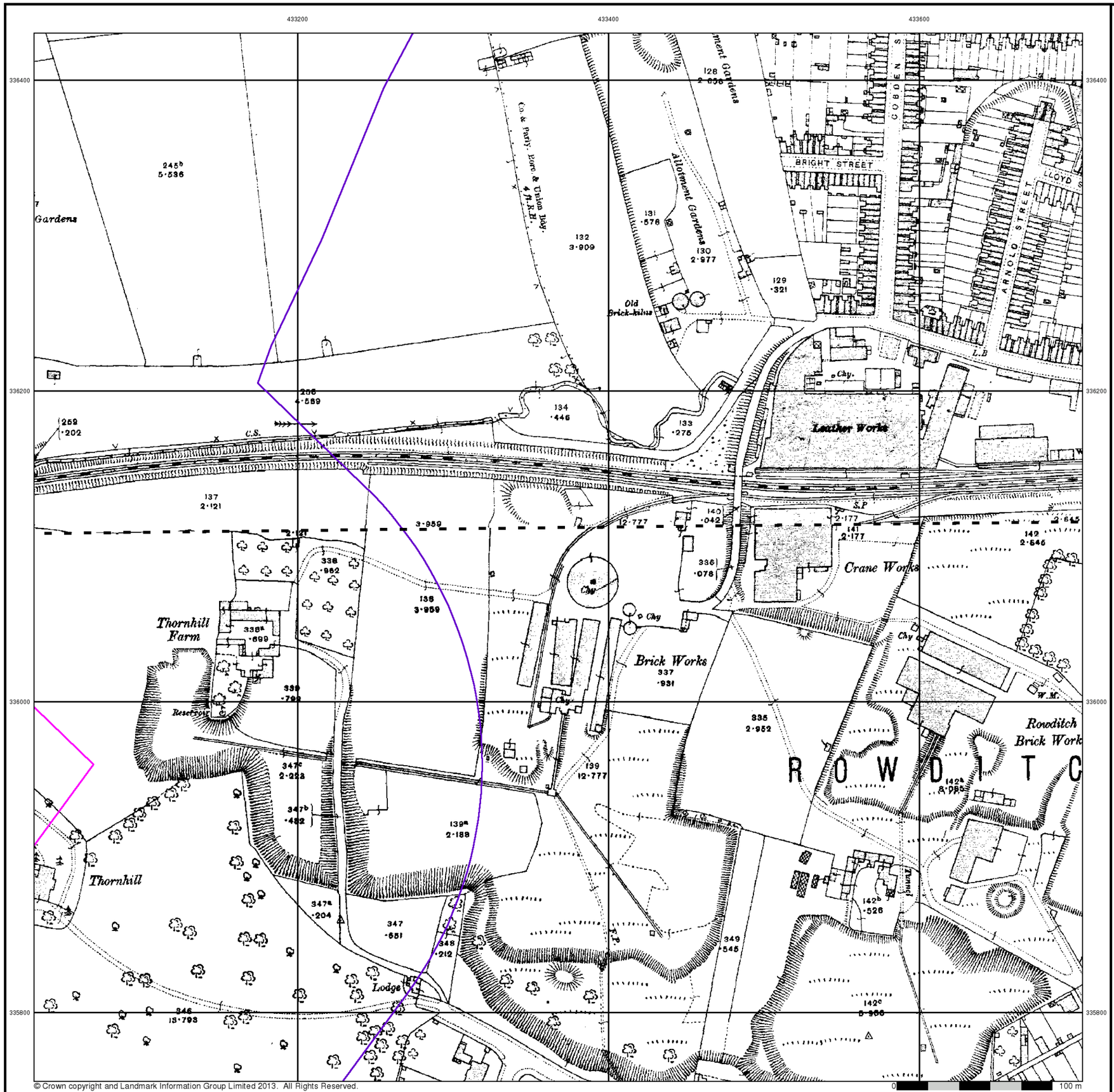
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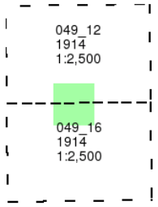
Derbyshire

Published 1914

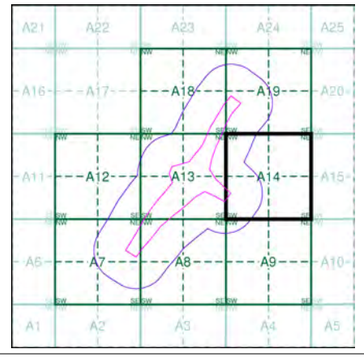
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Historical Map - Segment A14



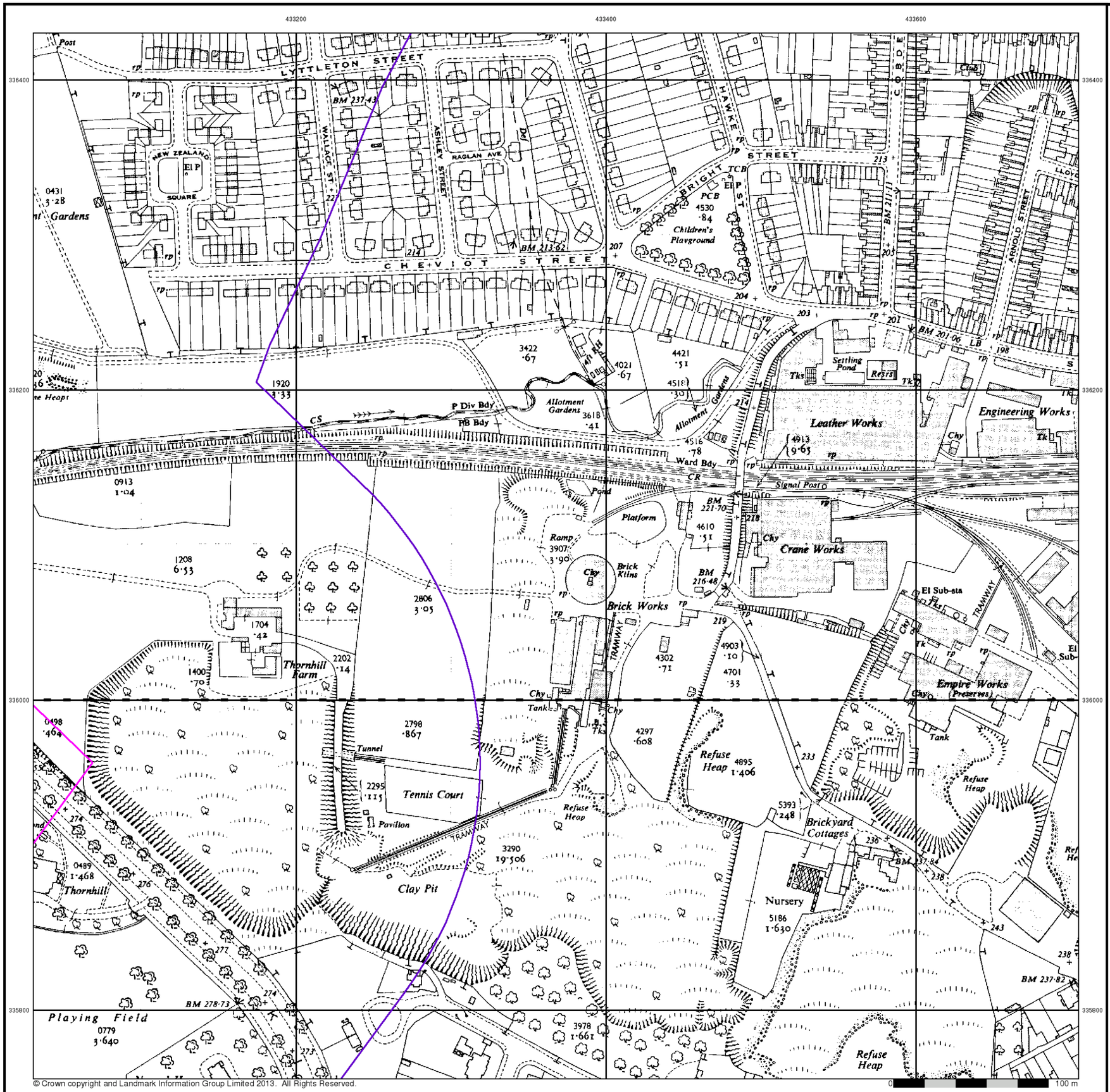
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Ordnance Survey Plan

Published 1947 - 1951

Source map scale - 1:2,500

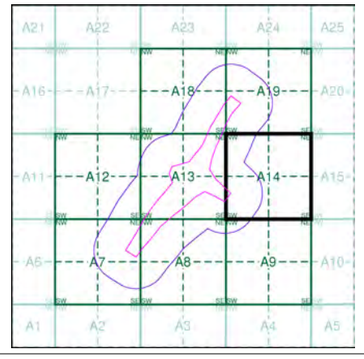
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3336
1951
1:2,500

SK3335
1947
1:2,500

Historical Map - Segment A14



Order Details

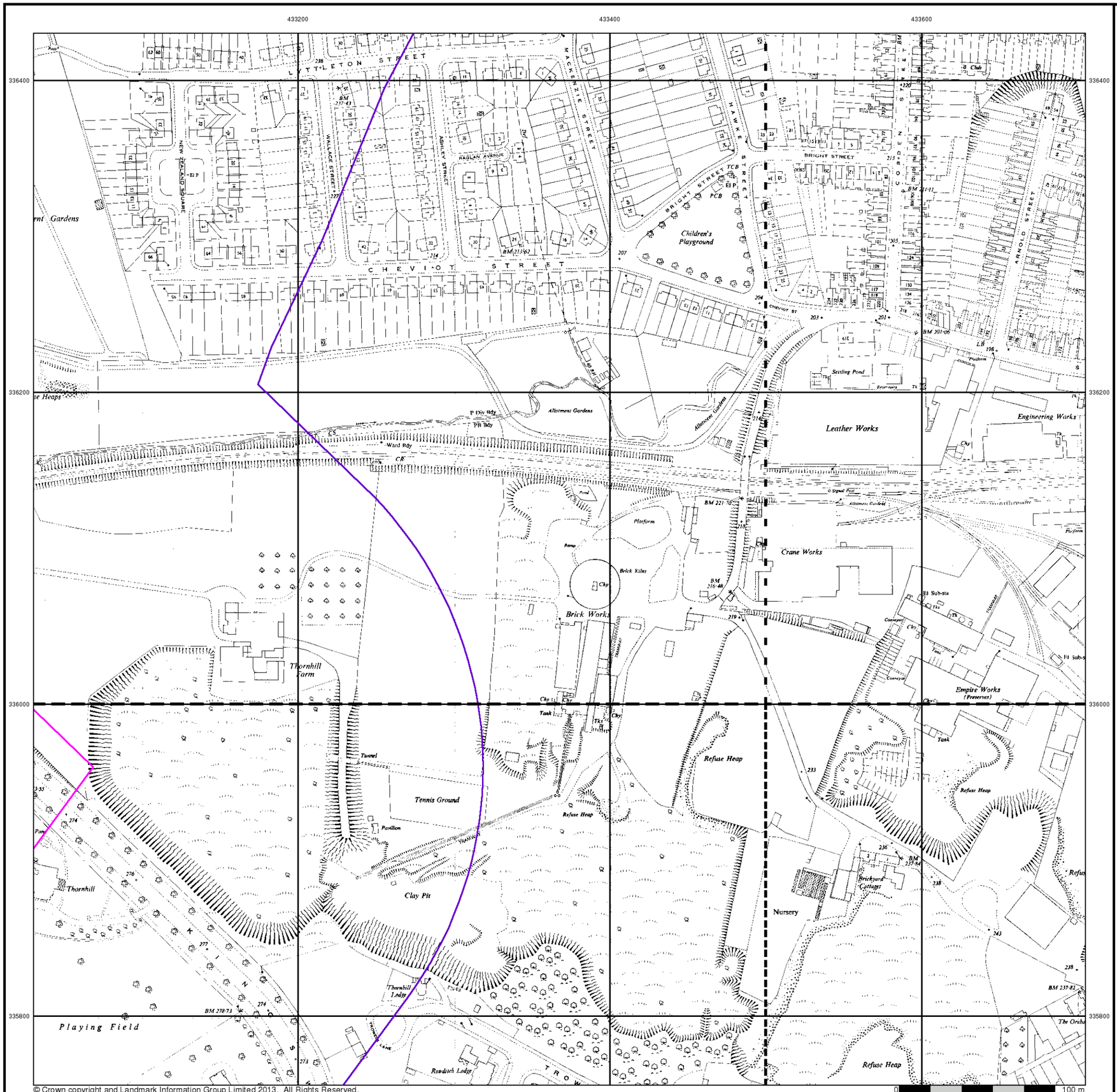
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Ordnance Survey Plan

Published 1948

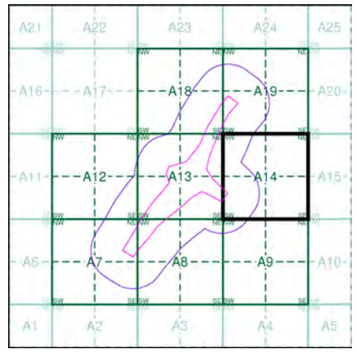
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3336SW 1948 1:1,250	SK3336SE 1948 1:1,250
SK3335NW 1948 1:1,250	SK3335NE 1948 1:1,250

Historical Map - Segment A14



Order Details

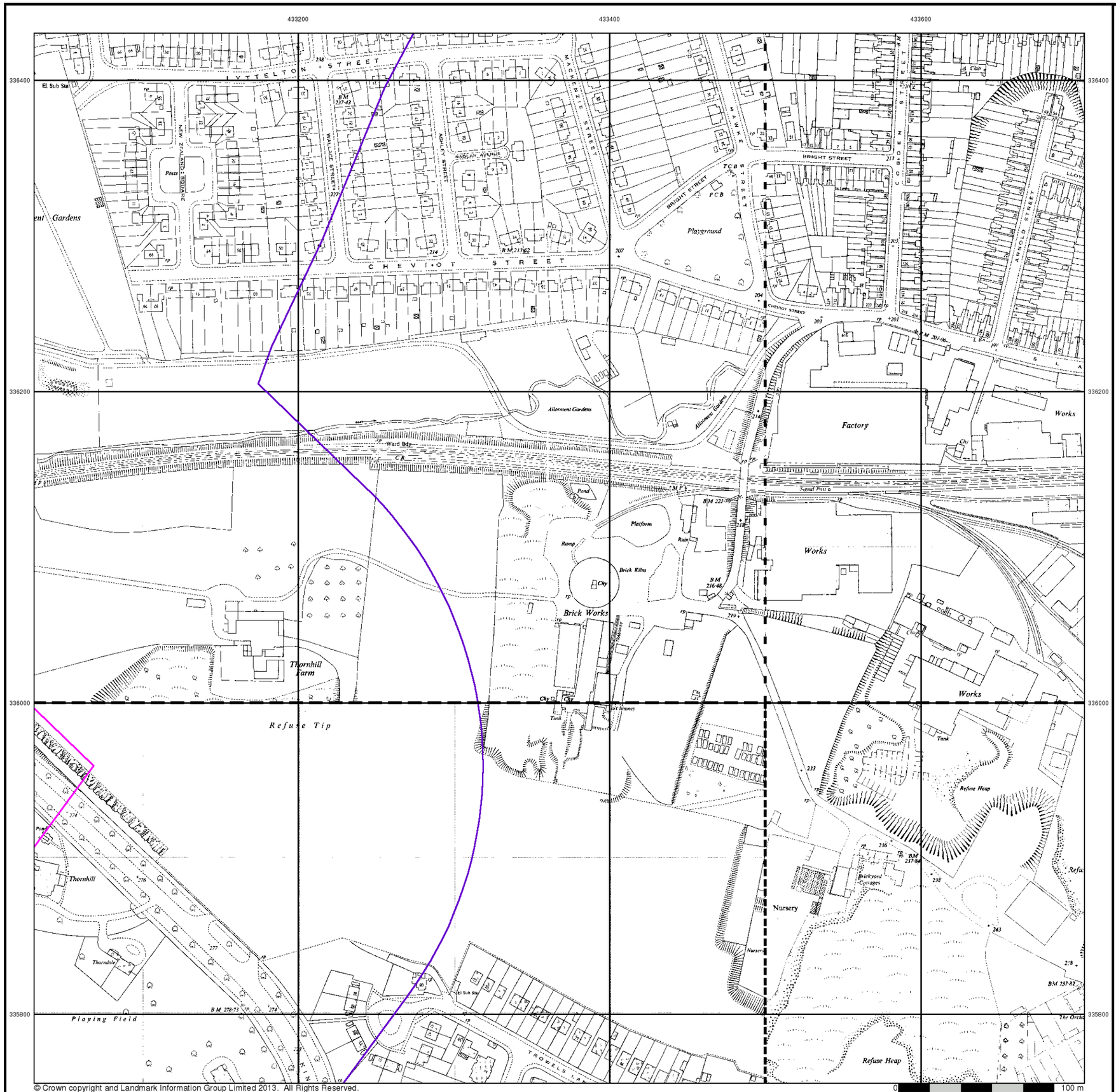
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
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Ordnance Survey Plan

Published 1952 - 1967

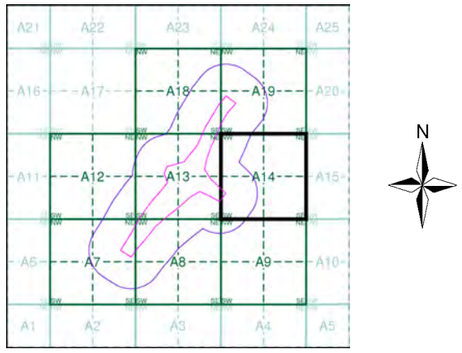
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3336SW 1953 1:1,250	SK3336SE 1963 1:1,250
SK3335NW 1967 1:1,250	SK3335NE 1952 1:1,250

Historical Map - Segment A14



Order Details

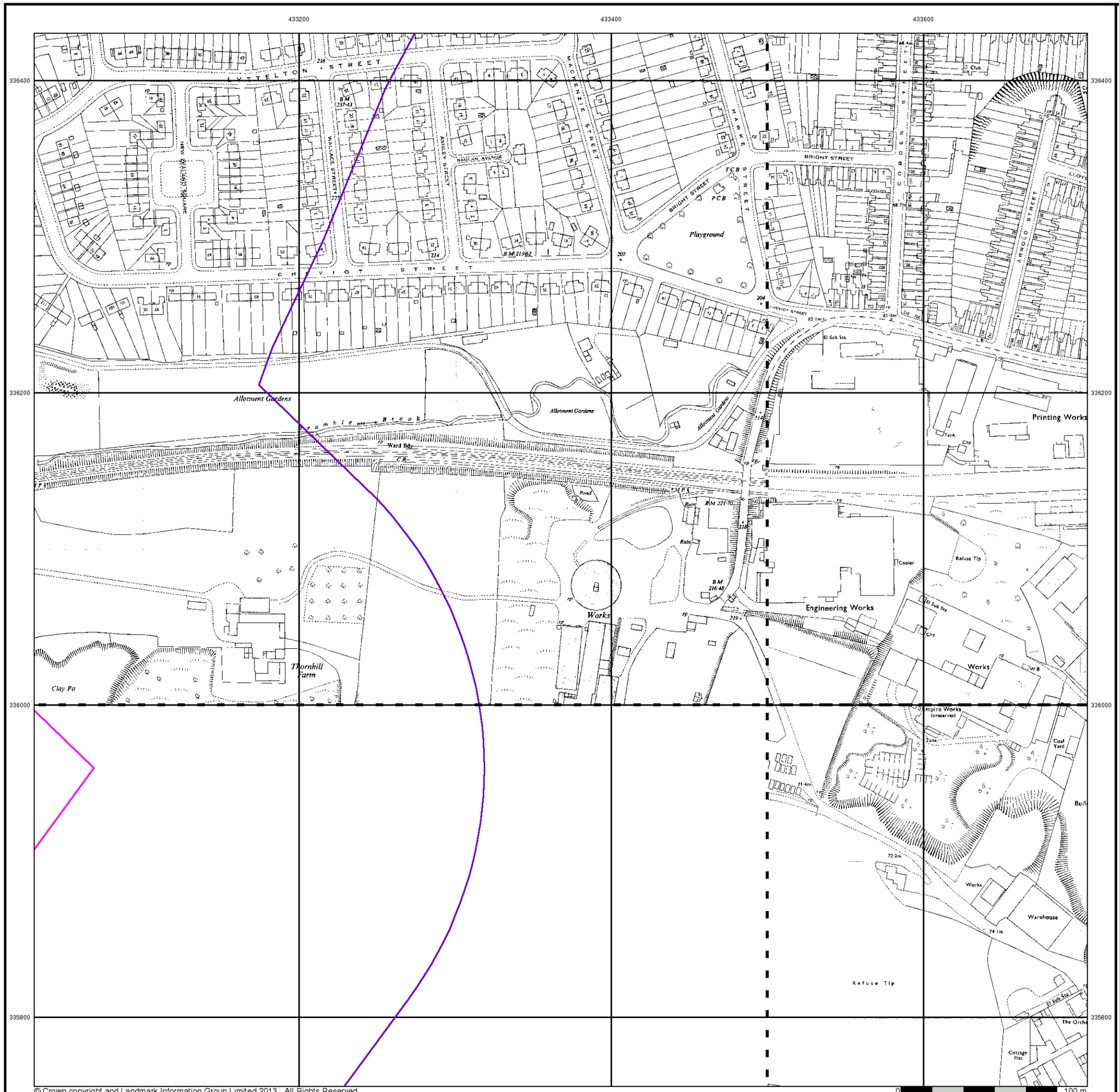
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

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Ordnance Survey Plan

Published 1958 - 1973

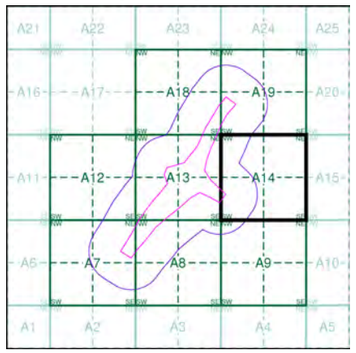
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3336SW 1958 1:1,250
SK3336SE 1973 1:1,250
SK3335NE 1971 1:1,250

Historical Map - Segment A14



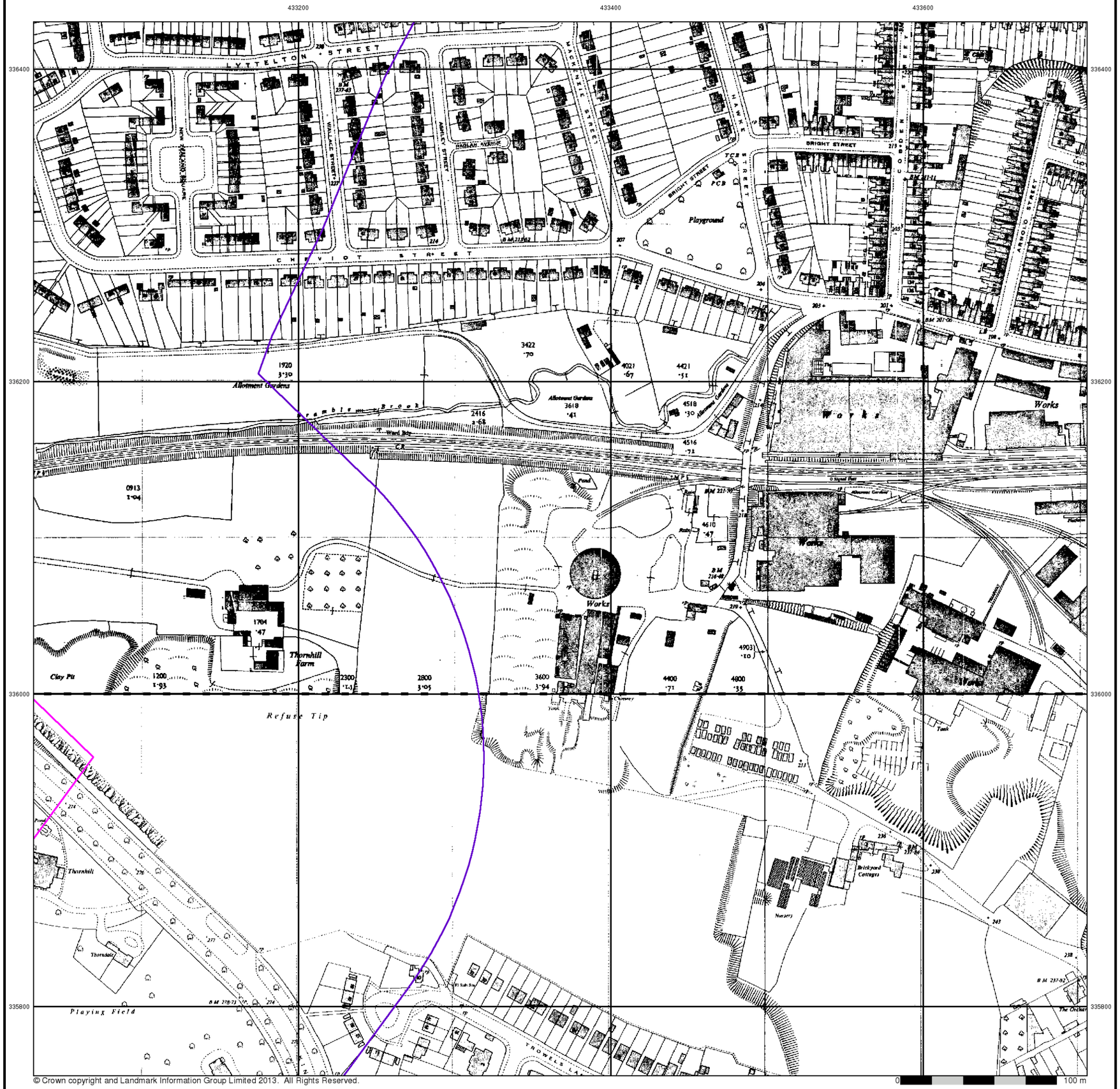
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
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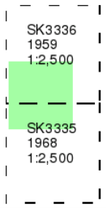
Ordnance Survey Plan

Published 1959 - 1968

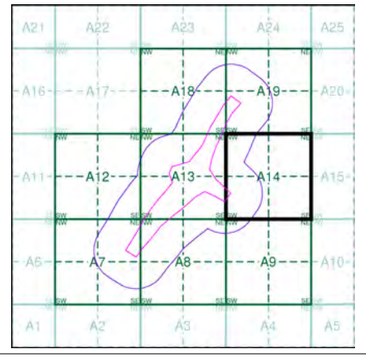
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A14



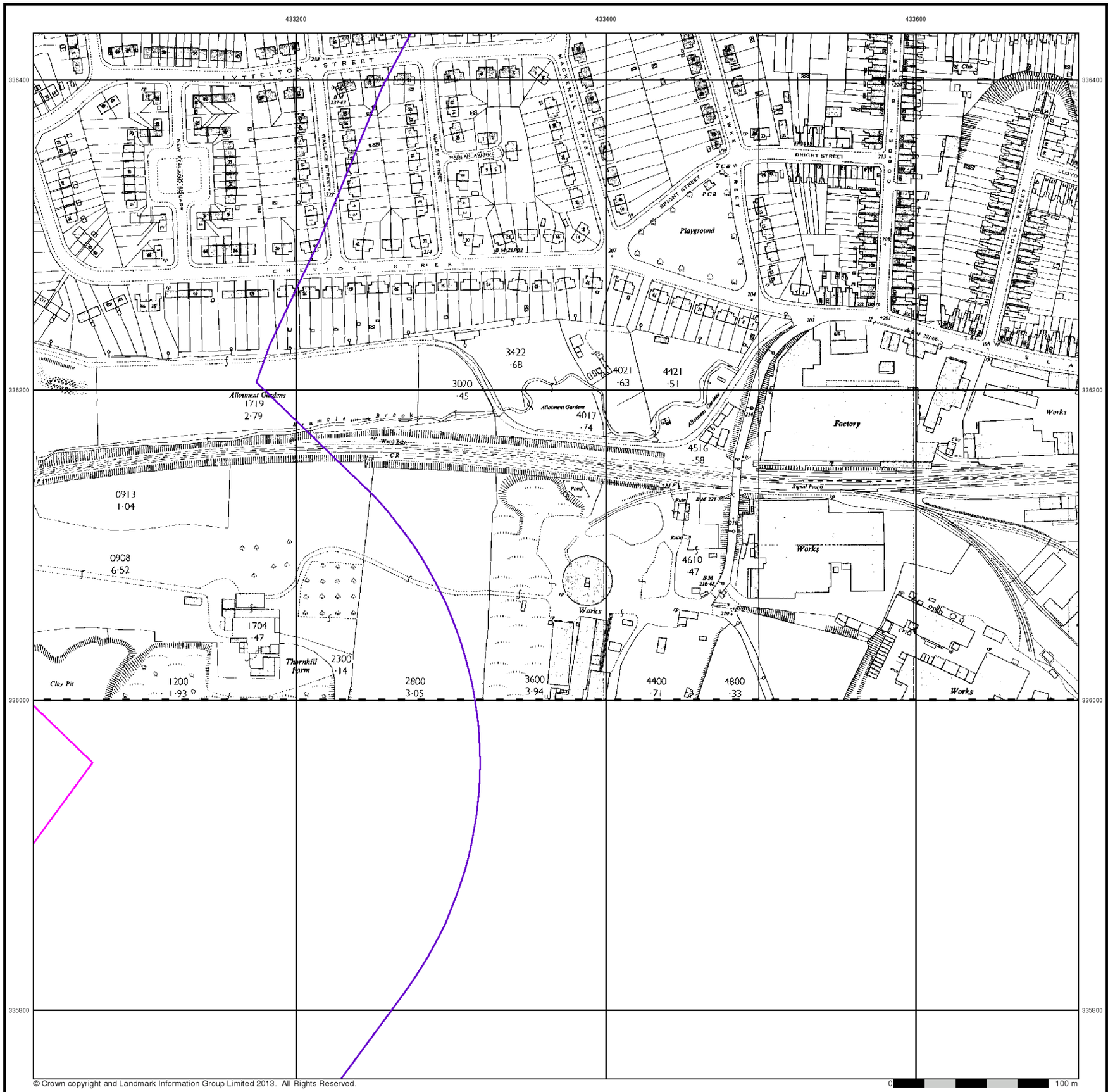
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

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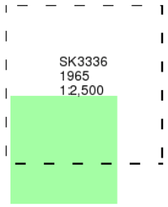
Ordnance Survey Plan

Published 1965

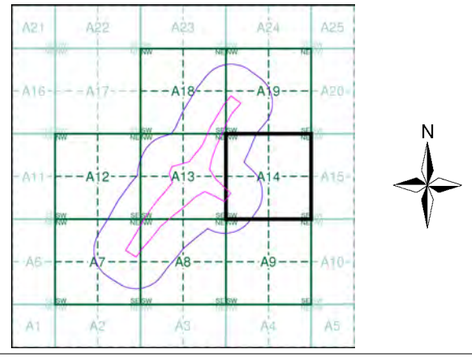
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
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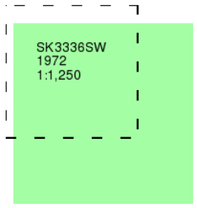
Ordnance Survey Plan

Published 1972

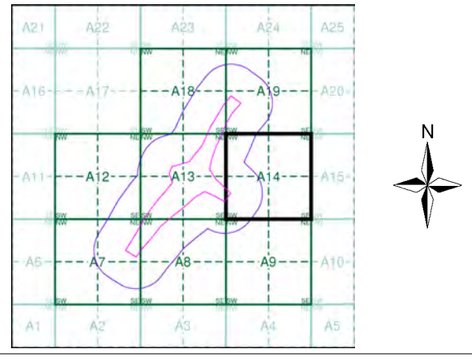
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A14



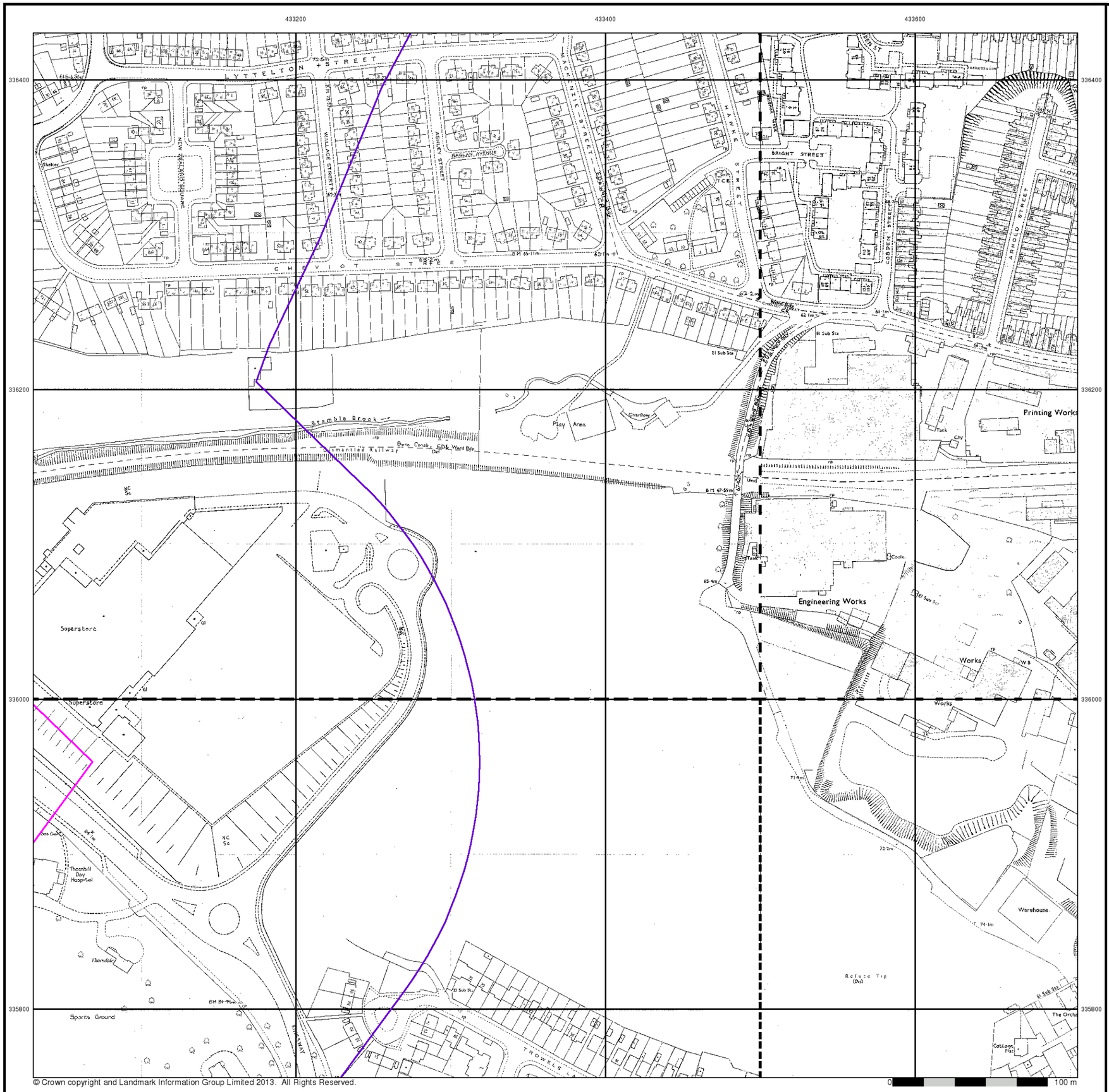
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

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Additional SIMs

Published 1980 - 1990

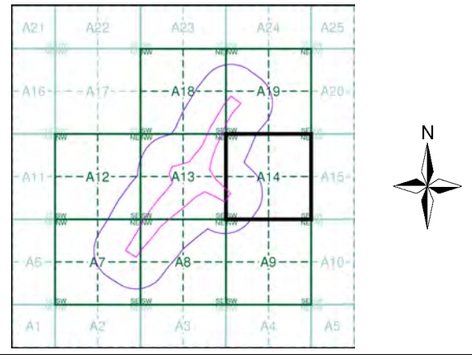
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3336SW 1990 1:1,250	SK3336SE 1980 1:1,250
SK3335NW 1990 1:1,250	SK3335NE 1990 1:1,250

Historical Map - Segment A14



Order Details

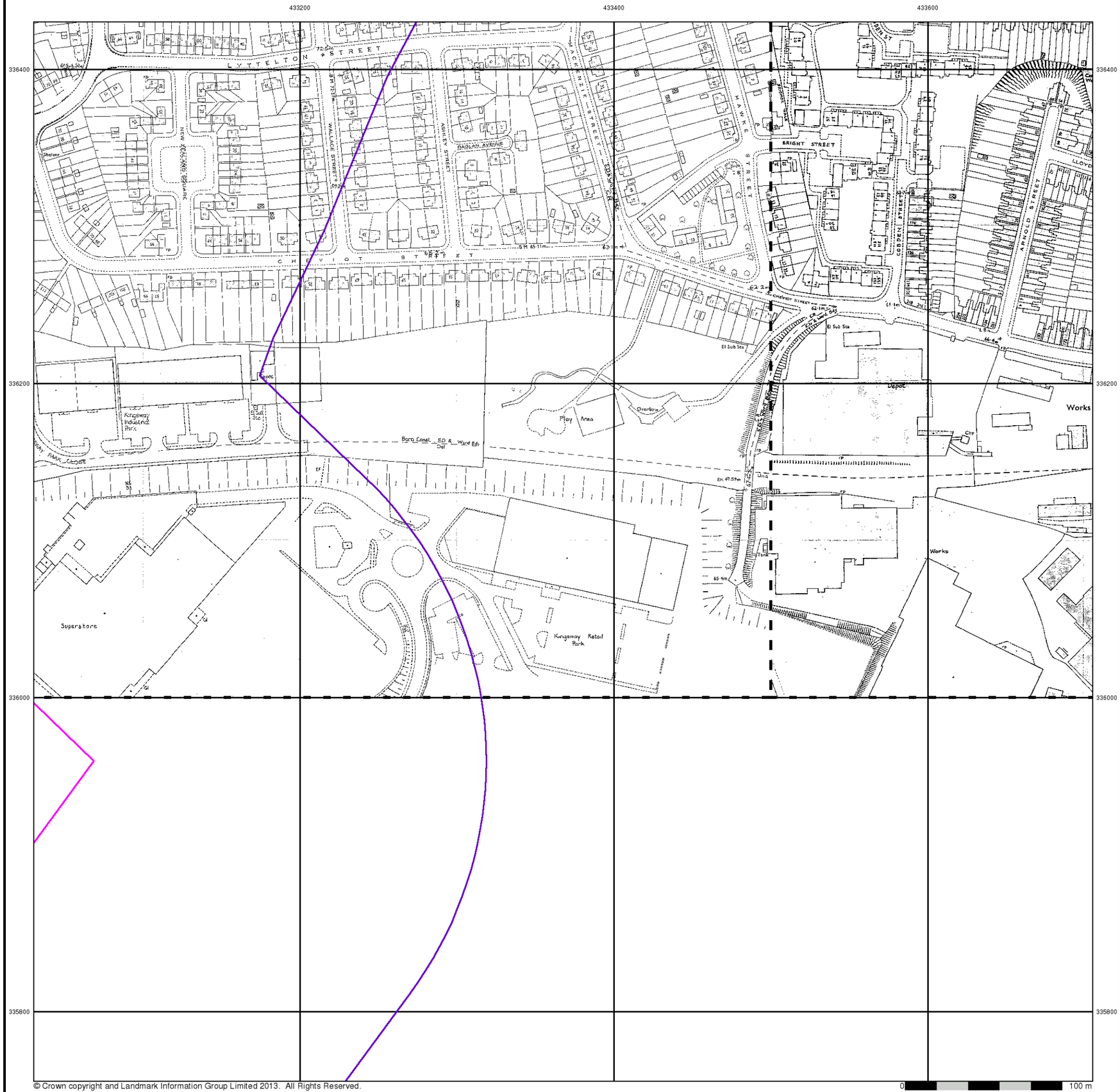
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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
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Additional SIMs

Published 1990 - 1992

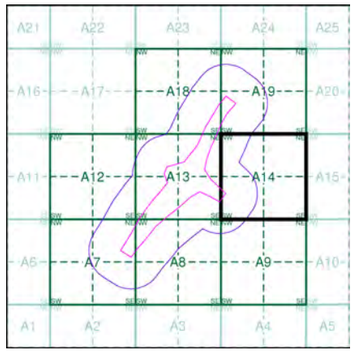
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

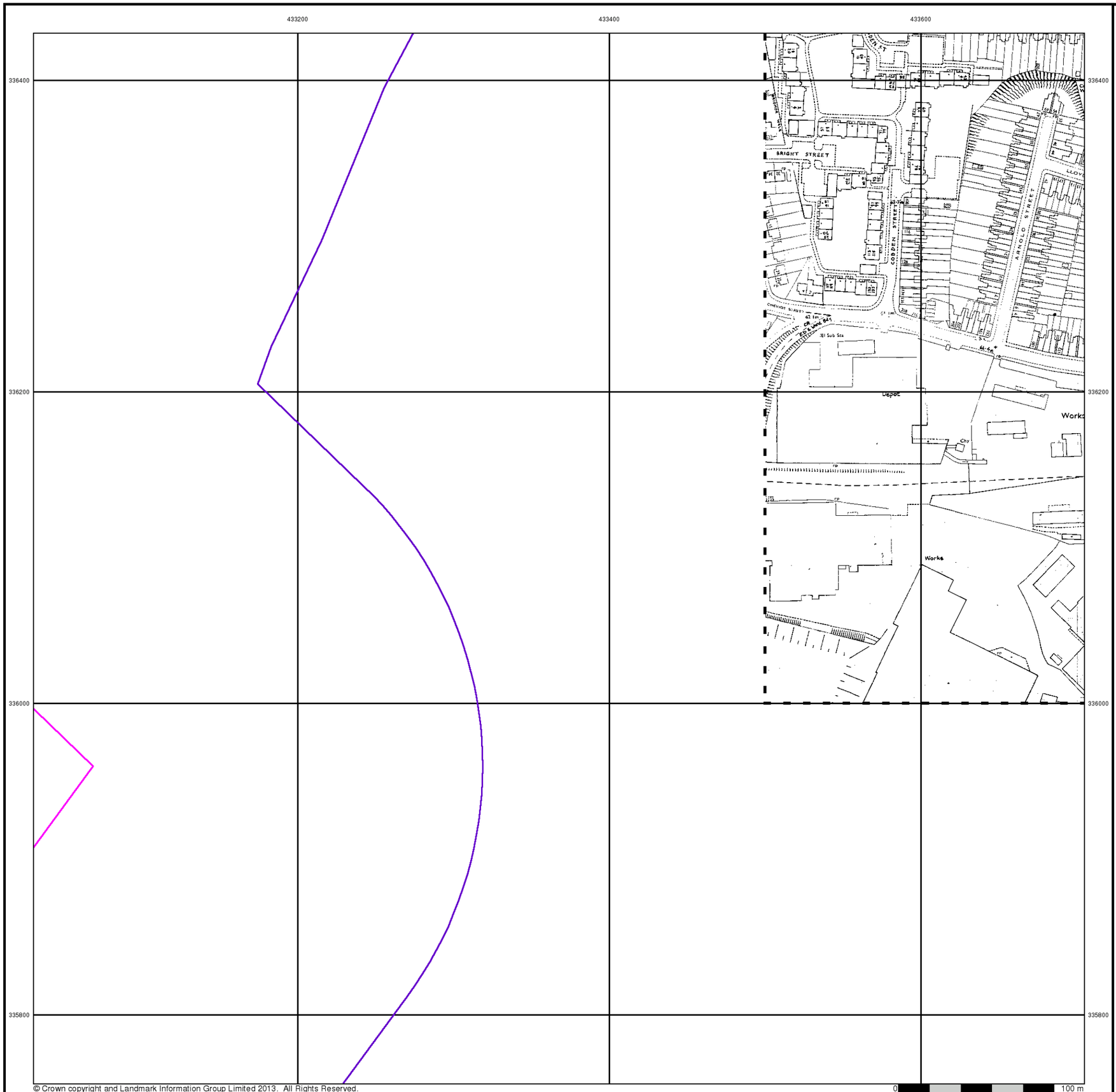
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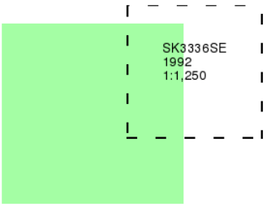
Additional SIMs

Published 1992

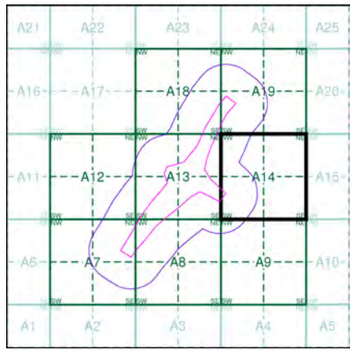
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

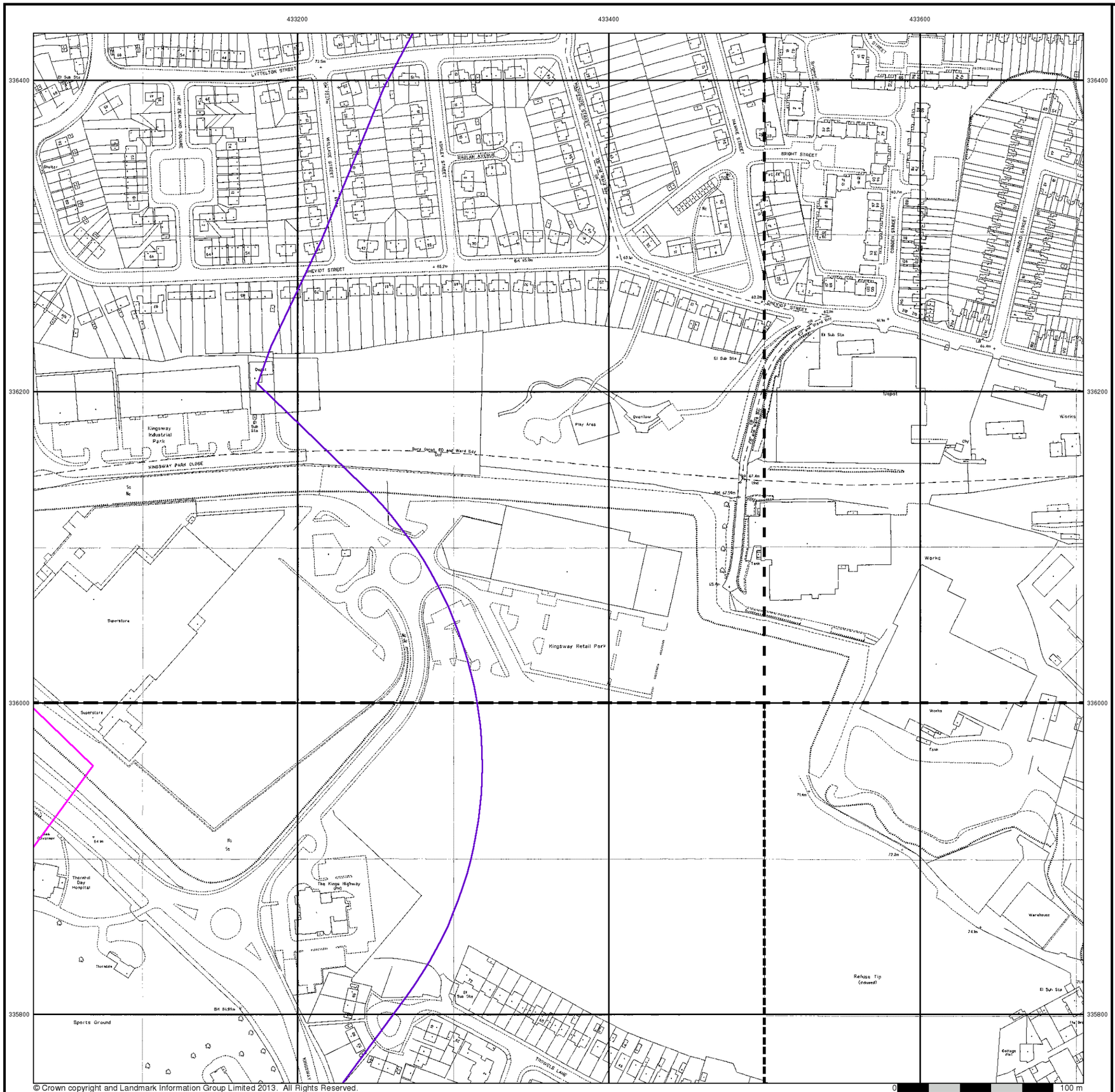
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Large-Scale National Grid Data

Published 1993

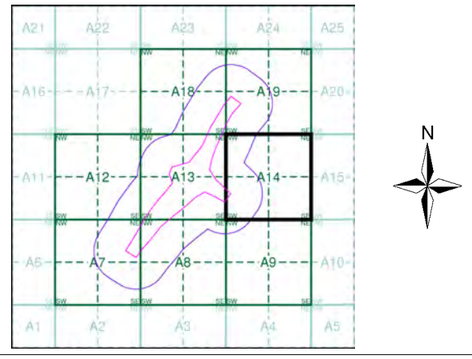
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3336SW 1993 1:1,250	SK3336SE 1993 1:1,250
SK3335NW 1993 1:1,250	SK3335NE 1993 1:1,250

Historical Map - Segment A14



Order Details

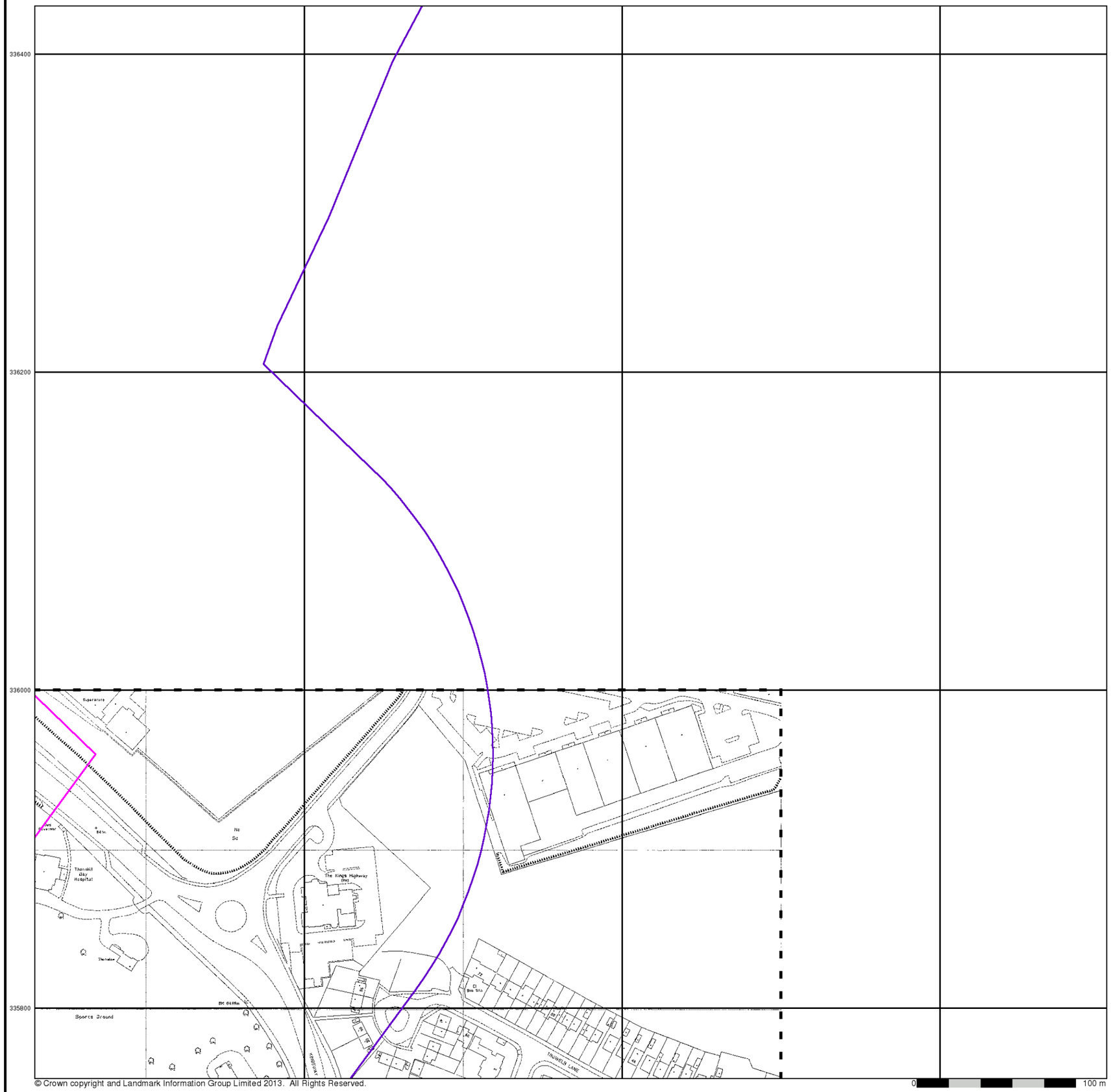
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National Grid Reference:	432740, 336060
Slice:	A
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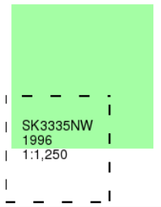
Large-Scale National Grid Data

Published 1996

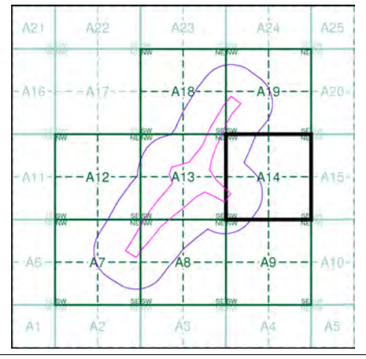
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A14



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
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Site Details

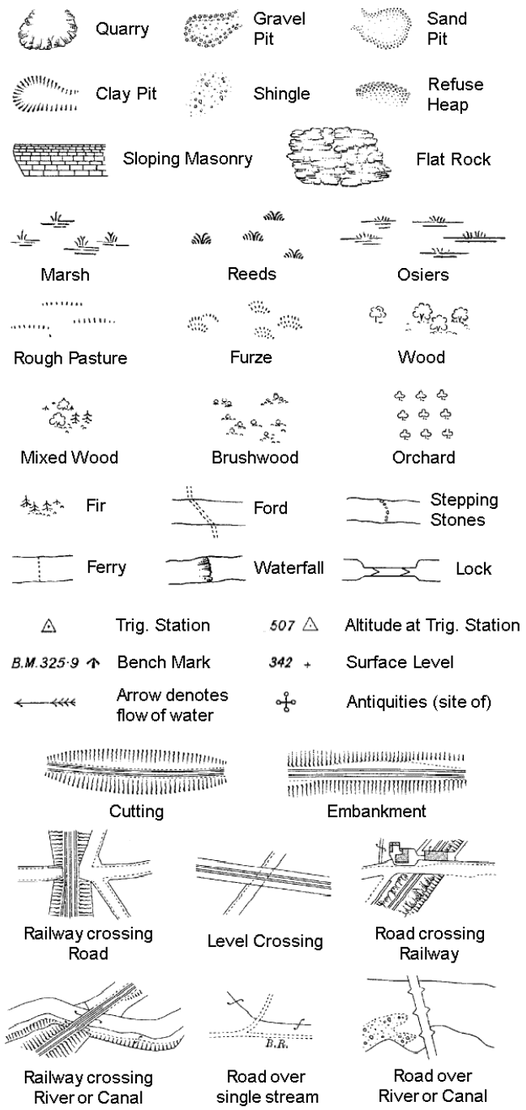
Site at, Derby, City of Derby

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Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)

County & Civil Parish Boundary

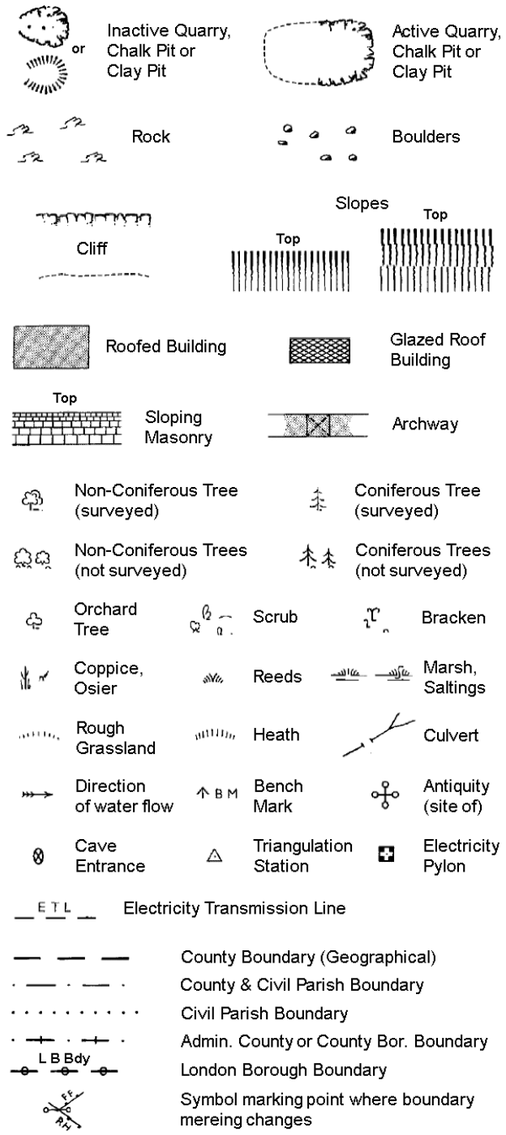
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

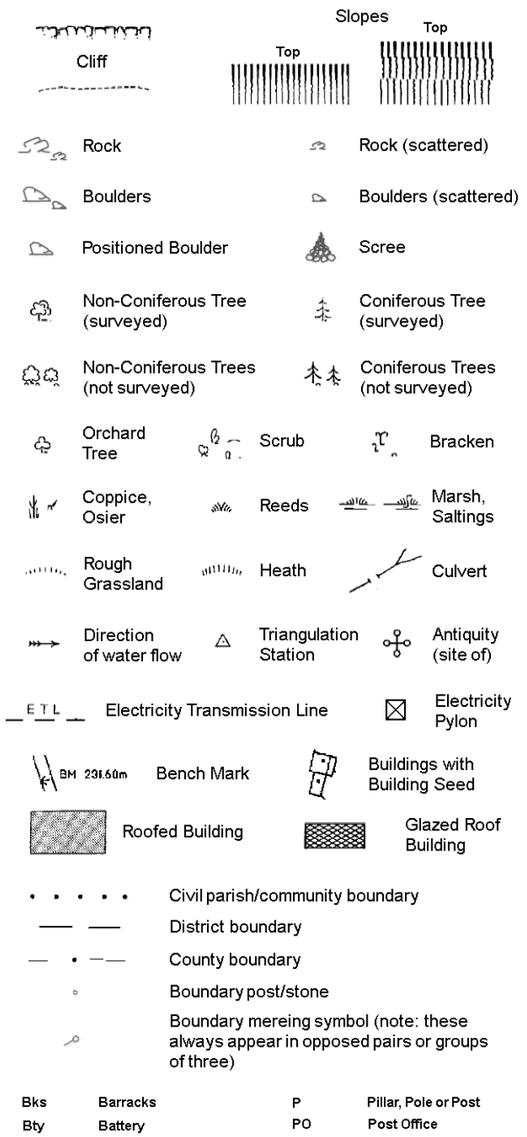
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

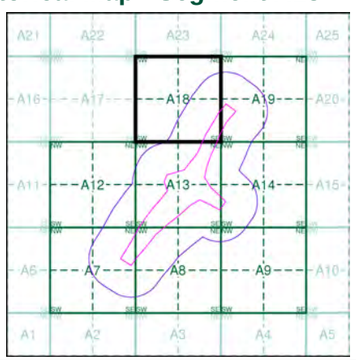
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1914	4
Ordnance Survey Plan	1:1,250	1948 - 1955	5
Ordnance Survey Plan	1:2,500	1951 - 1969	6
Ordnance Survey Plan	1:1,250	1951 - 1971	7
Ordnance Survey Plan	1:1,250	1954 - 1976	8
Ordnance Survey Plan	1:2,500	1959 - 1965	9
Additional SIMs	1:1,250	1964 - 1990	10
Ordnance Survey Plan	1:2,500	1965	11
Ordnance Survey Plan	1:1,250	1966 - 1972	12
Supply of Unpublished Survey Information	1:1,250	1975 - 1976	13
Ordnance Survey Plan	1:1,250	1977	14
Additional SIMs	1:2,500	1990	15
Additional SIMs	1:1,250	1990 - 1992	16
Large-Scale National Grid Data	1:1,250	1993	17
Large-Scale National Grid Data	1:1,250	1994	18

Historical Map - Segment A18



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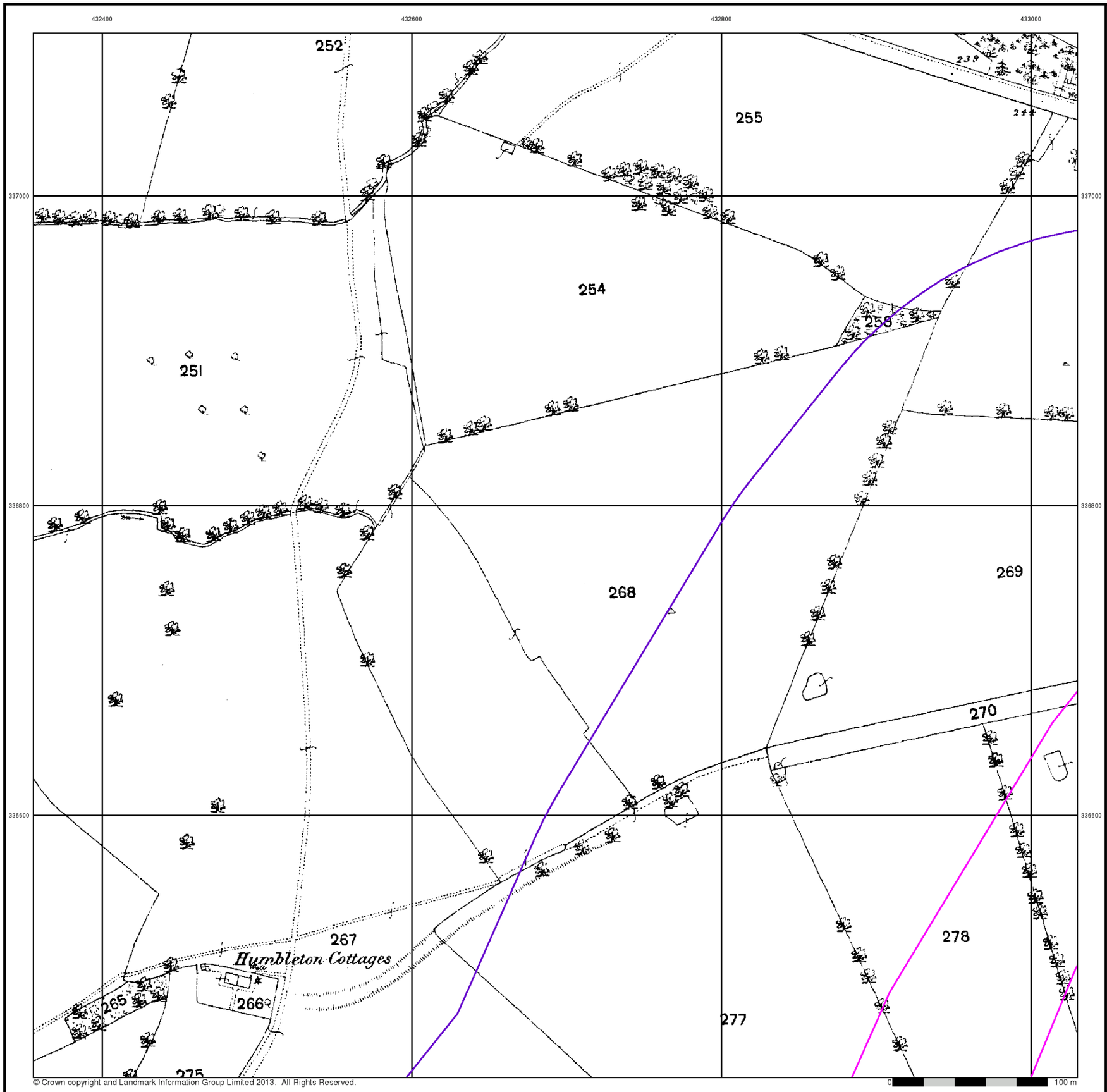
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National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

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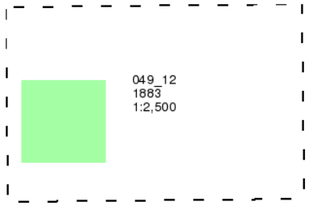
Derbyshire

Published 1883

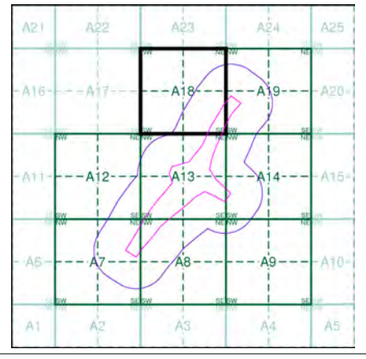
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A18



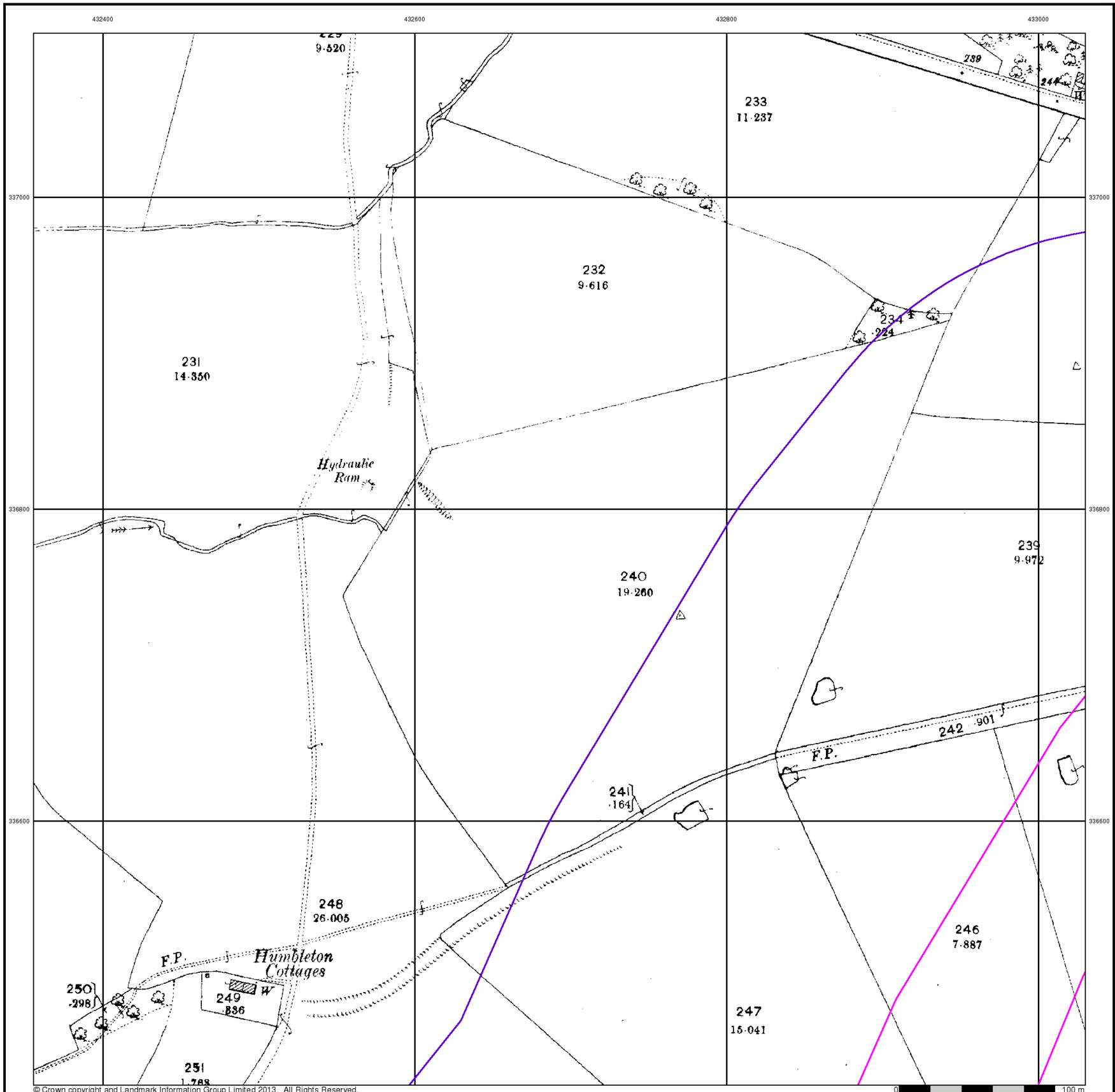
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Derbyshire

Published 1901

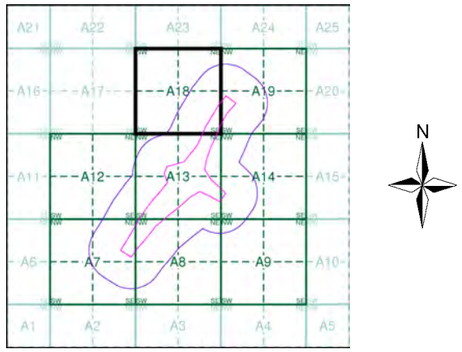
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Map Name(s) and Date(s)

049_12
1901
1:2,500

Historical Map - Segment A18



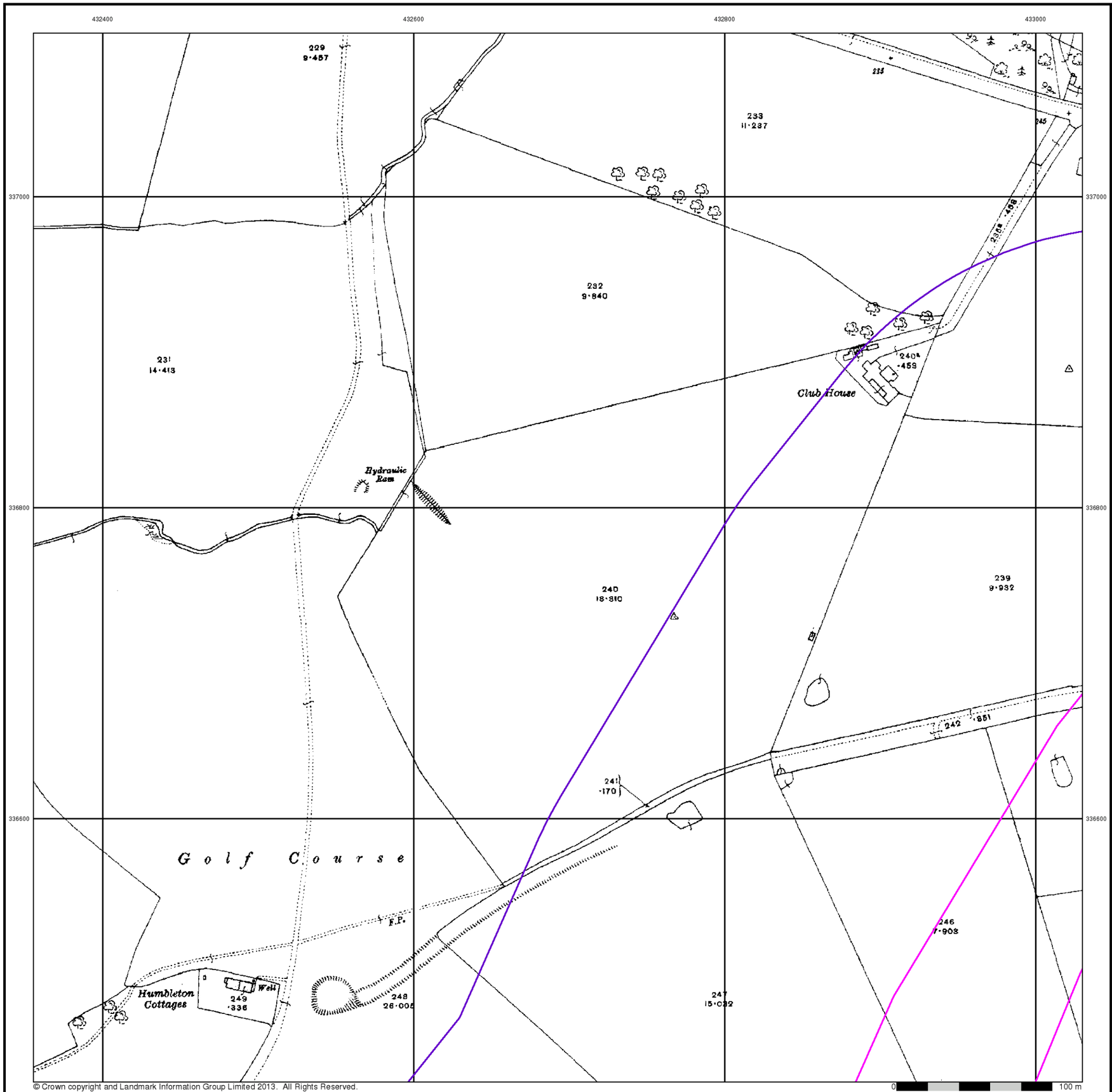
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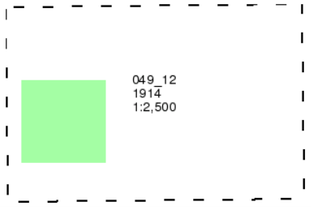
Derbyshire

Published 1914

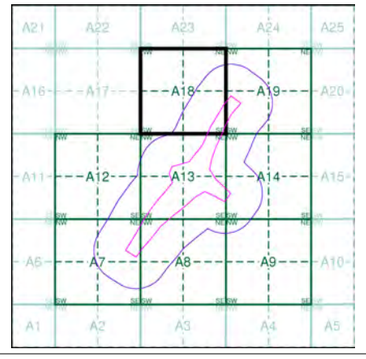
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A18



Order Details

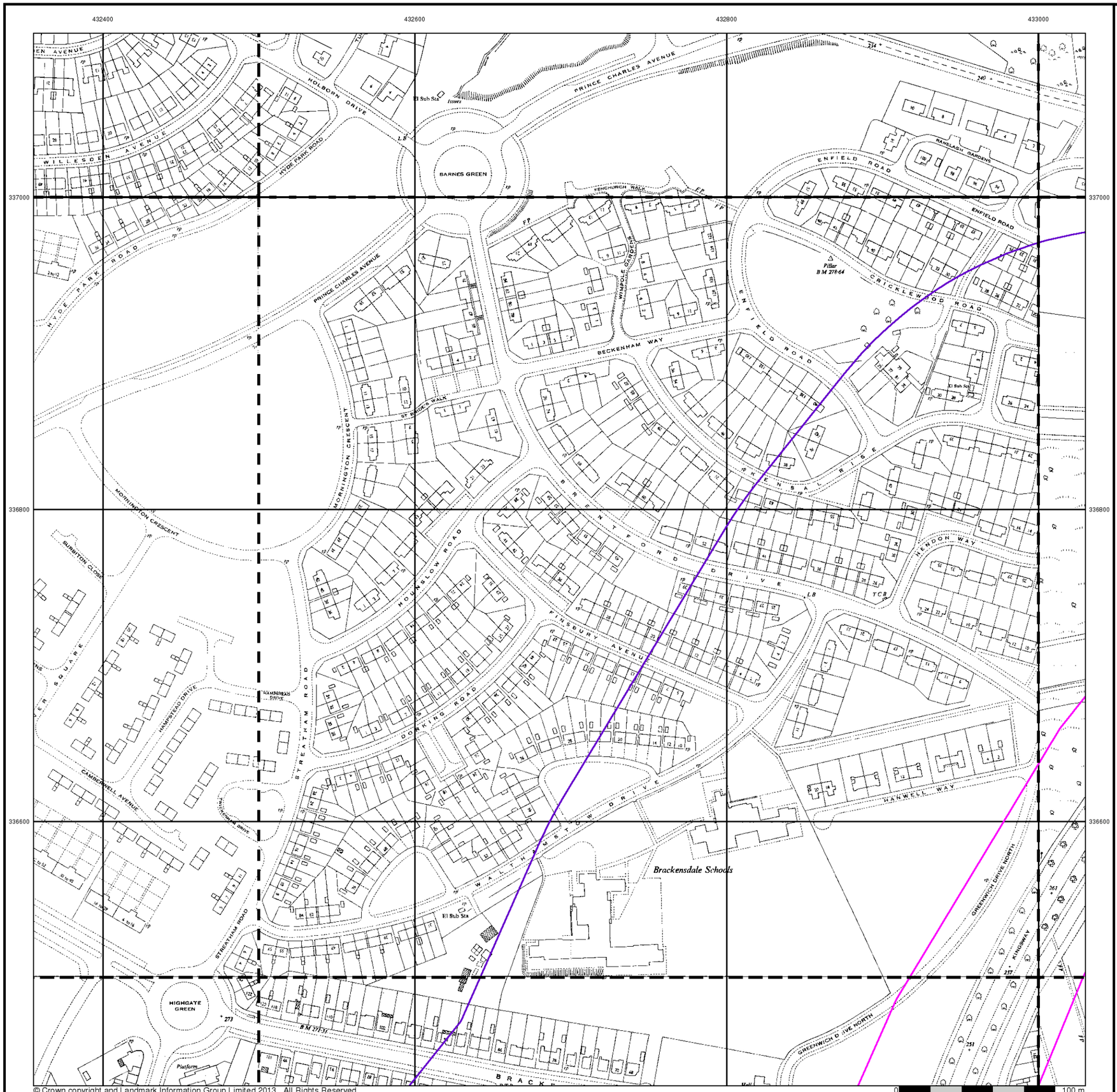
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Ordnance Survey Plan

Published 1948 - 1955

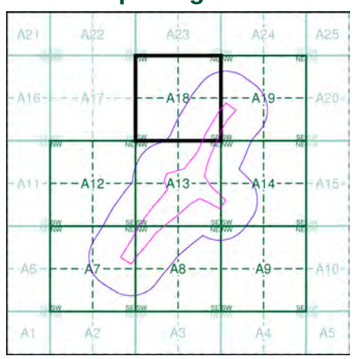
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3237SW 1955 1:1,250	SK3237SE 1955 1:1,250	SK3337SW 1955 1:1,250
SK3236NW 1955 1:1,250	SK3236NE 1955 1:1,250	SK3336NW 1948 1:1,250
SK3236SW 1955 1:1,250	SK3236SE 1955 1:1,250	SK3336SW 1948 1:1,250

Historical Map - Segment A18



Order Details

Order Number:	60387304_1_1
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Slice:	A
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Ordnance Survey Plan

Published 1951 - 1969

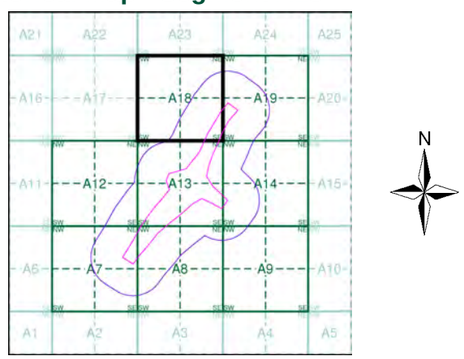
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3237 1969 1:2,500	SK3337 1969 1:2,500
SK3236 1955 1:2,500	SK3336 1951 1:2,500

Historical Map - Segment A18



Order Details

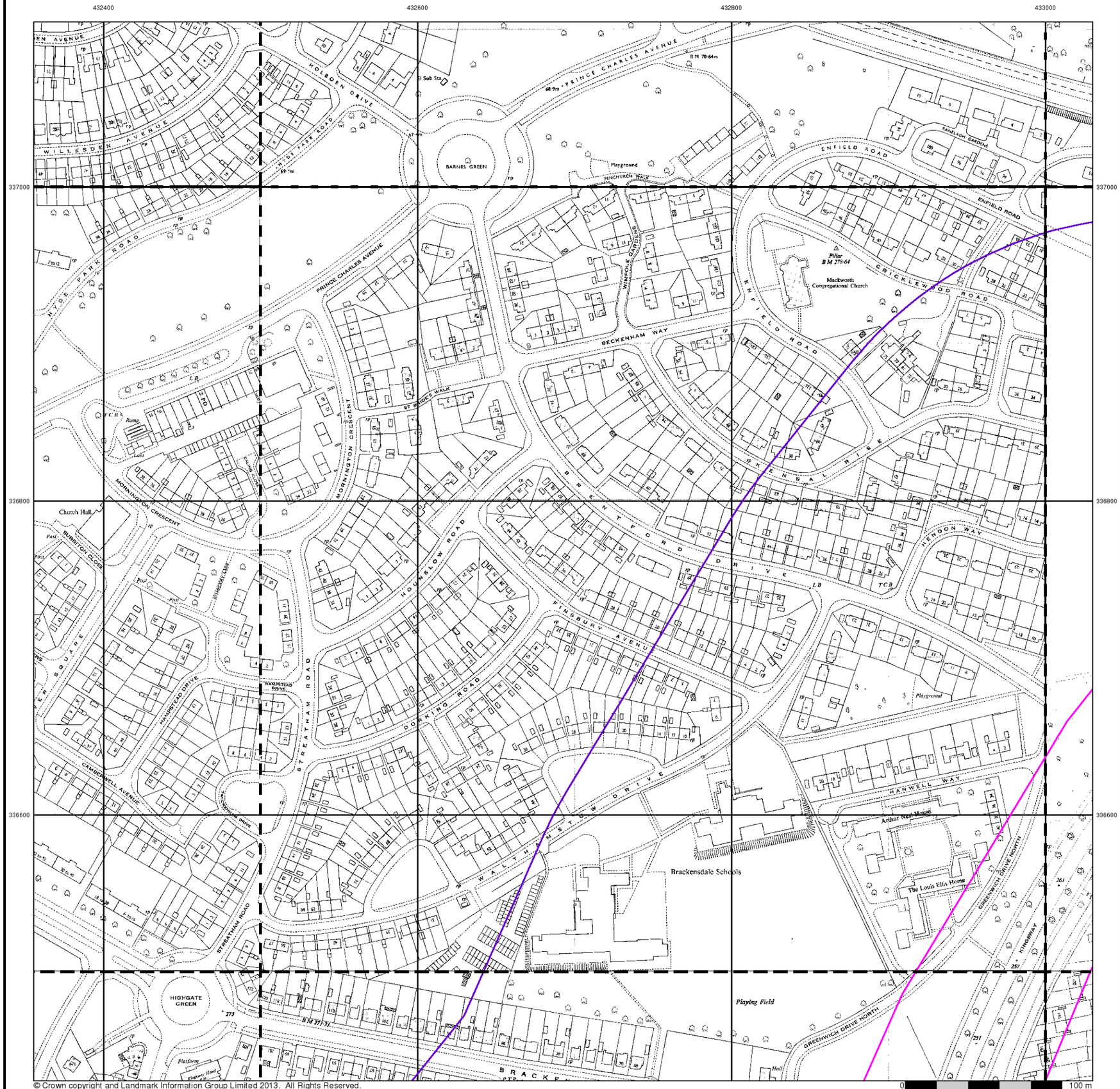
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Ordnance Survey Plan

Published 1951 - 1971

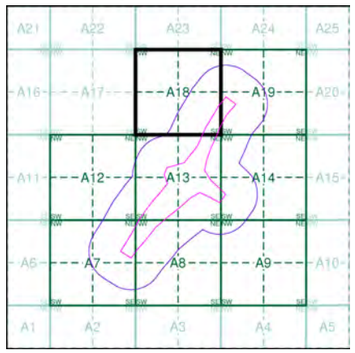
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3237SW	SK3237SE	SK3337SW
1971	1970	1965
1:1,250	1:1,250	1:1,250
SK3236NW	**SK3236NE**	**SK3336NW**
1964	1964	1951
1:1,250	1:1,250	1:1,250
SK3236SW	SK3236SE	SK3336SW
1964	1958	1953
1:1,250	1:1,250	1:1,250

Historical Map - Segment A18



Order Details

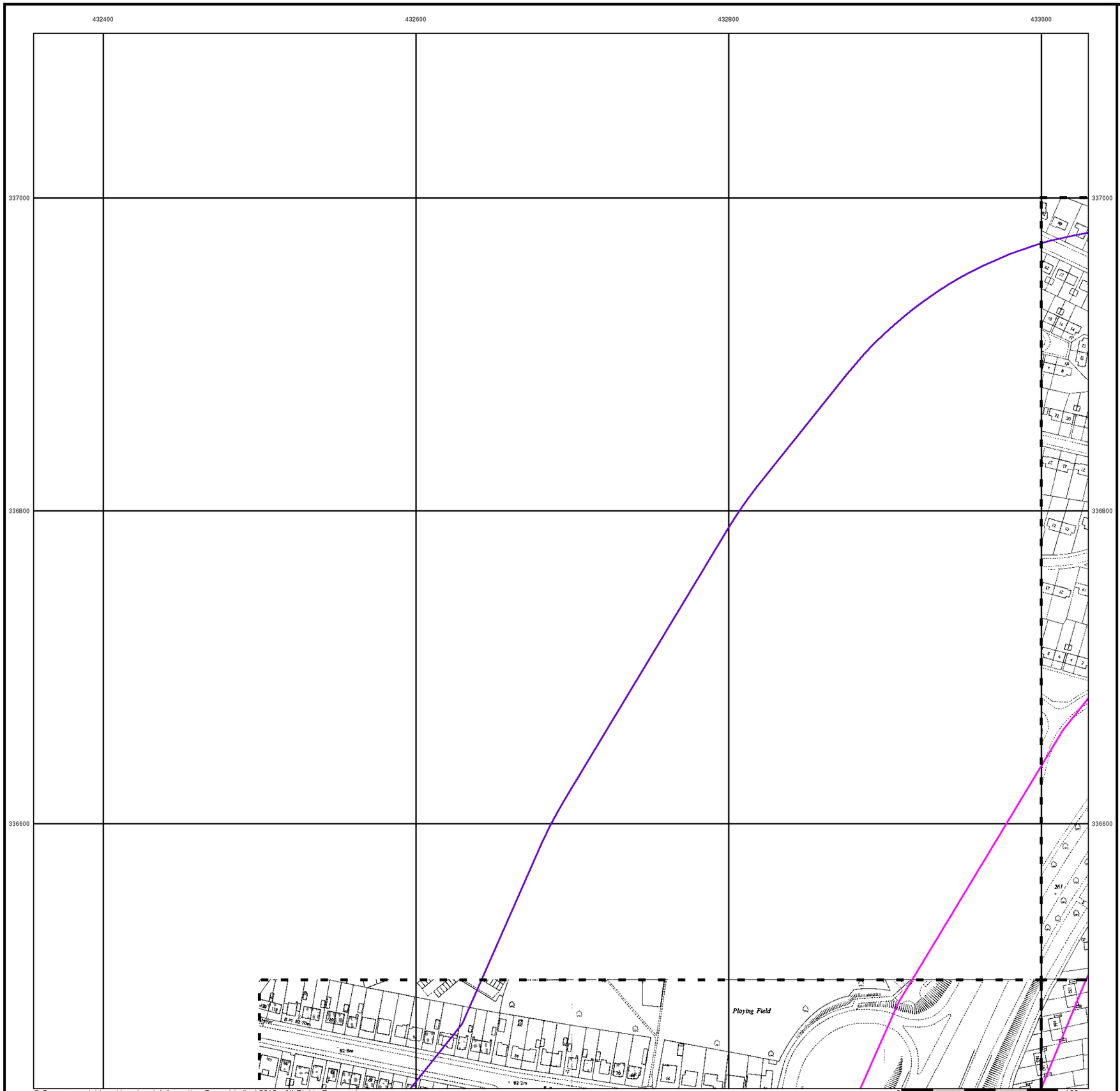
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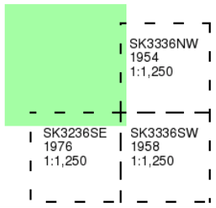
Ordnance Survey Plan

Published 1954 - 1976

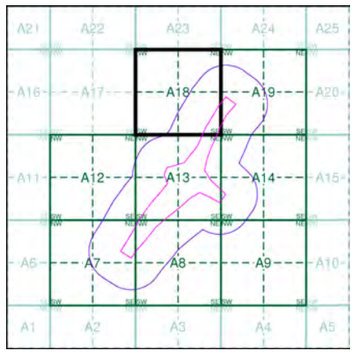
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A18



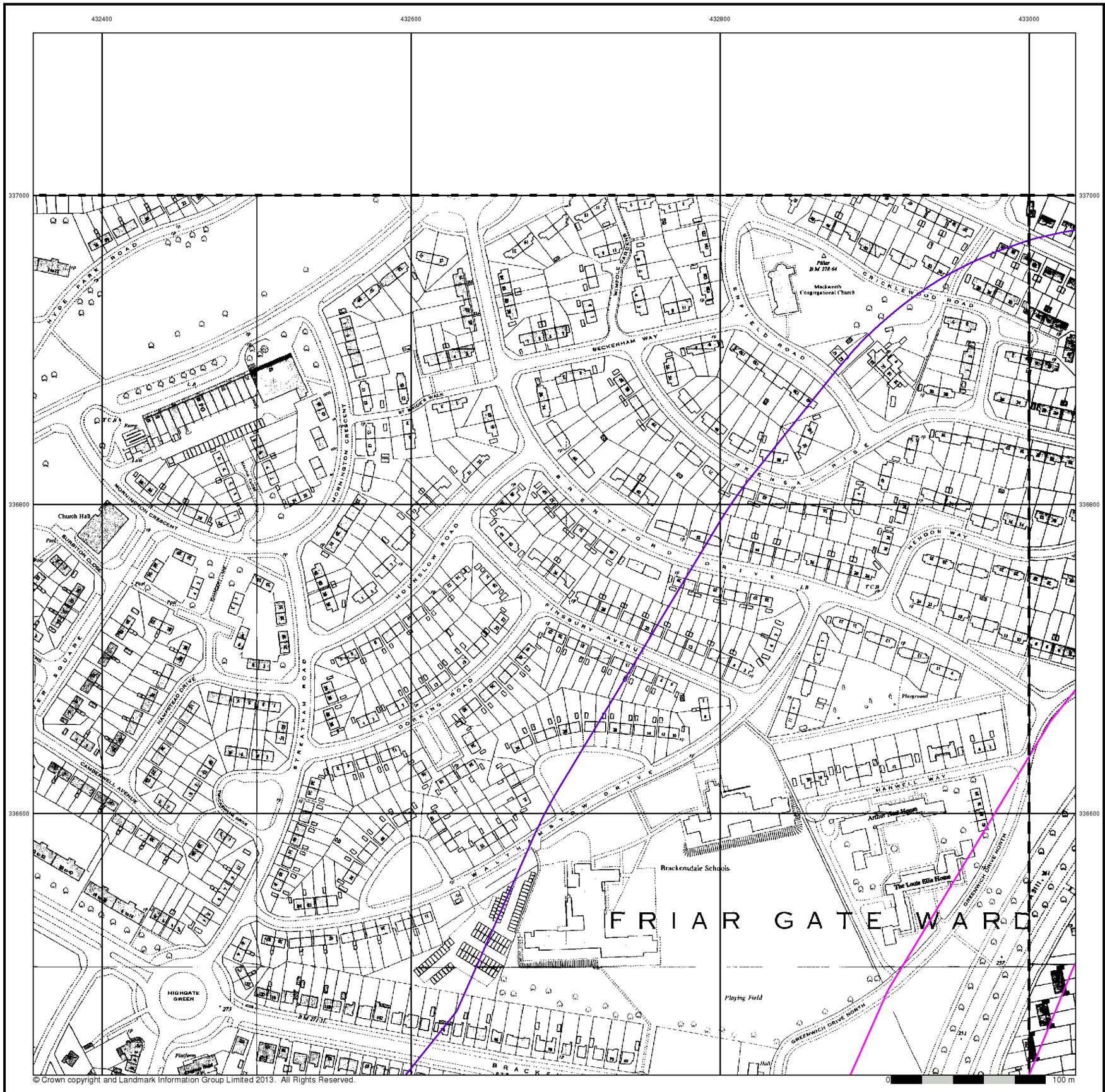
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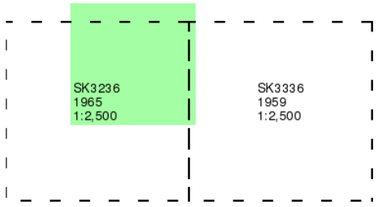
Ordnance Survey Plan

Published 1959 - 1965

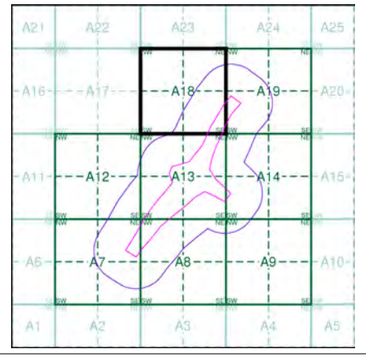
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Map Name(s) and Date(s)



Historical Map - Segment A18



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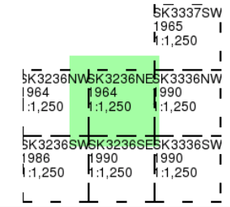
Additional SIMs

Published 1964 - 1990

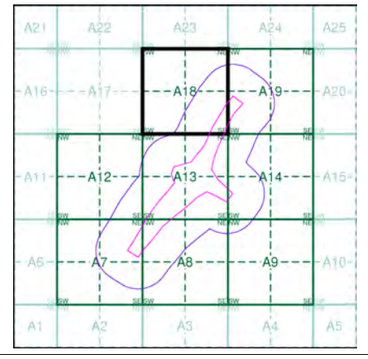
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A18



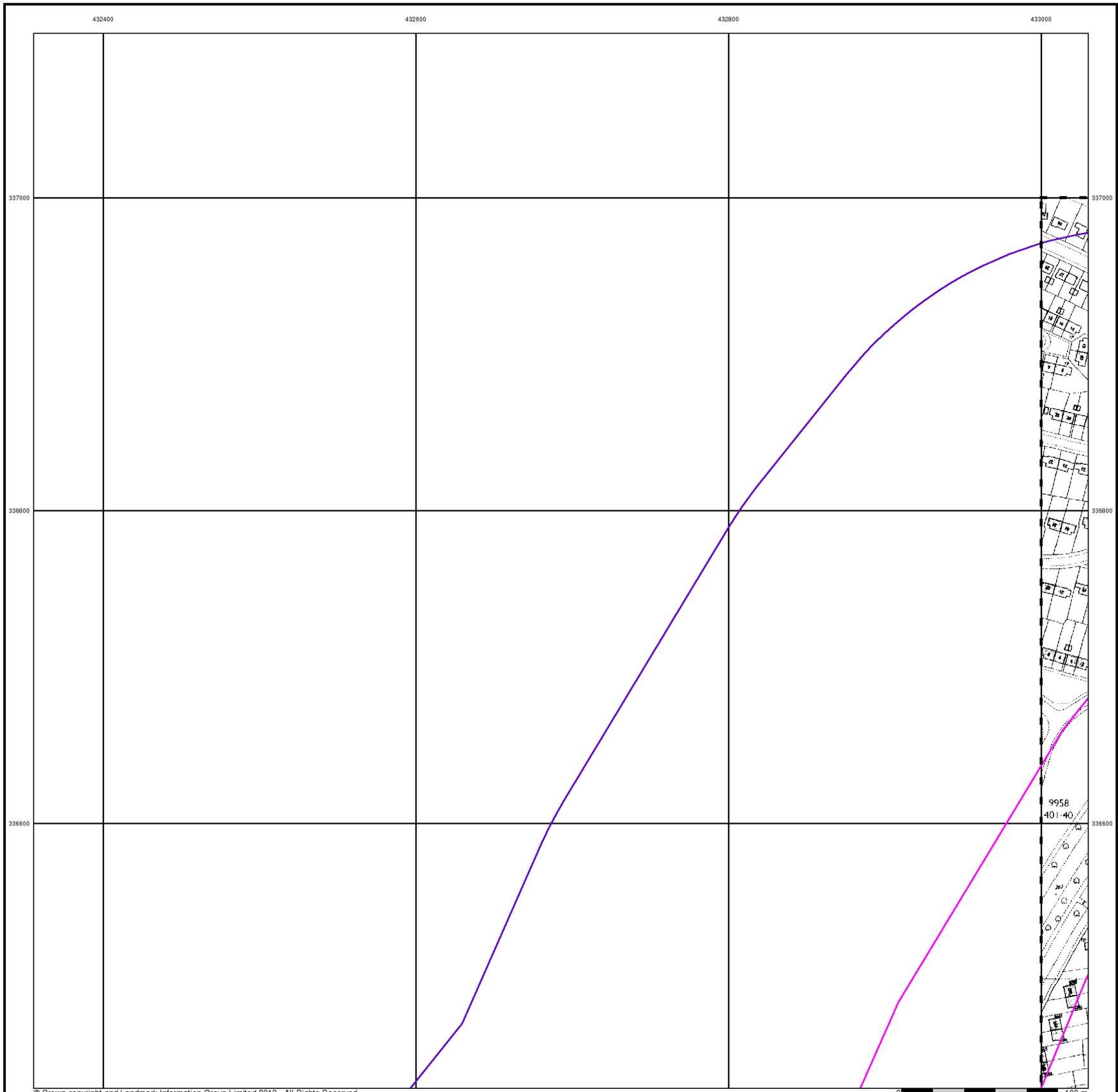
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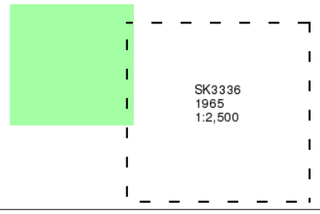
Ordnance Survey Plan

Published 1965

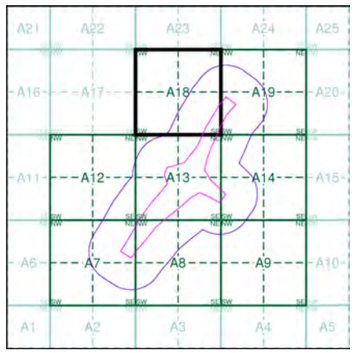
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Map Name(s) and Date(s)



Historical Map - Segment A18



Order Details

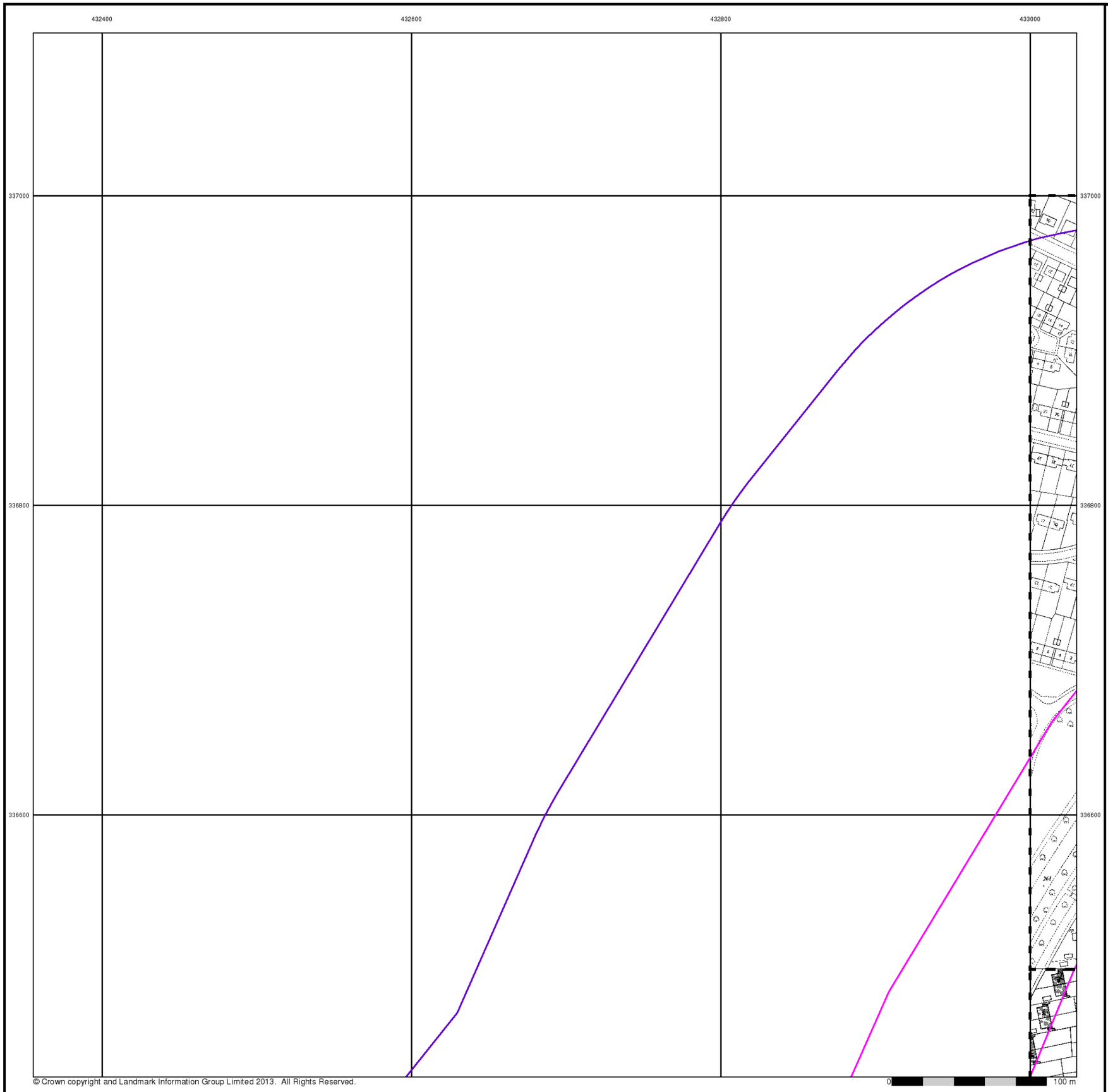
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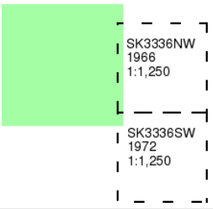
Ordnance Survey Plan

Published 1966 - 1972

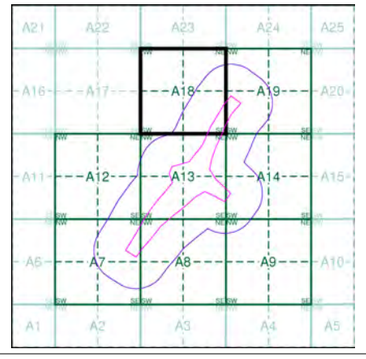
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A18



Order Details

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Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Supply of Unpublished Survey Information

Published 1975 - 1976

Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

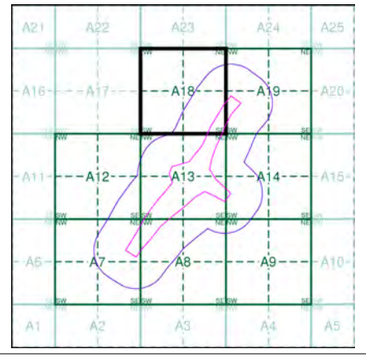
Map Name(s) and Date(s)

SK3236NE 1975 1:1,250

SK3236SW 1976 1:1,250

SK3236SE 1975 1:1,250

Historical Map - Segment A18



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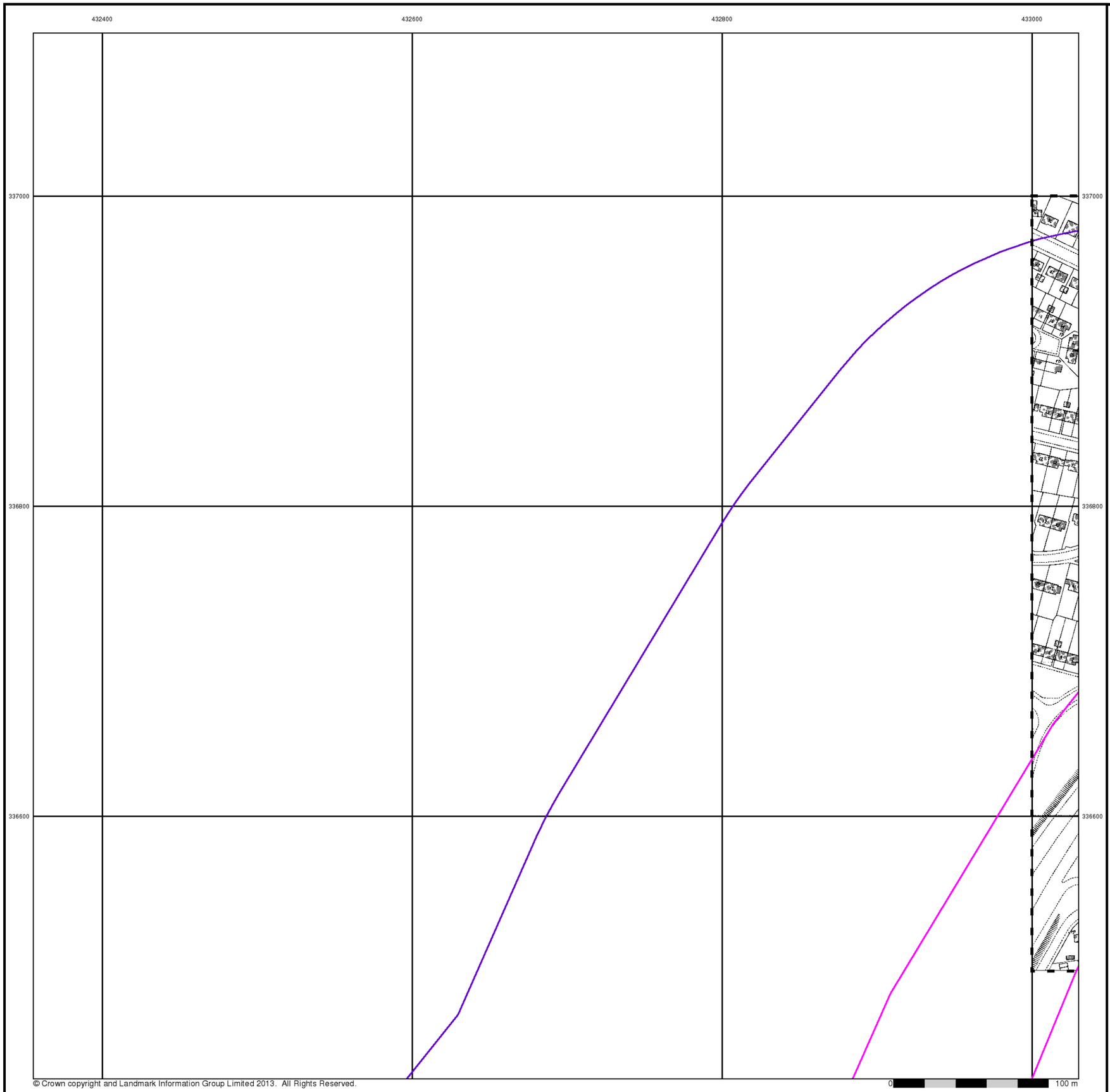
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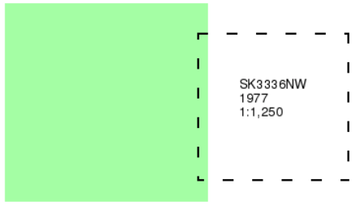
Ordnance Survey Plan

Published 1977

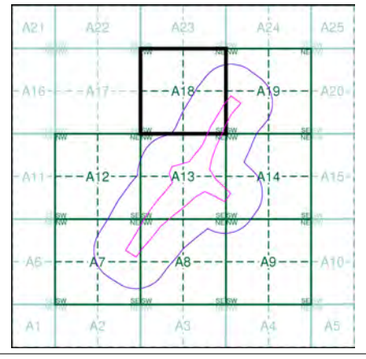
Source map scale - 1:1,250

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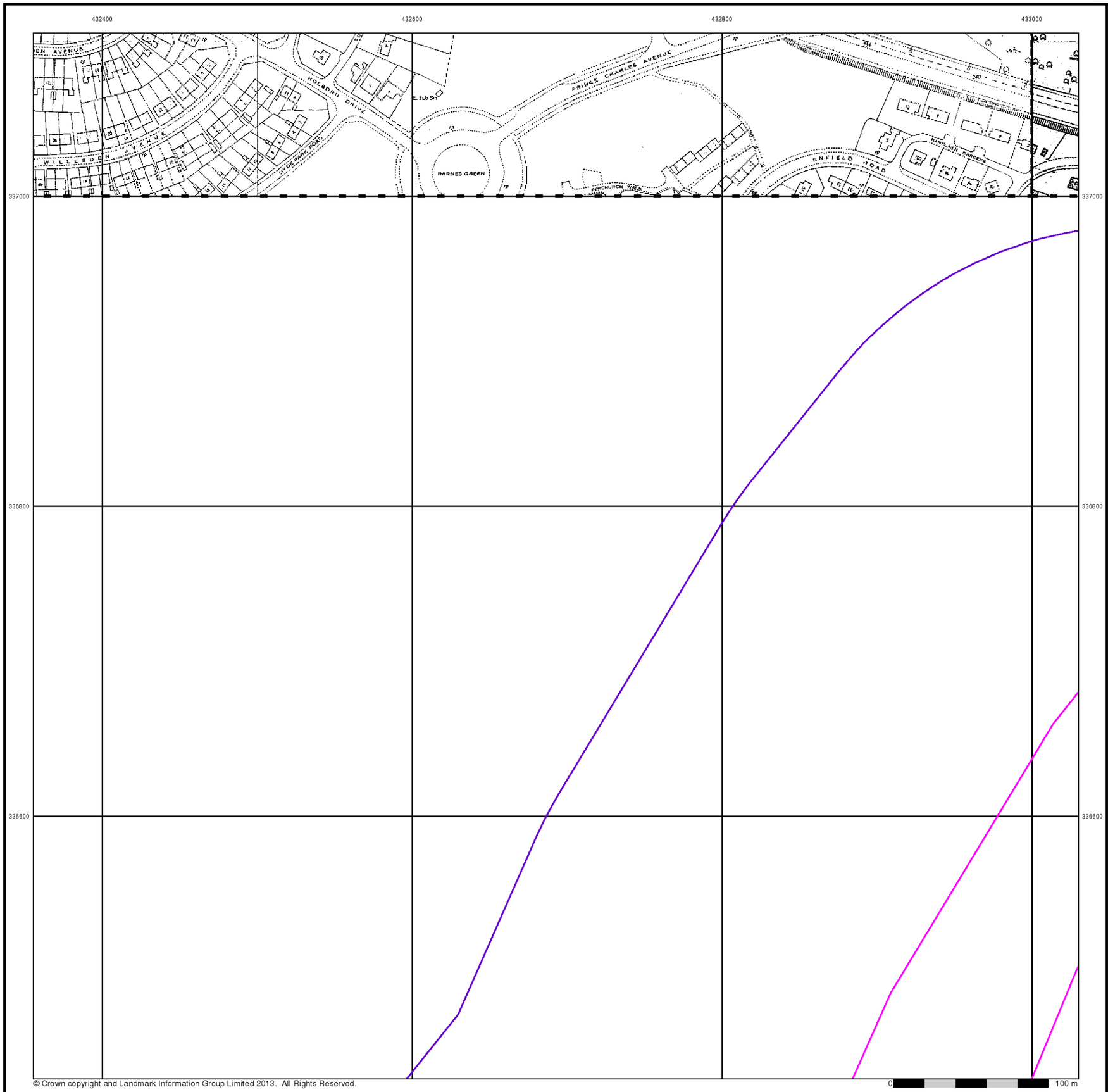
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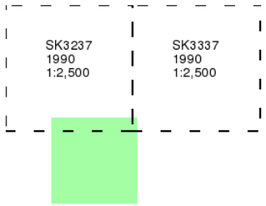
Additional SIMs

Published 1990

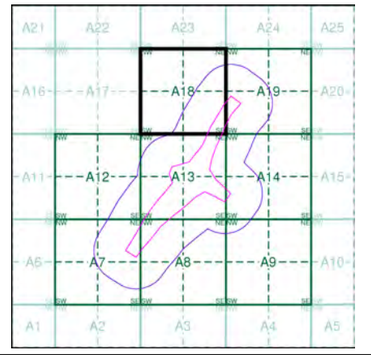
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A18



Order Details

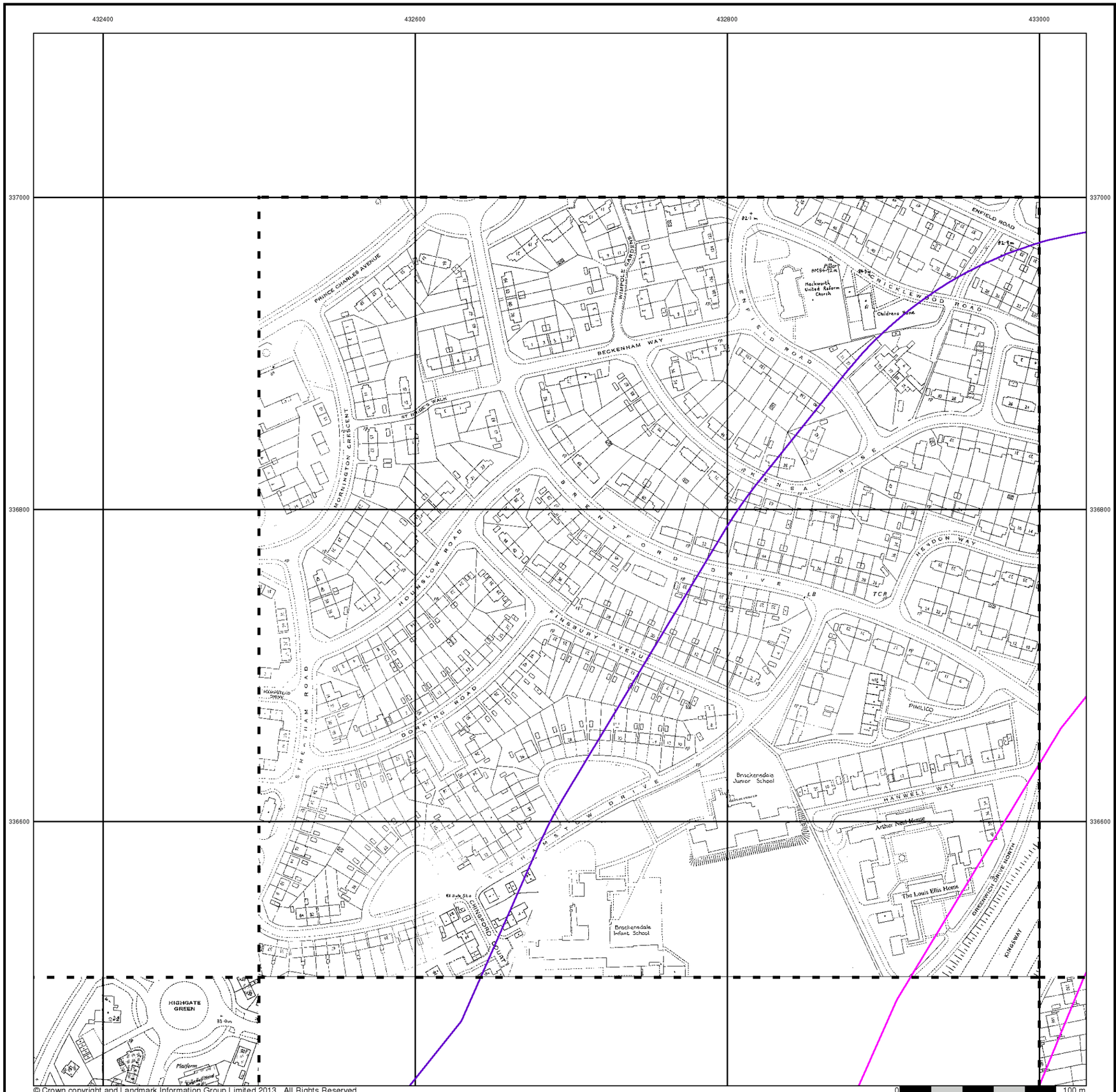
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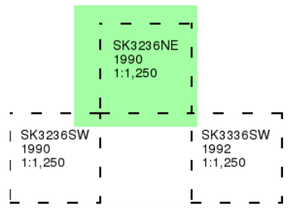
Additional SIMs

Published 1990 - 1992

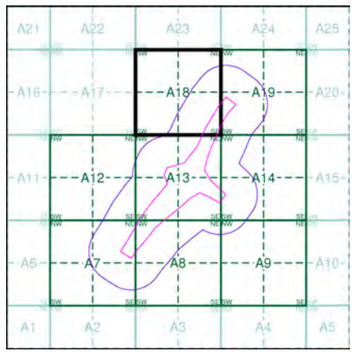
Source map scale - 1:1,250

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Map Name(s) and Date(s)



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Large-Scale National Grid Data

Published 1993

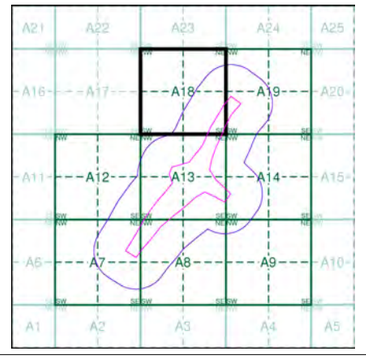
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A18



Order Details

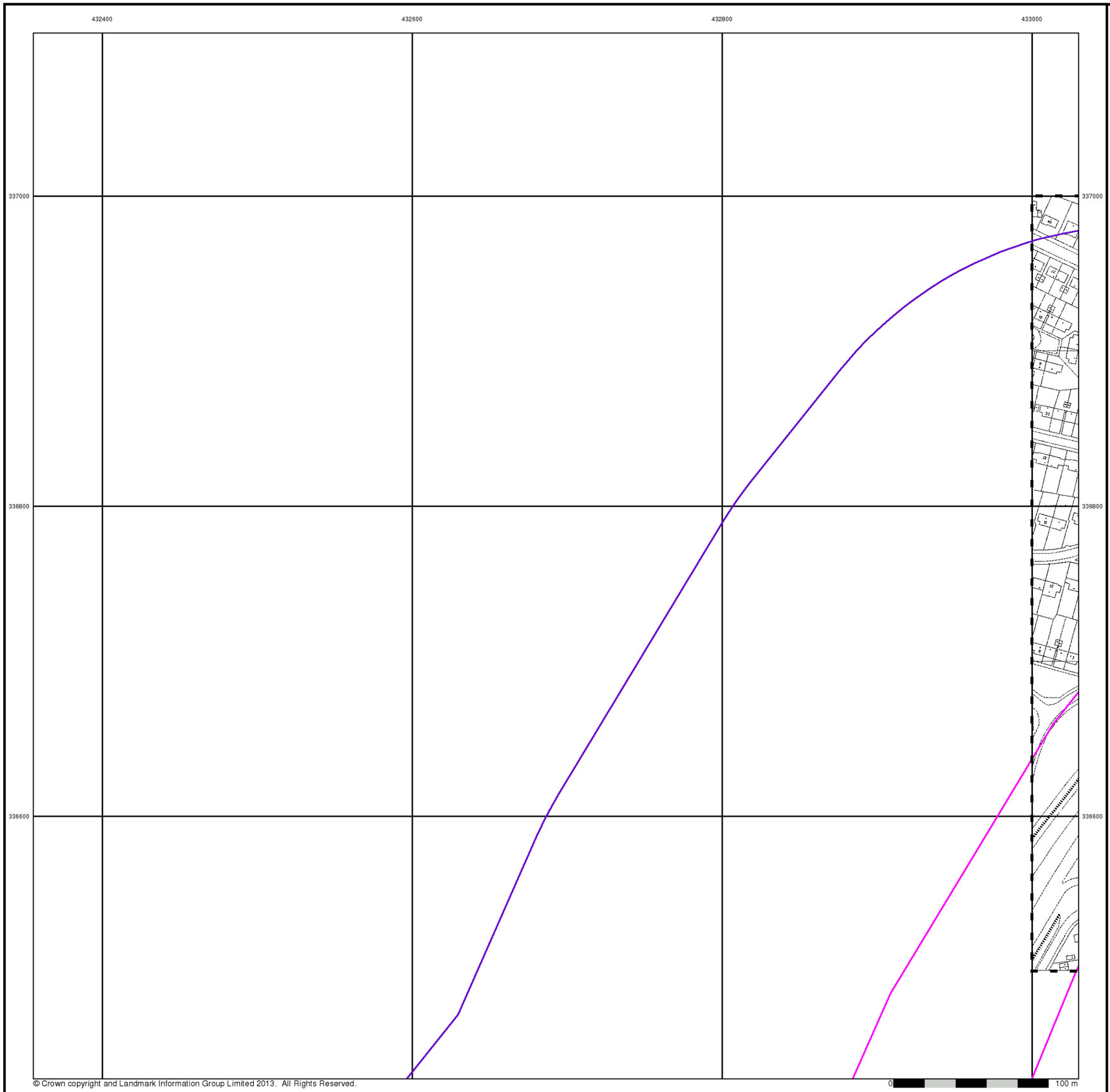
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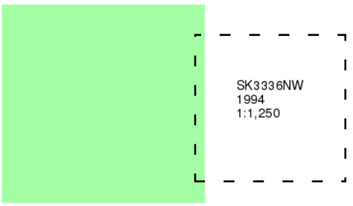
Large-Scale National Grid Data

Published 1994

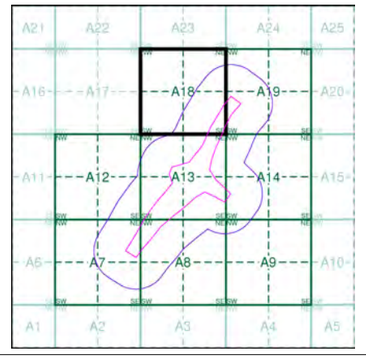
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A18



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Customer Ref:	47071637.208APS
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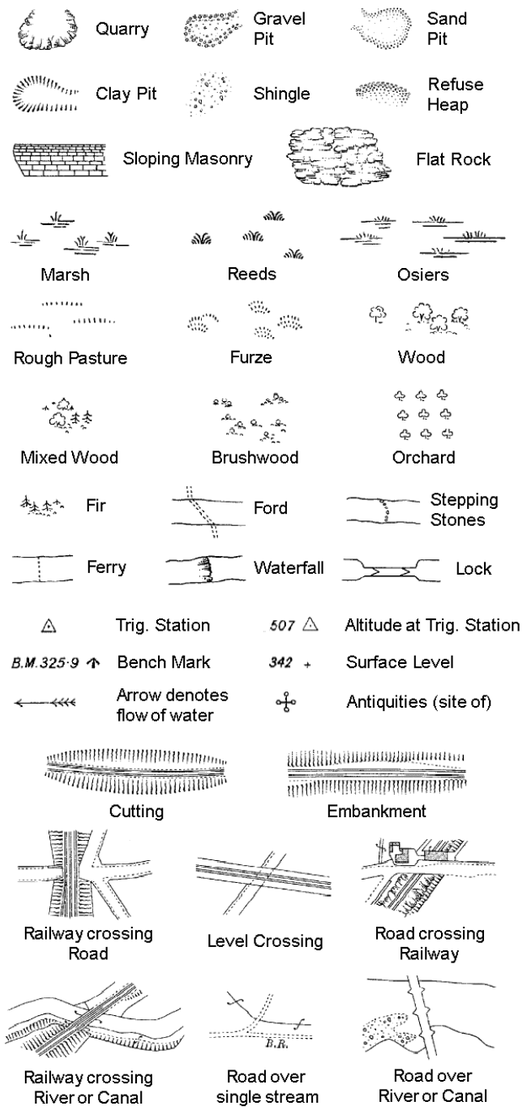
Site at, Derby, City of Derby

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Historical Mapping Legends

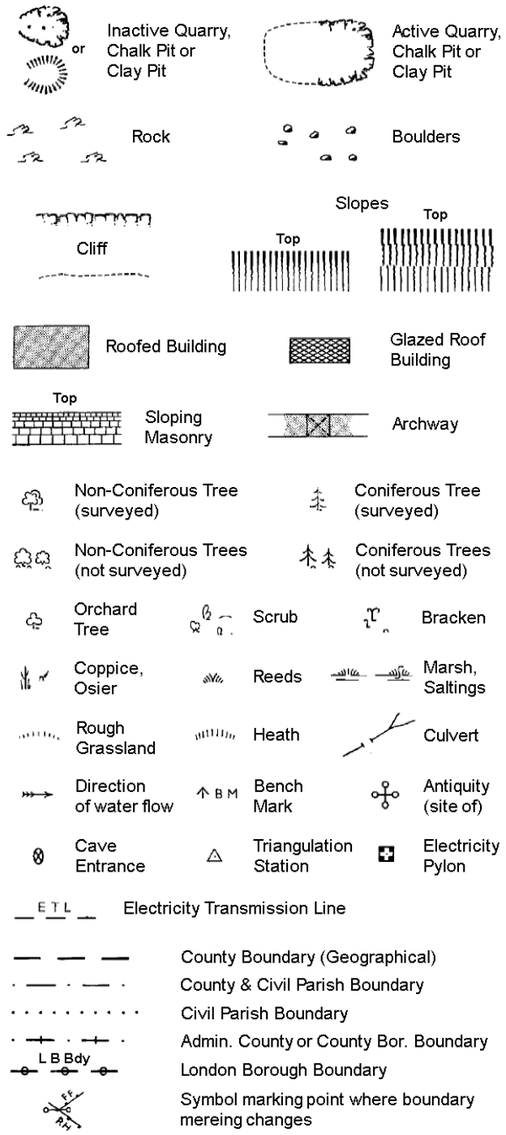
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

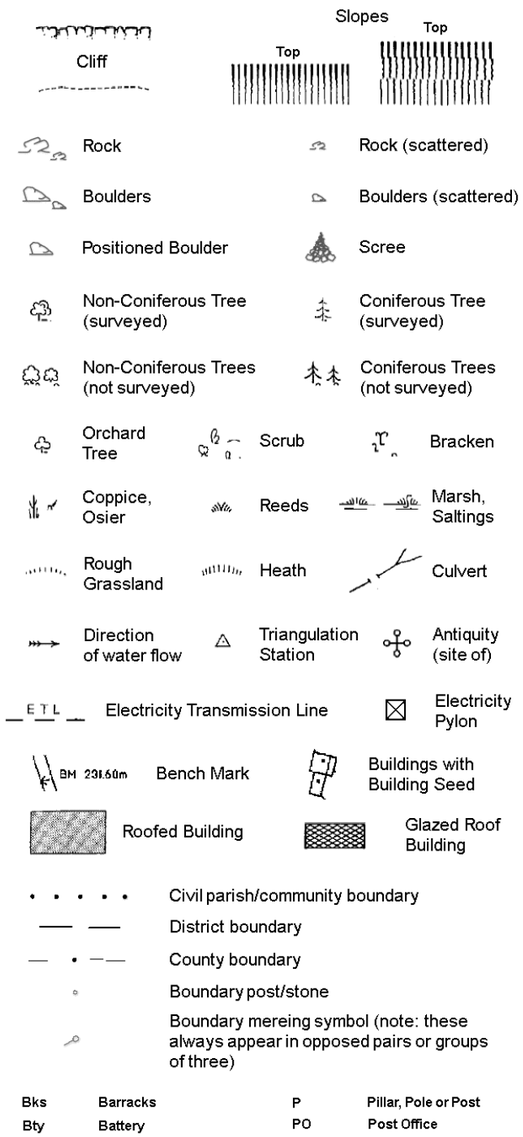
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

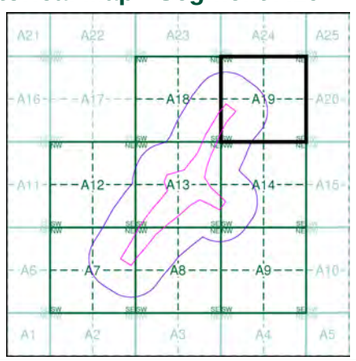
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1914	4
Ordnance Survey Plan	1:1,250	1948 - 1955	5
Ordnance Survey Plan	1:2,500	1951 - 1969	6
Ordnance Survey Plan	1:1,250	1951 - 1966	7
Ordnance Survey Plan	1:1,250	1951 - 1973	8
Ordnance Survey Plan	1:2,500	1959	9
Ordnance Survey Plan	1:2,500	1965	10
Ordnance Survey Plan	1:1,250	1965 - 1972	11
Additional SIMs	1:1,250	1965 - 1990	12
Ordnance Survey Plan	1:1,250	1977	13
Additional SIMs	1:1,250	1987 - 1992	14
Additional SIMs	1:2,500	1990	15
Additional SIMs	1:1,250	1990 - 1992	16
Large-Scale National Grid Data	1:1,250	1993	17
Large-Scale National Grid Data	1:1,250	1994	18

Historical Map - Segment A19



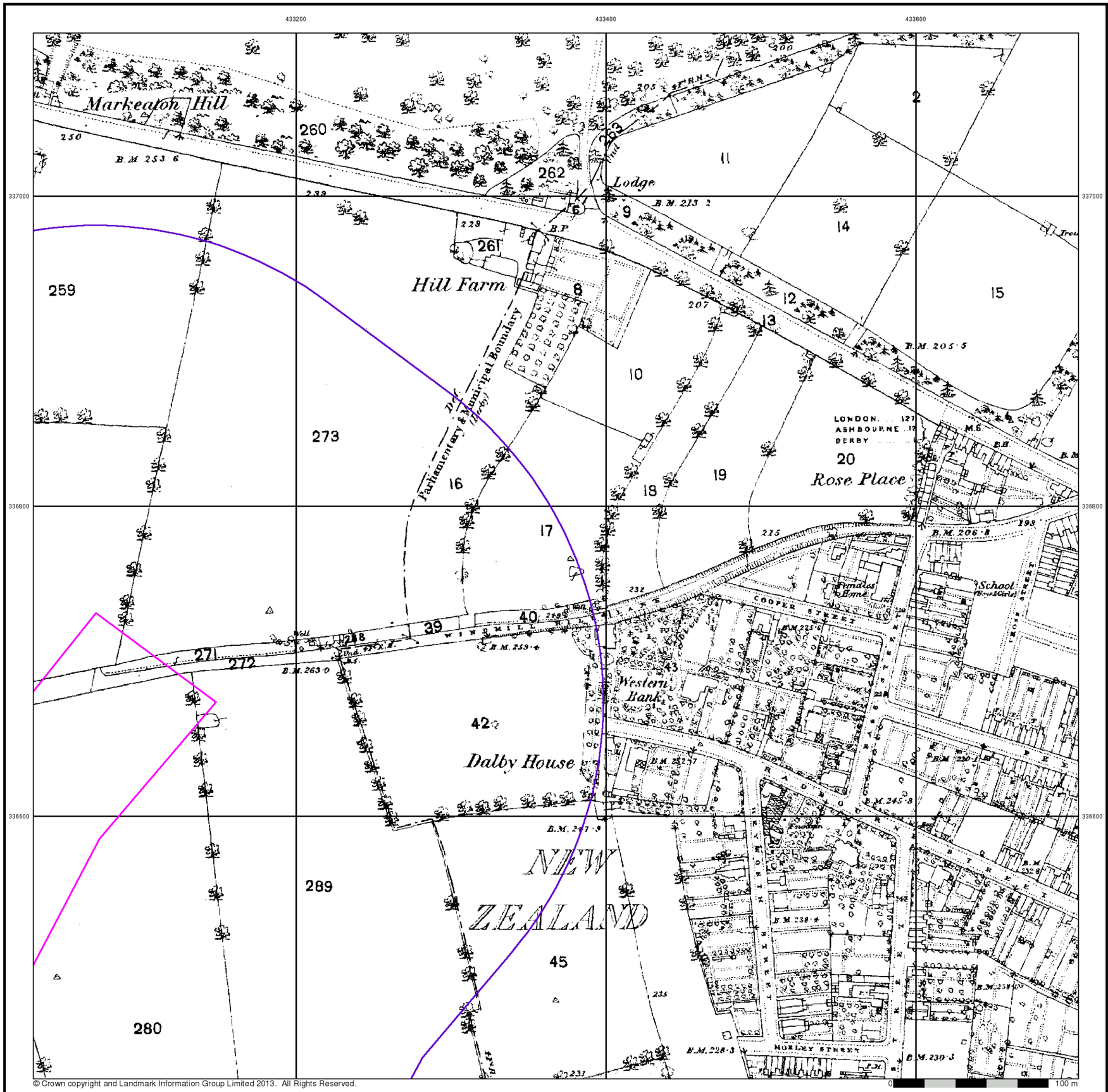
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Slice:	A
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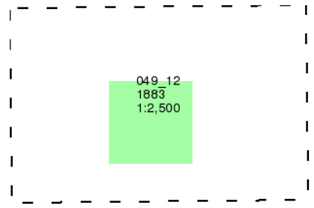
Derbyshire

Published 1883

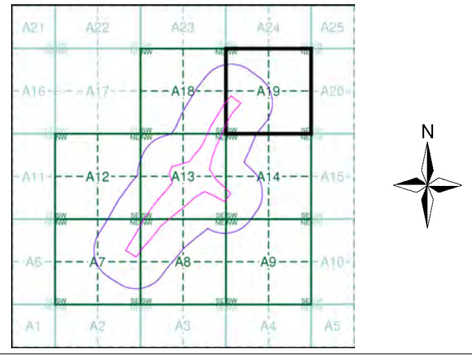
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A19



Order Details

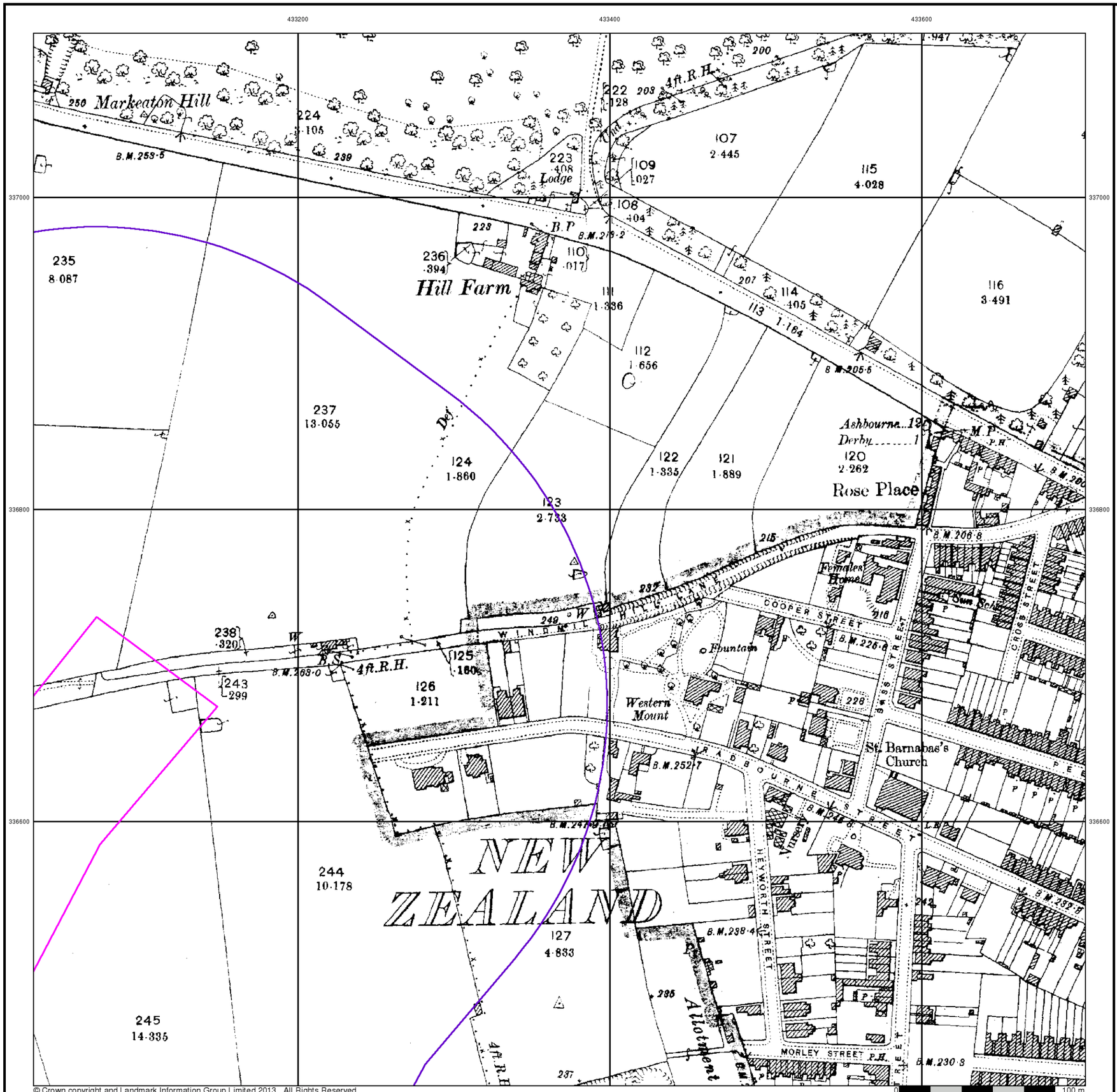
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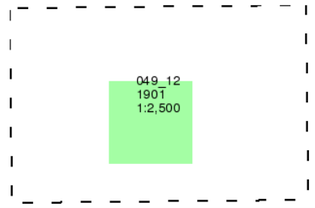
Derbyshire

Published 1901

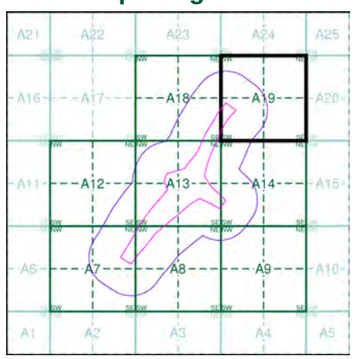
Source map scale - 1:2,500

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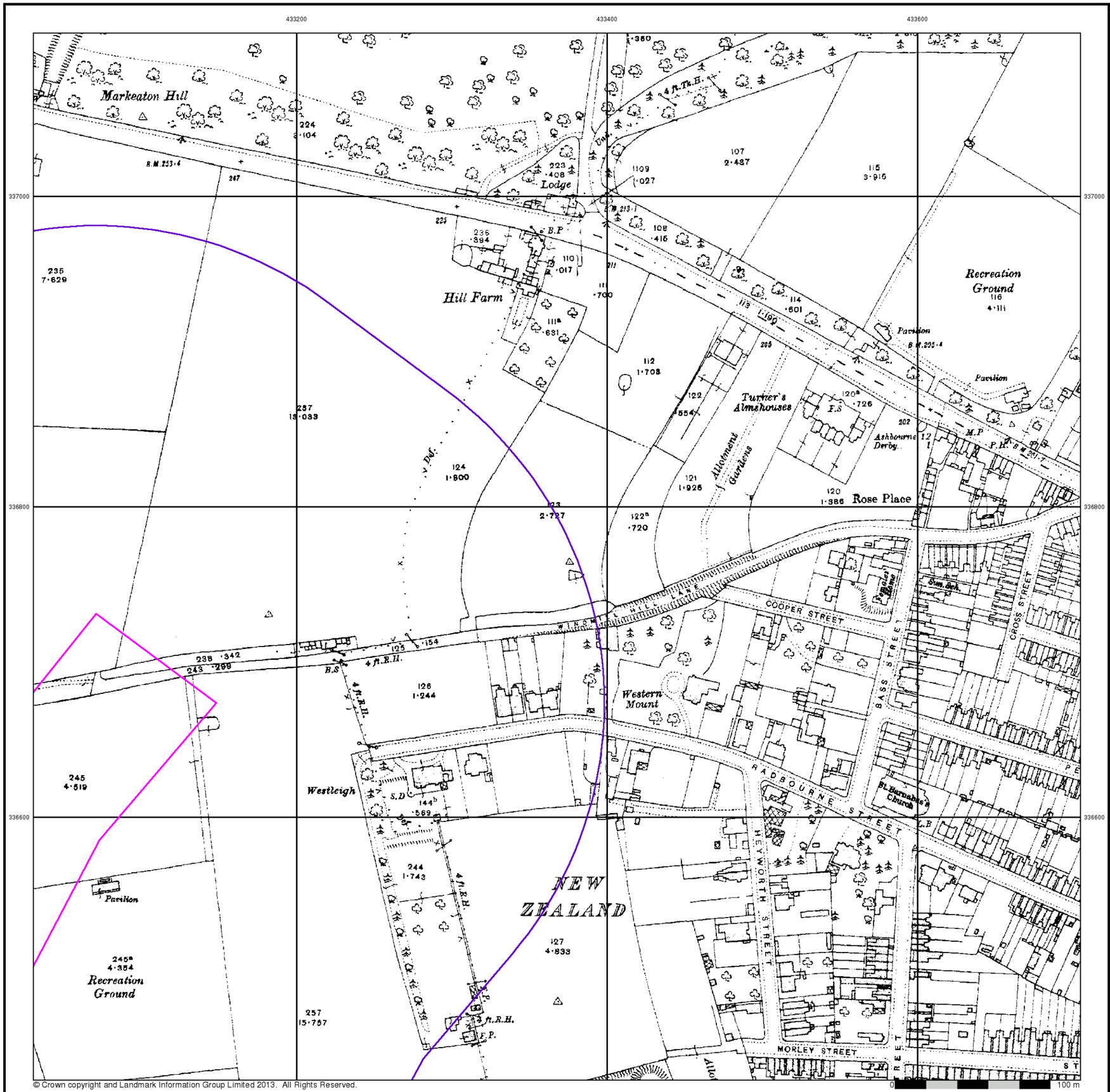
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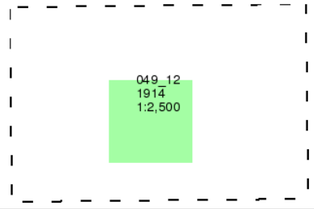
Derbyshire

Published 1914

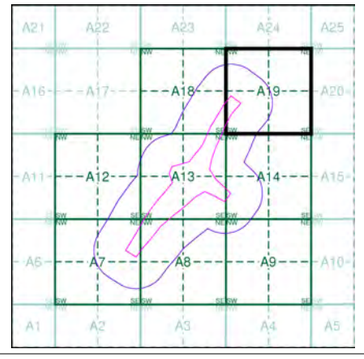
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A19



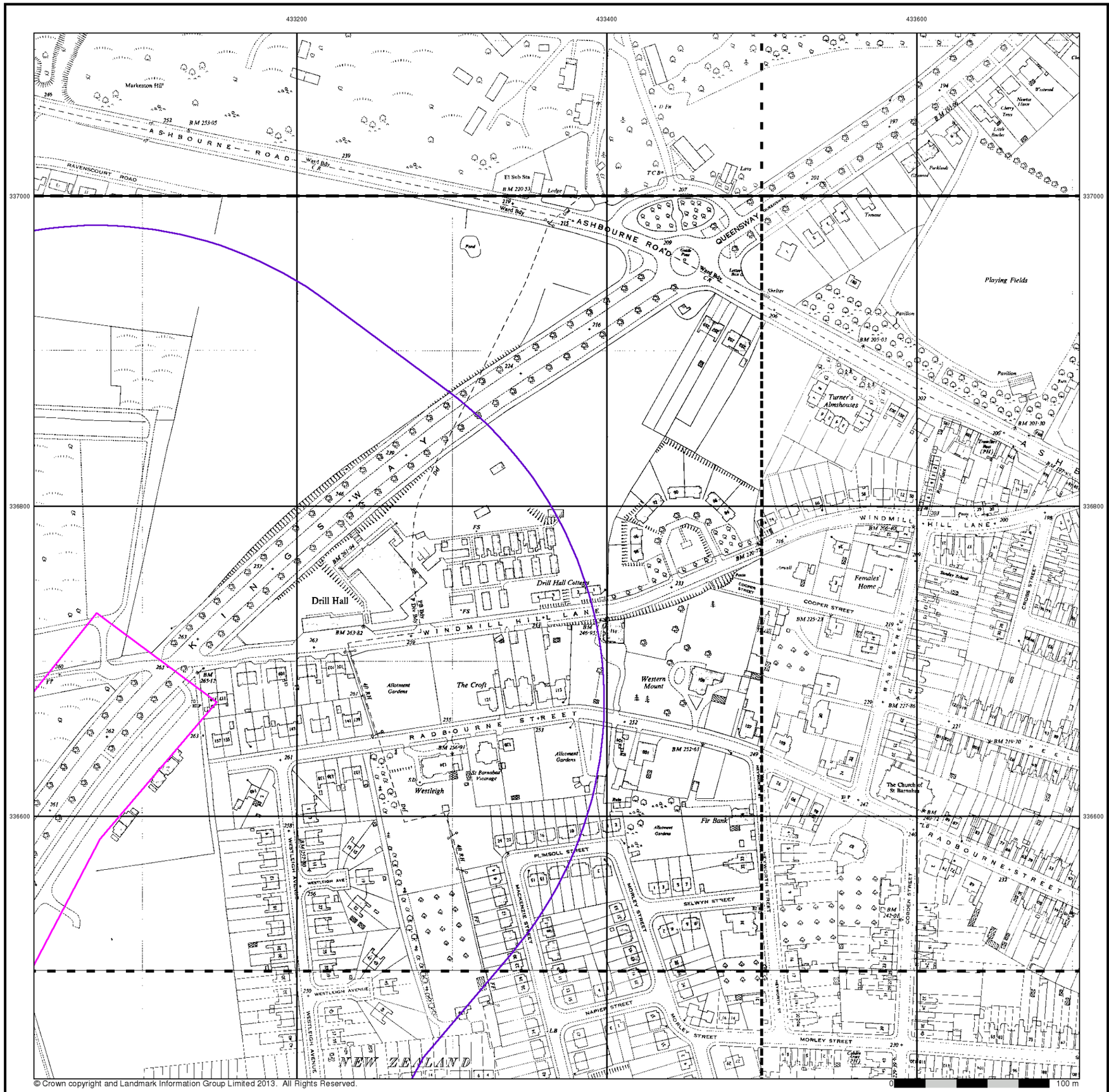
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National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Ordnance Survey Plan

Published 1948 - 1955

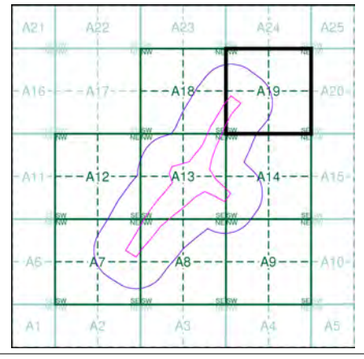
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3337SW	SK3337SE
1955 1:1,250	1948 1:1,250
SK3336NW	**SK3336NE**
1948 1:1,250	1948 1:1,250
SK3336SW	**SK3336SE**
1948 1:1,250	1948 1:1,250

Historical Map - Segment A19

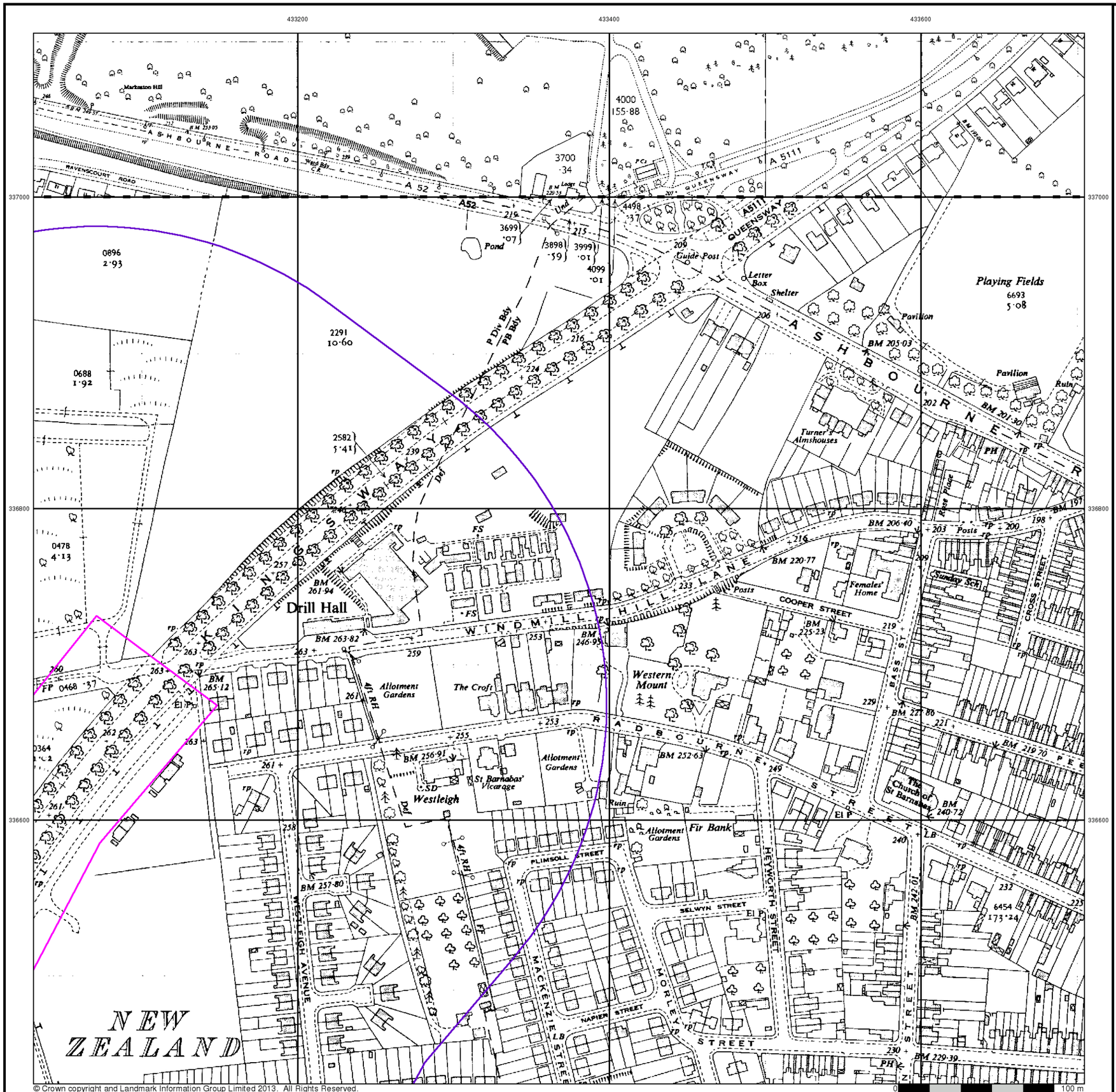


Order Details

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Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

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Ordnance Survey Plan

Published 1951 - 1969

Source map scale - 1:2,500

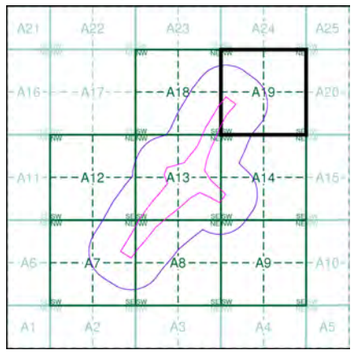
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3337
1969
1:2,500

SK3336
1951
1:2,500

Historical Map - Segment A19



Order Details

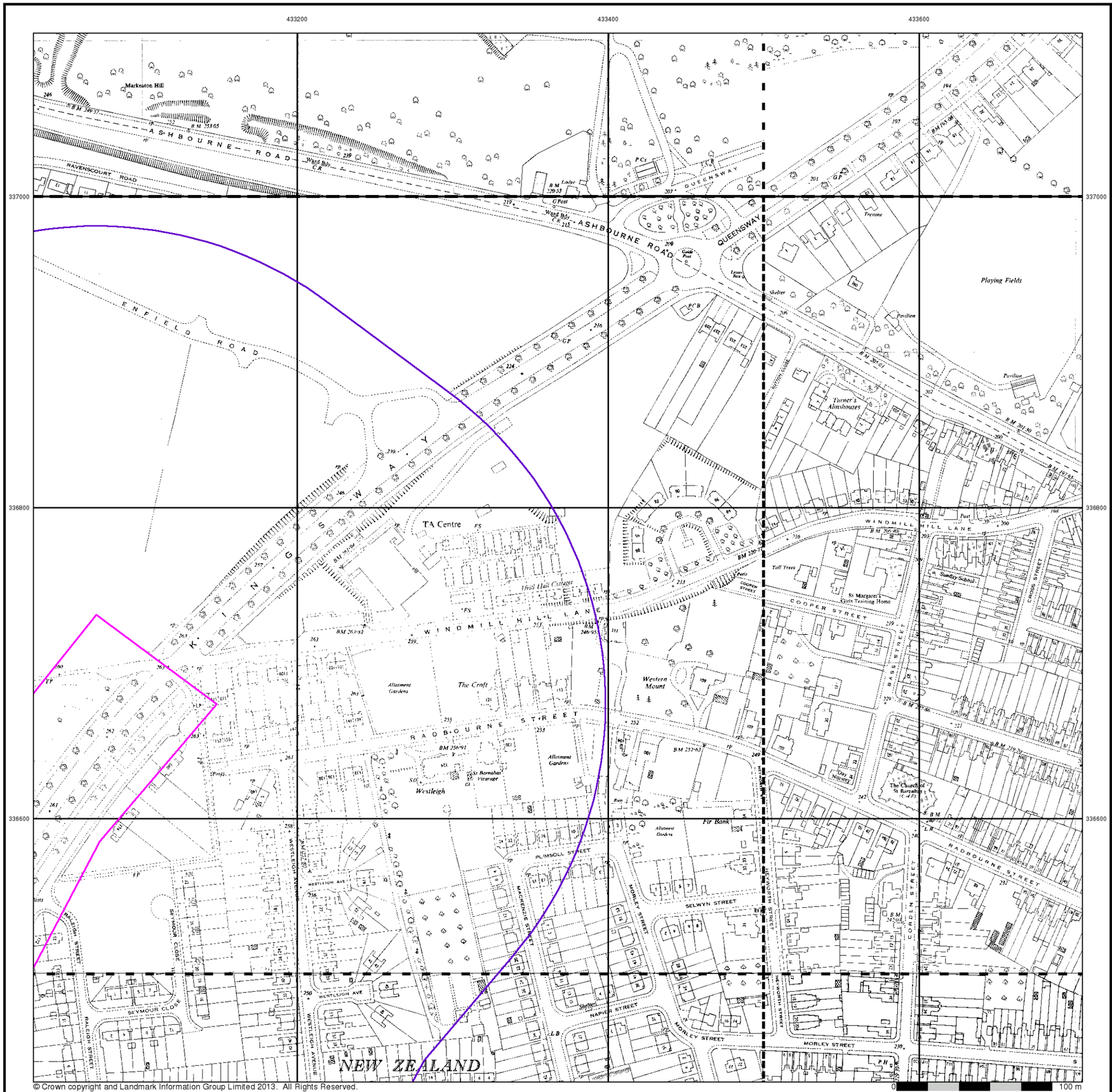
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Search Buffer (m):	250

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Ordnance Survey Plan

Published 1951 - 1966

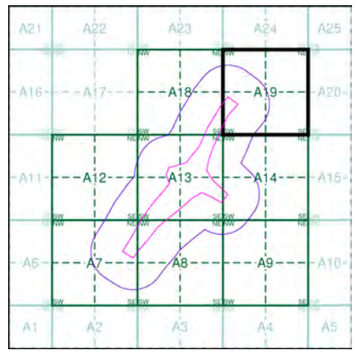
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3337SW 1965 1:1,250	SK3337SE 1951 1:1,250
SK3336NW 1951 1:1,250	SK3336NE 1966 1:1,250
SK3336SW 1953 1:1,250	SK3336SE 1963 1:1,250

Historical Map - Segment A19



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
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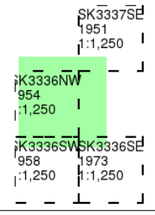
Ordnance Survey Plan

Published 1951 - 1973

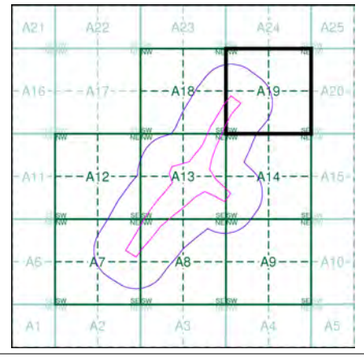
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A19



Order Details

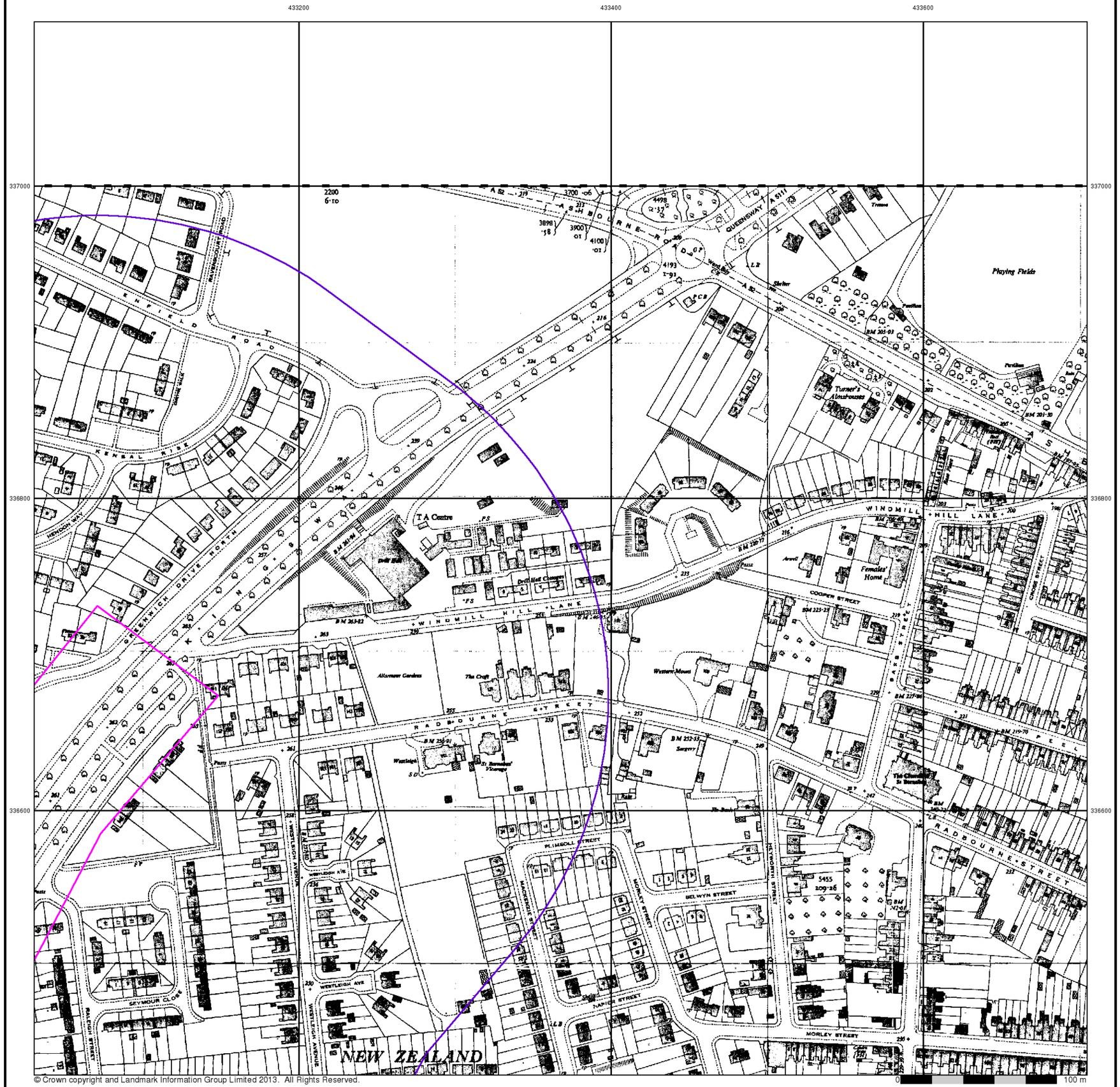
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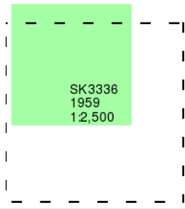
Ordnance Survey Plan

Published 1959

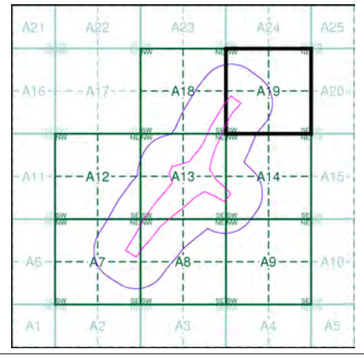
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A19



Order Details

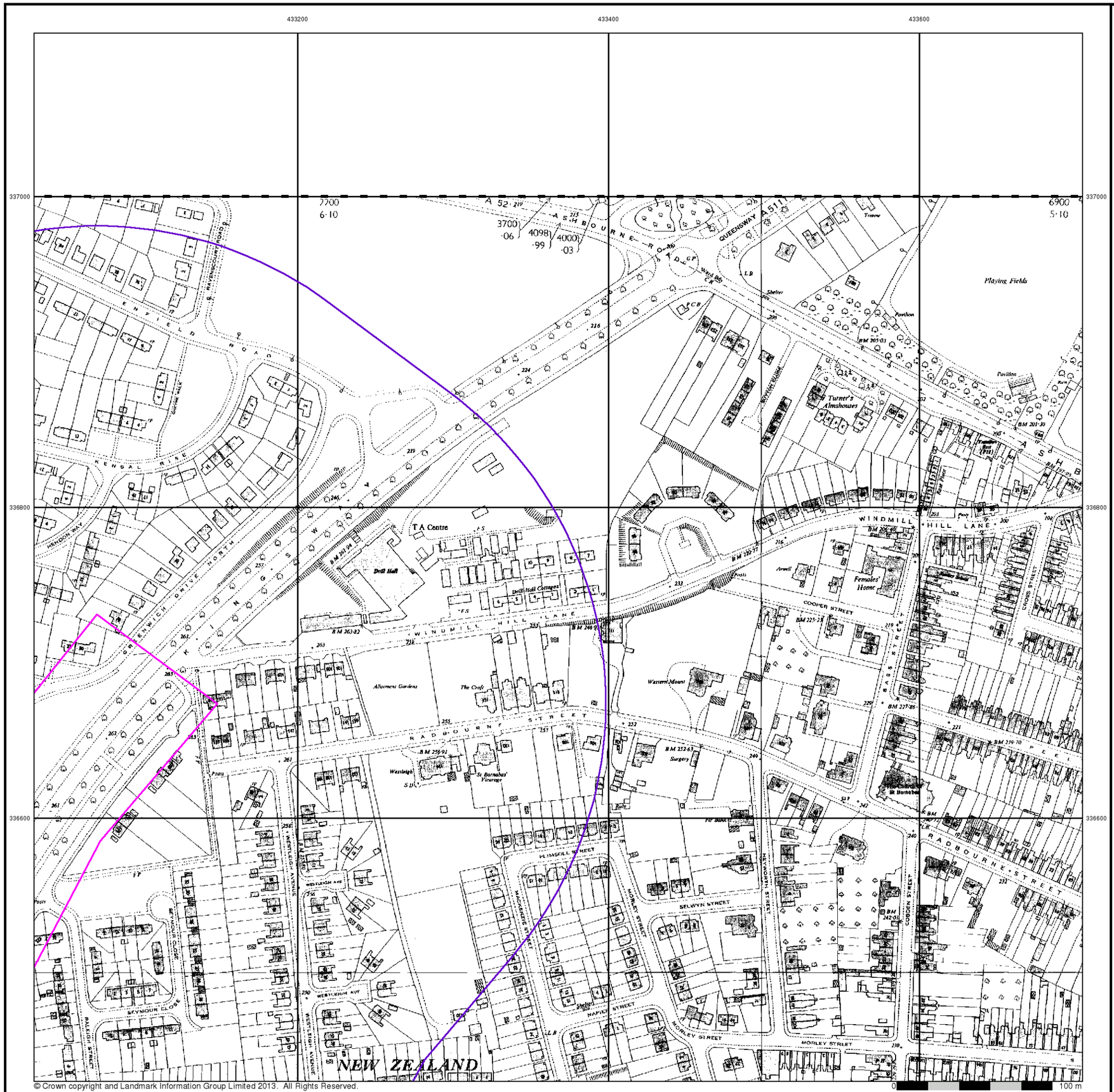
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National Grid Reference:	432740, 336060
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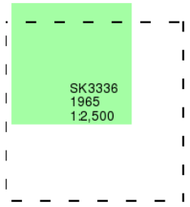
Ordnance Survey Plan

Published 1965

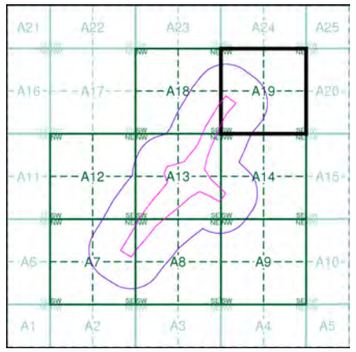
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A19



Order Details

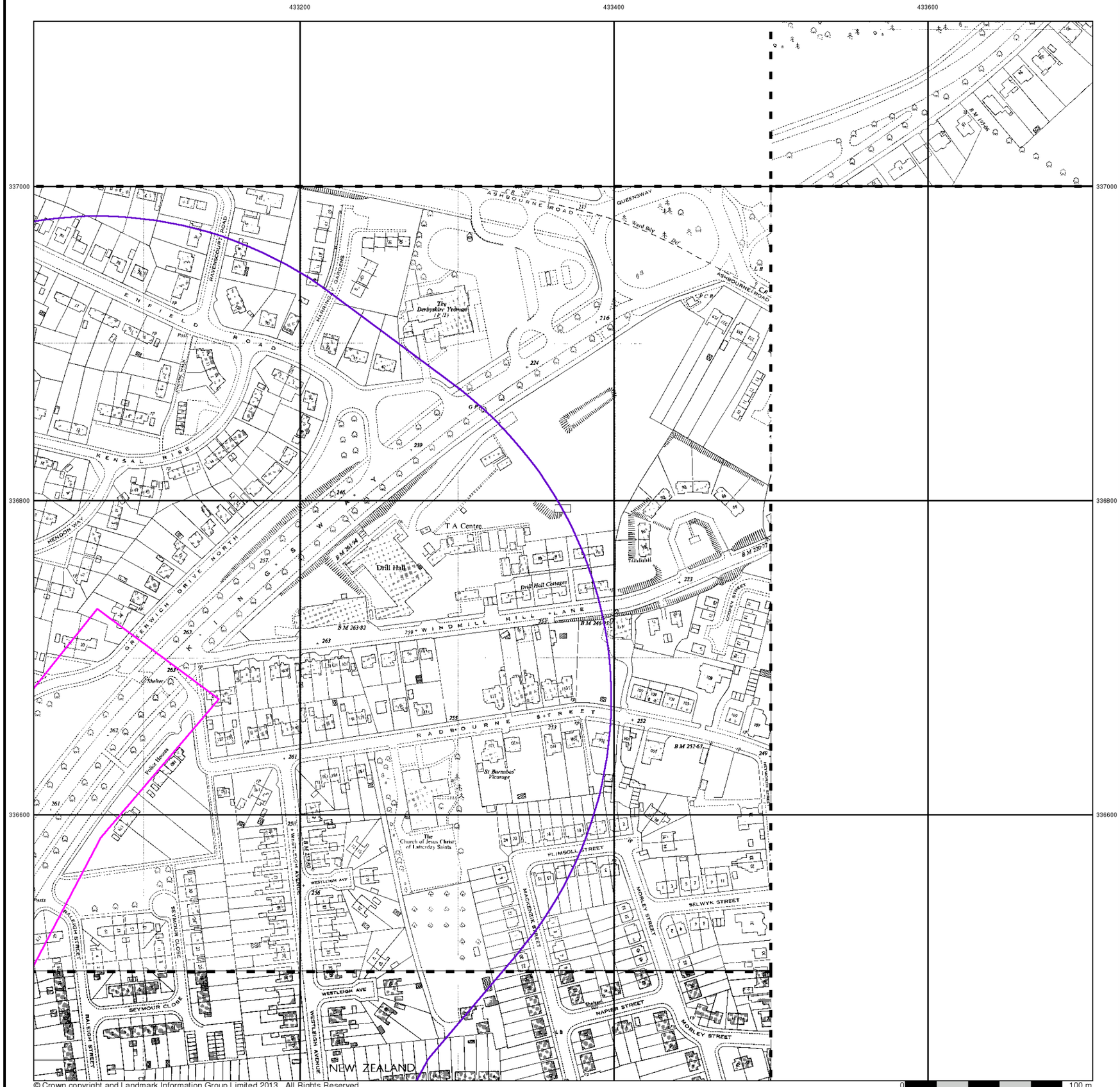
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National Grid Reference:	432740, 336060
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Ordnance Survey Plan

Published 1965 - 1972

Source map scale - 1:1,250

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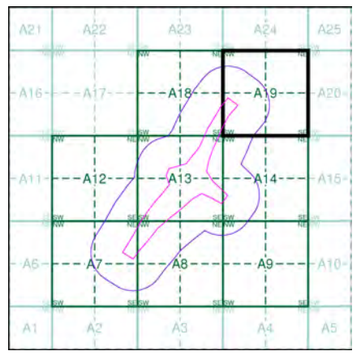
Map Name(s) and Date(s)

SK3337SE
1965
1:1,250

SK3336NW
1966
1:1,250

SK3336SW
1972
1:1,250

Historical Map - Segment A19



Order Details

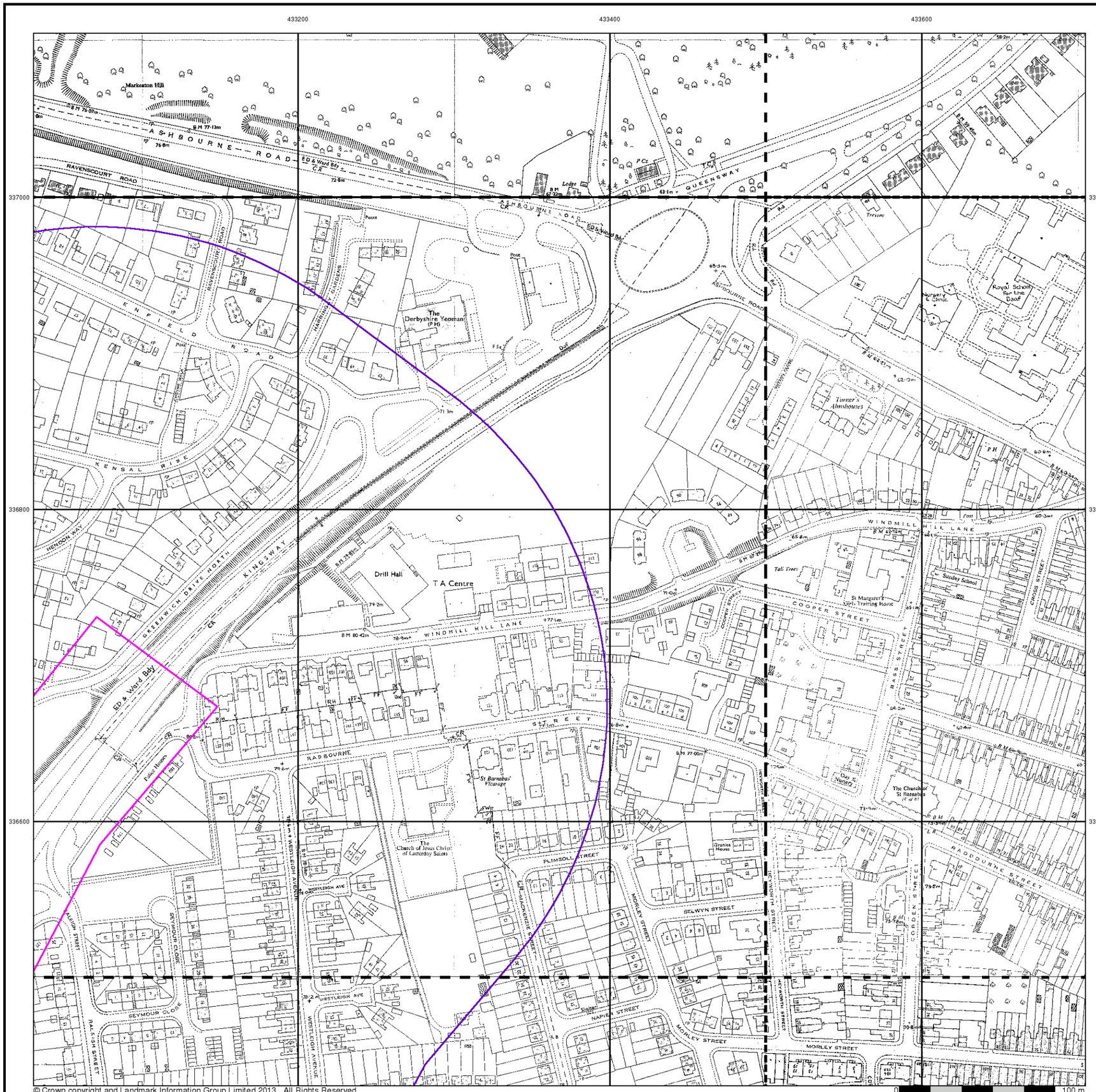
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Search Buffer (m):	250

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Additional SIMs

Published 1965 - 1990

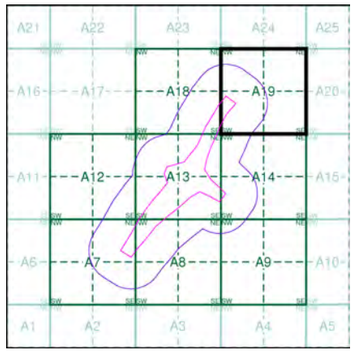
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3337SW 965 1:1,250	SK3337SE 965 1:1,250
SK3336NW 990 1:1,250	SK3336NE 985 1:1,250
SK3336SW 990 1:1,250	SK3336SE 980 1:1,250

Historical Map - Segment A19



Order Details

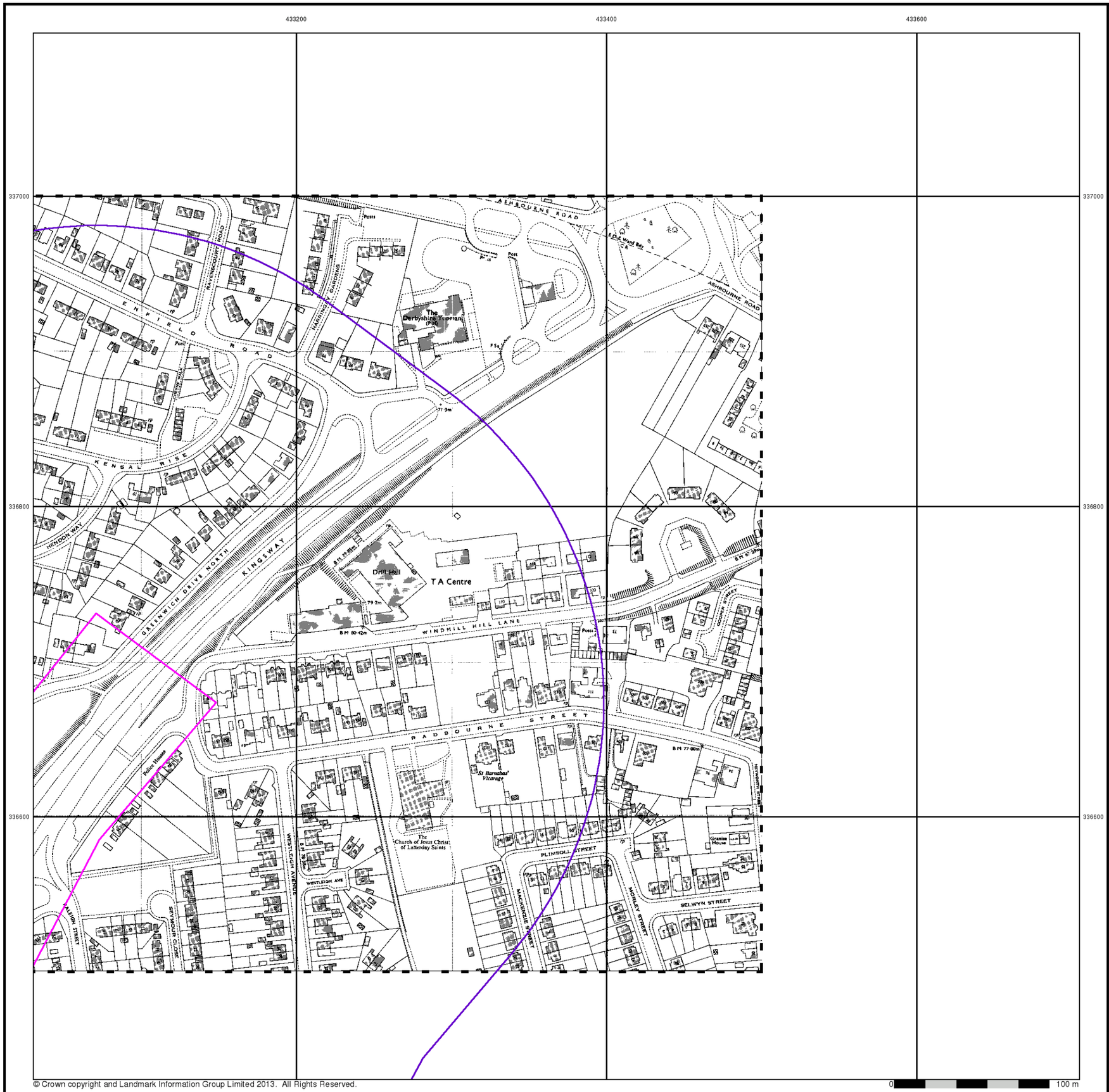
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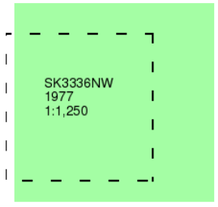
Ordnance Survey Plan

Published 1977

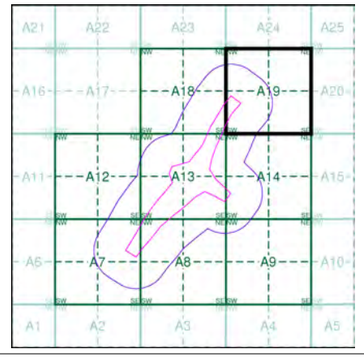
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A19



Order Details

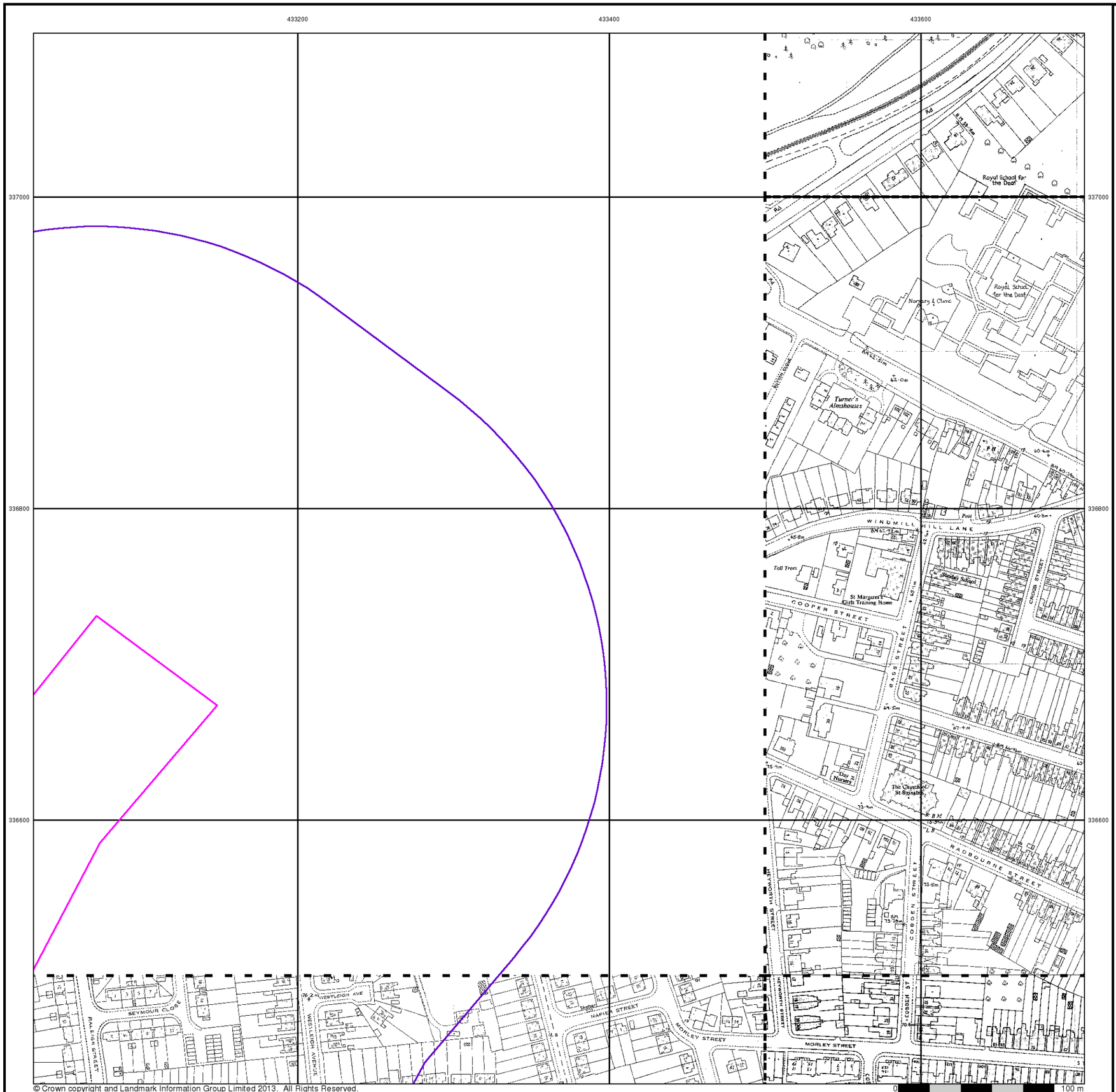
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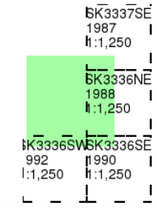
Additional SIMs

Published 1987 - 1992

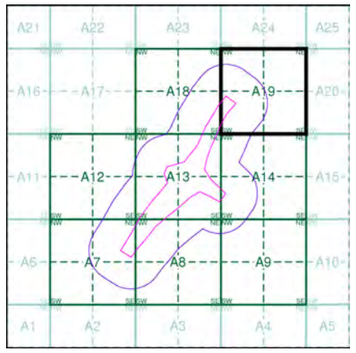
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A19



Order Details

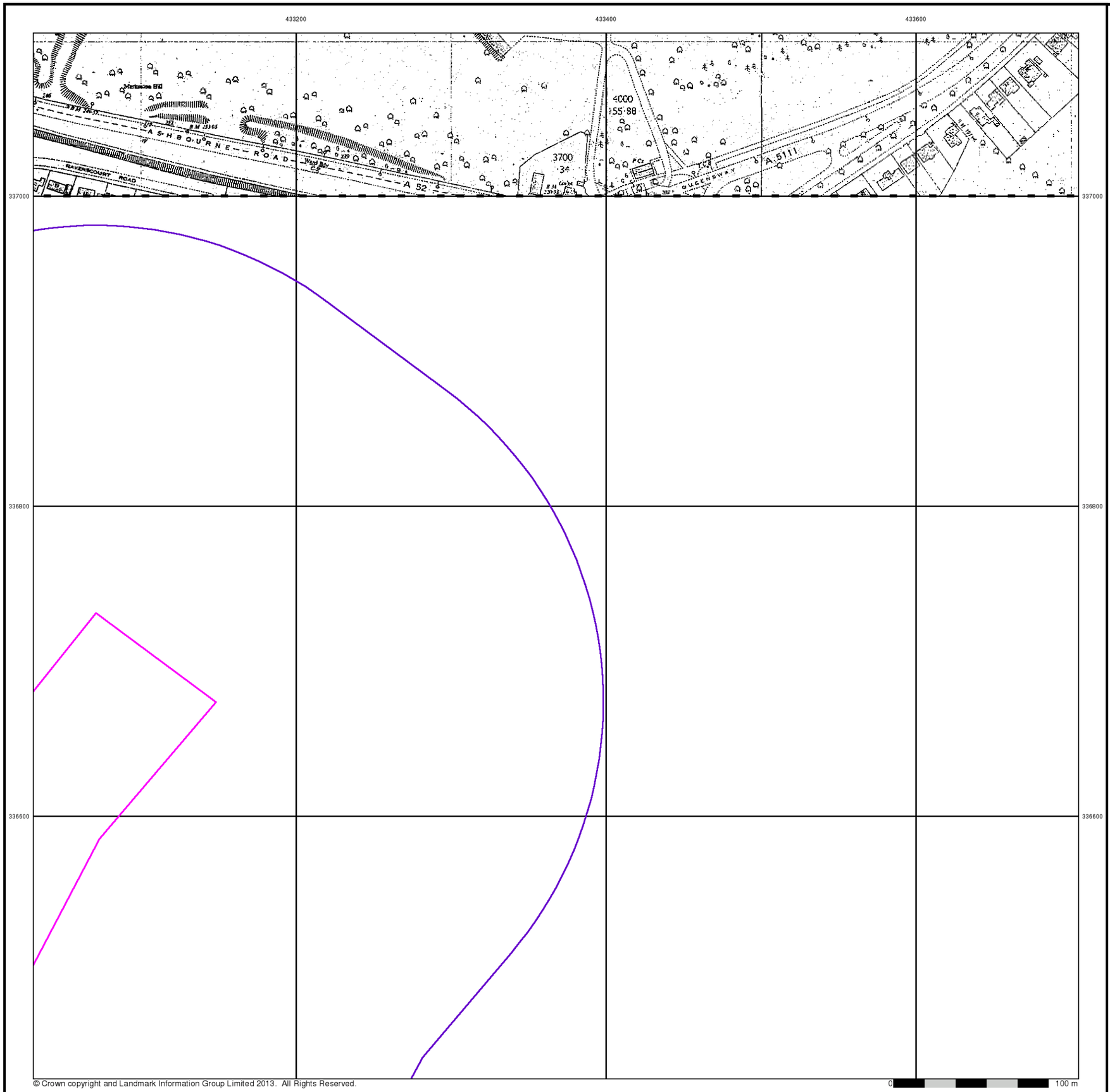
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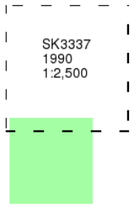
Additional SIMs

Published 1990

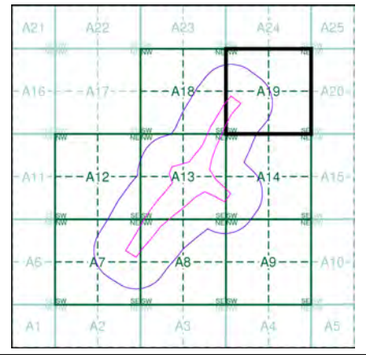
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A19



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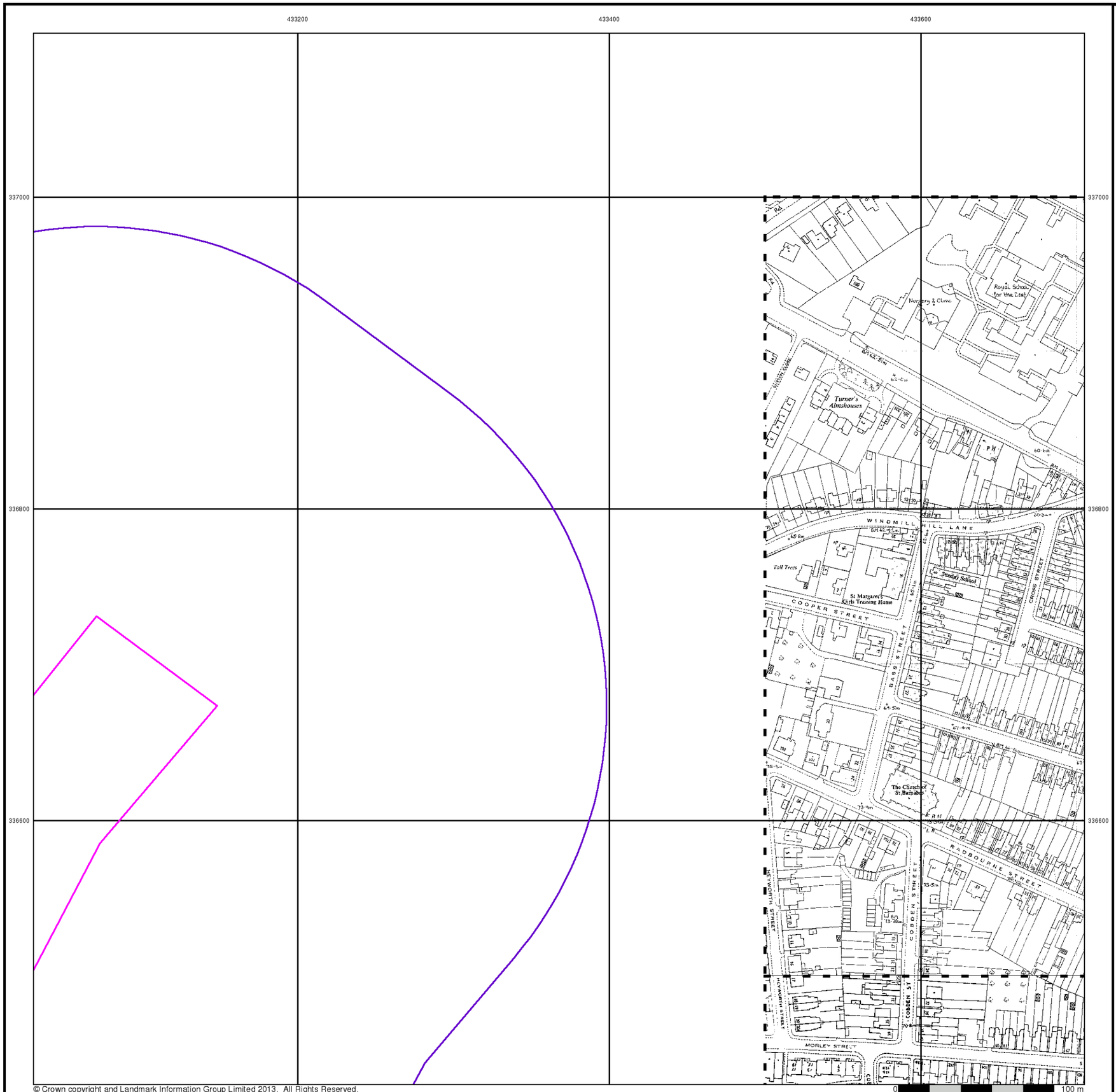
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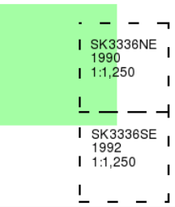
Additional SIMs

Published 1990 - 1992

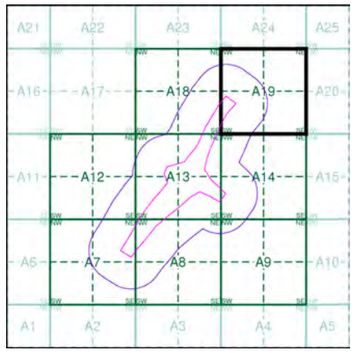
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A19



Order Details

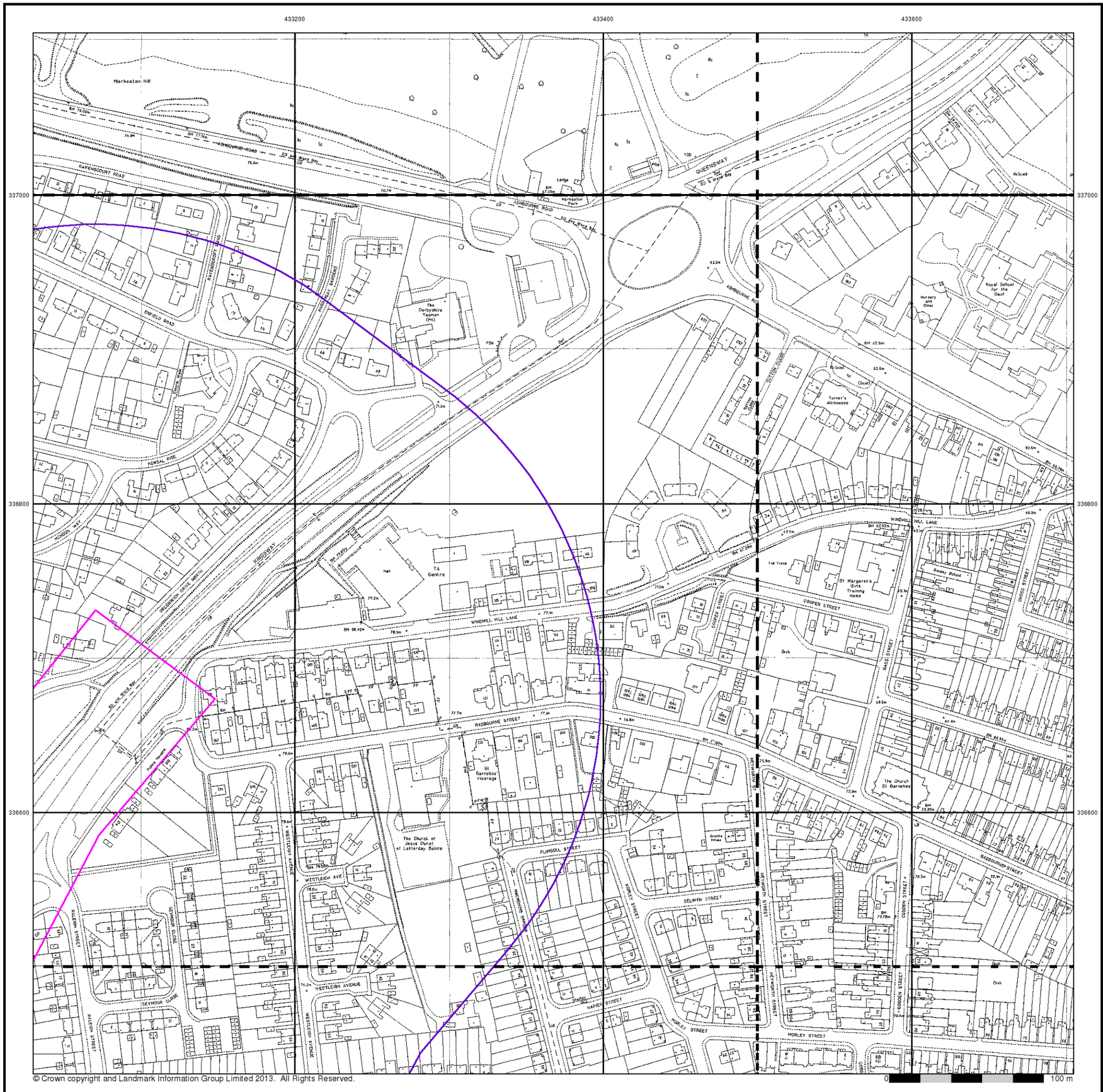
Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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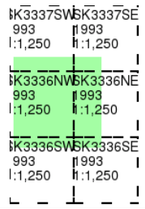
Large-Scale National Grid Data

Published 1993

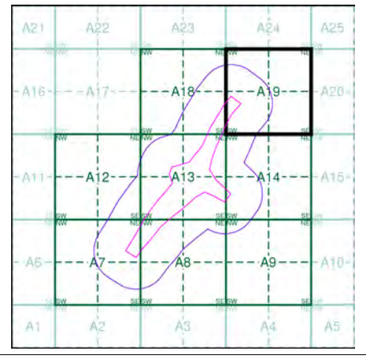
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A19



Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
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Large-Scale National Grid Data

Published 1994

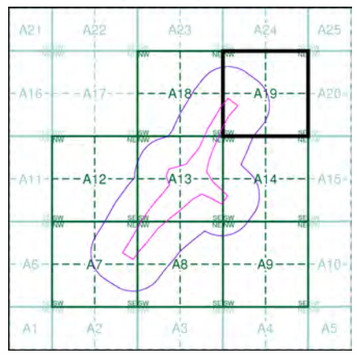
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3336NW
1994
1:1,250

Historical Map - Segment A19



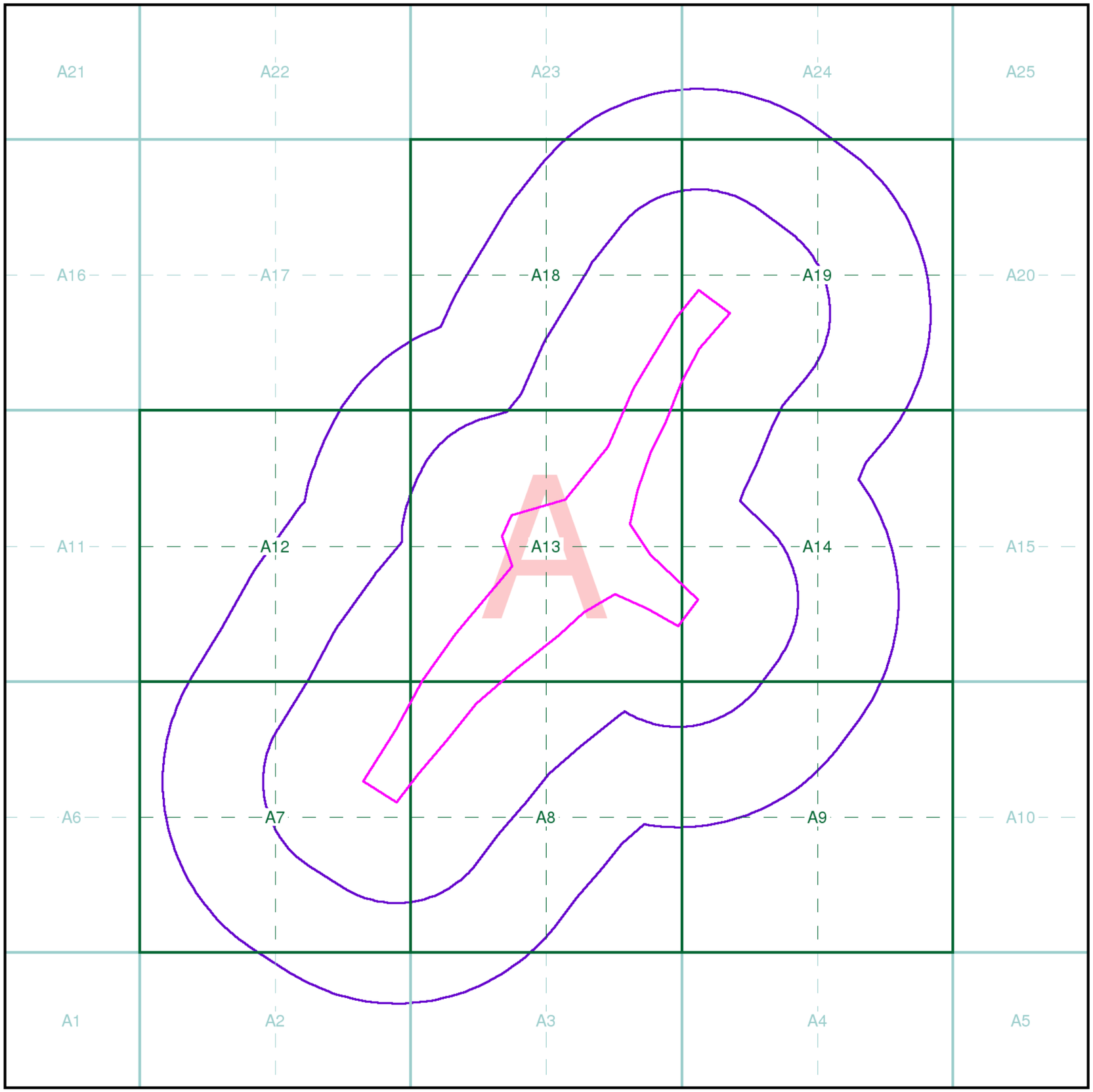
Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432740, 336060
Slice:	A
Site Area (Ha):	24.66
Search Buffer (m):	250

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Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

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Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

Prepared For

URS
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Basil Close
Chesterfield
Derbyshire
S41 7SL

Client Details

Ms J Dawson, URS Infrastructure & Environment UK Ltd, Royal Court, Basil Close, Chesterfield, Derbyshire, S41 7SL

Order Details

Order Number:	60387304_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	432720, 336040
Site Area (Ha):	24.66
Search Buffer (m):	500

Site Details

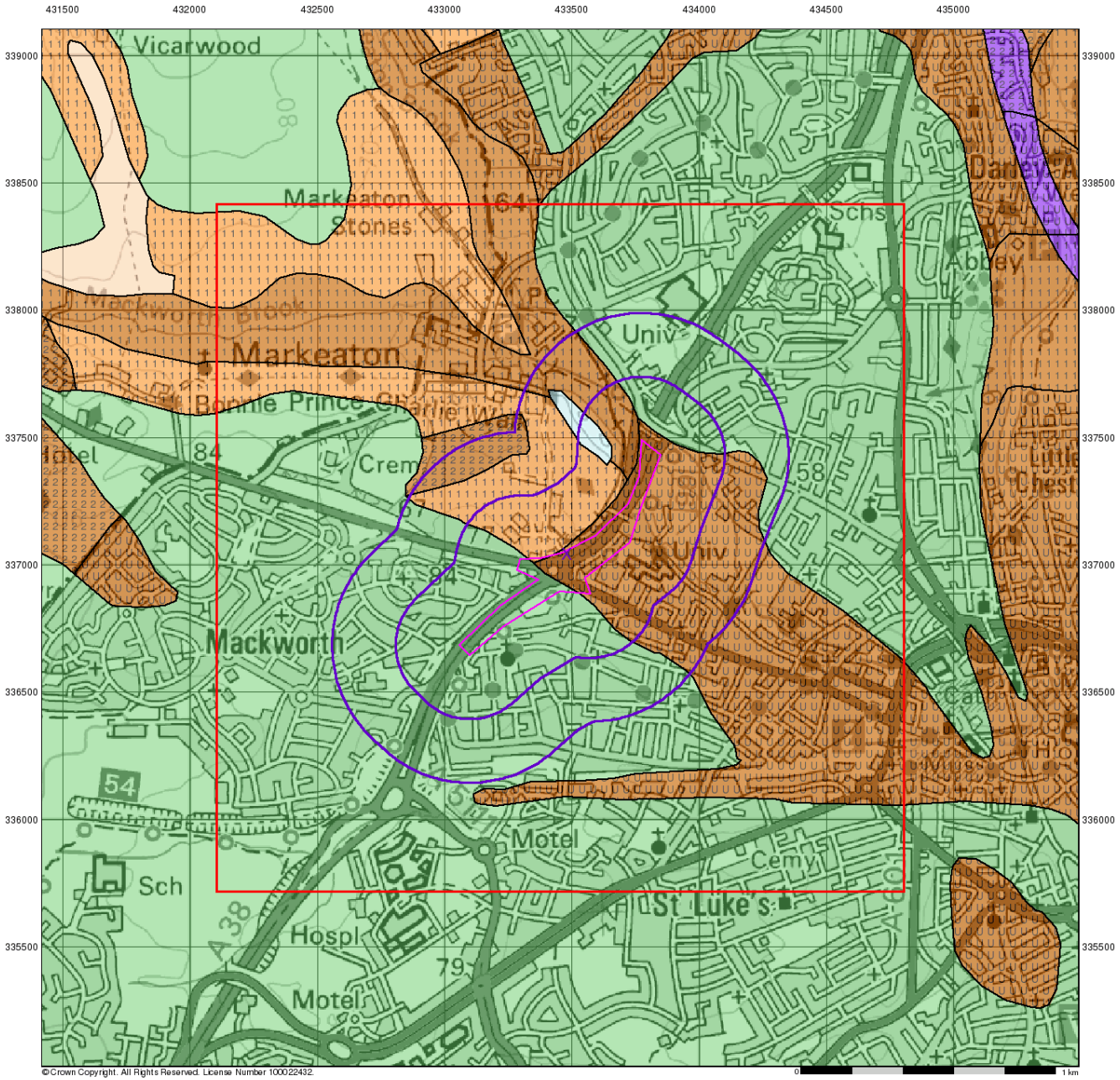
Site at, Derby, City of Derby

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Appendix D-2

Envirocheck Report – Markeaton



Groundwater Vulnerability

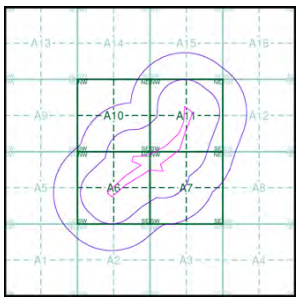
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



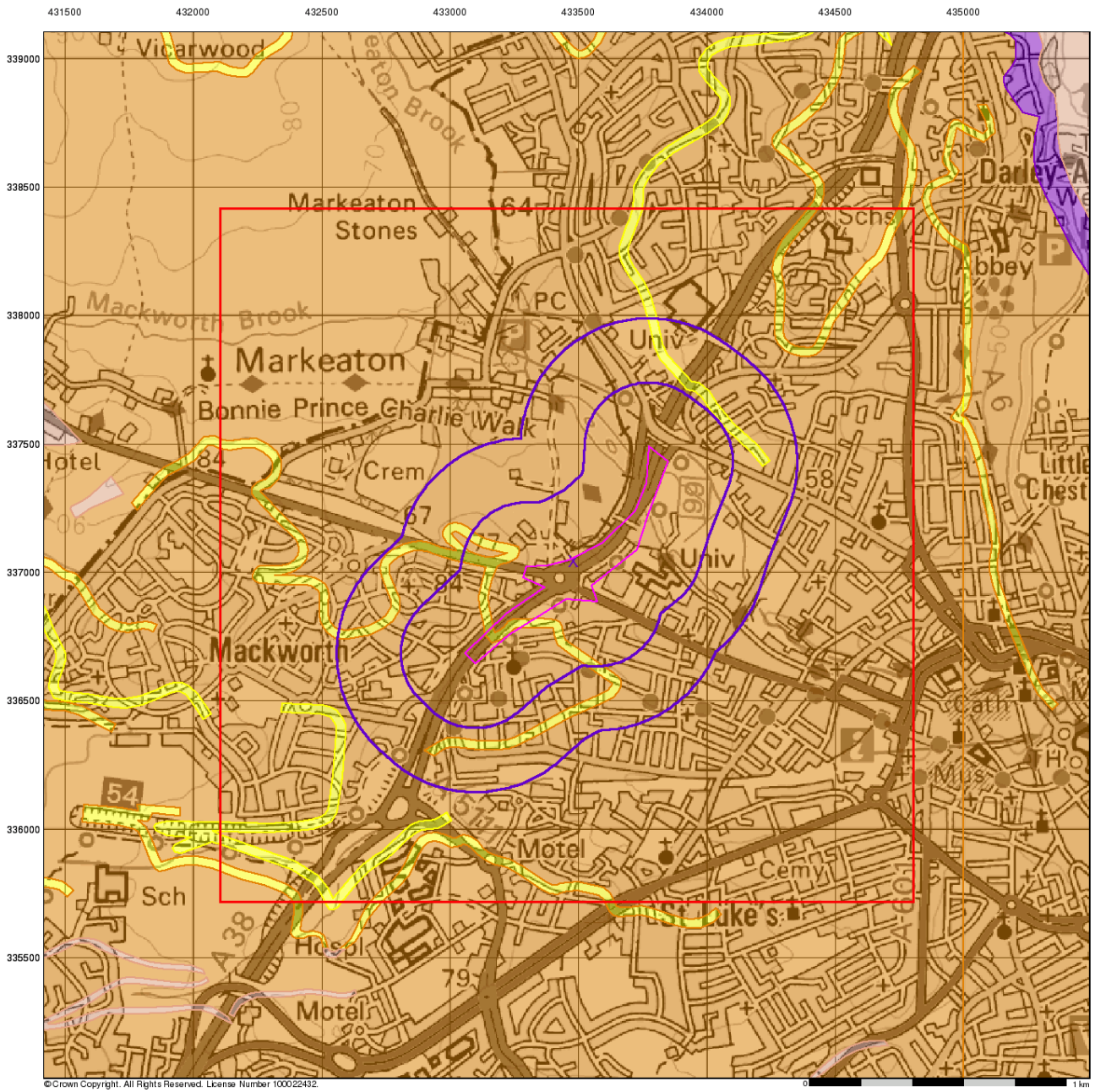
Order Details

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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	500

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Bedrock Aquifer Designation

General

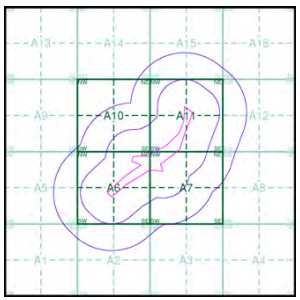
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A

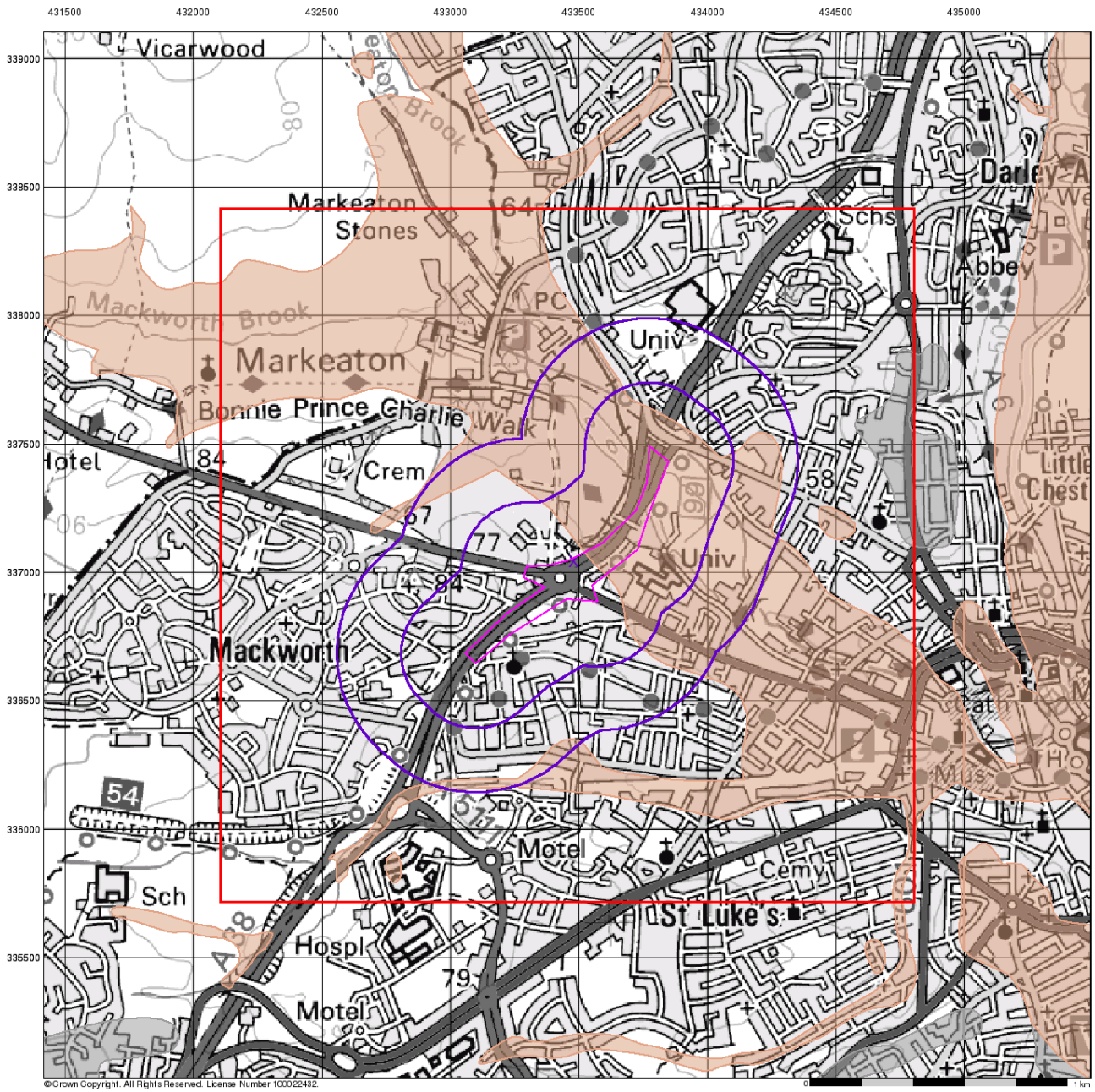


Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby



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Superficial Aquifer Designation

General

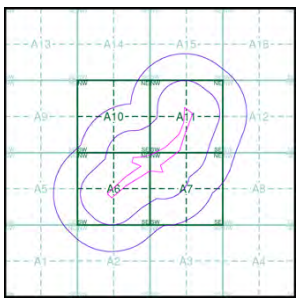
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



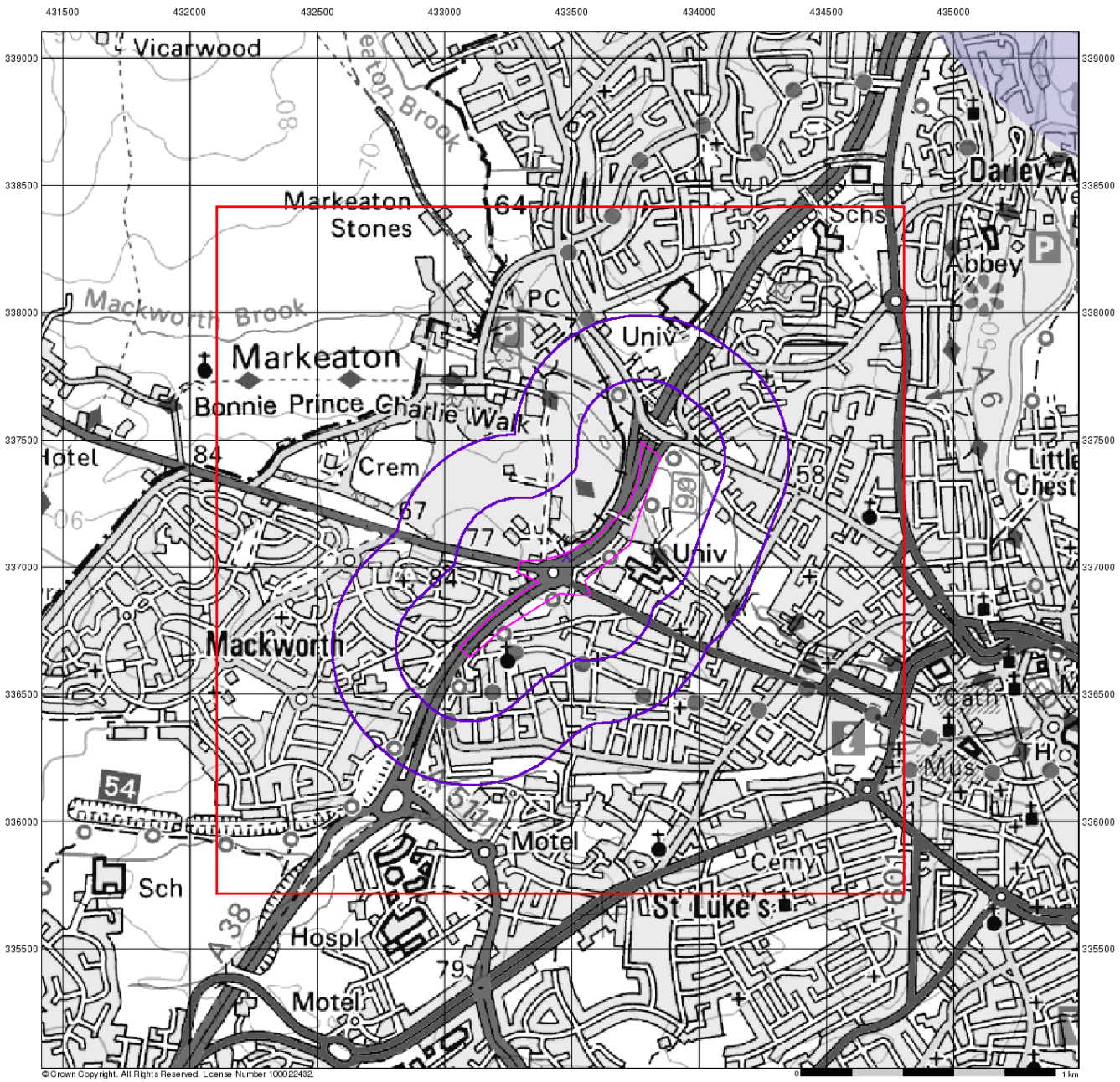
Order Details

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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	500

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Source Protection Zones

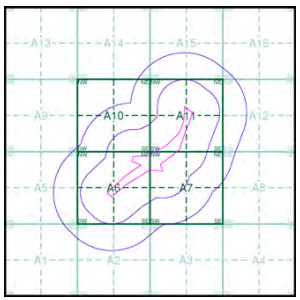
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



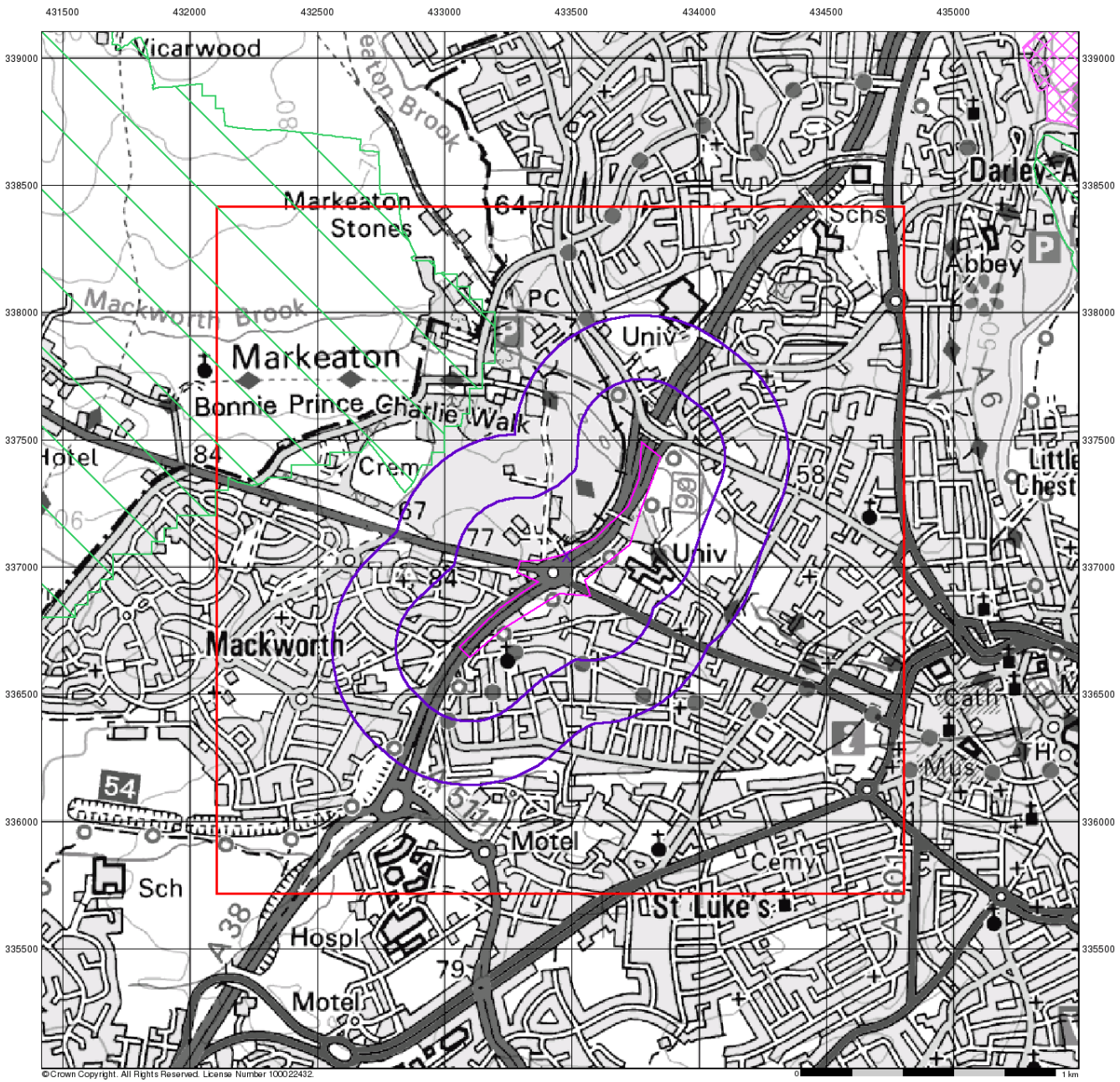
Order Details

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National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	500

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Sensitive Land Uses

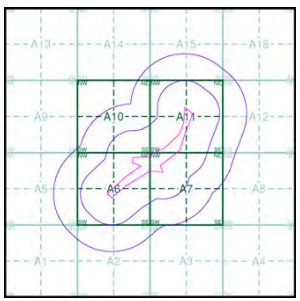
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	500

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
60387091_1_1

Customer Reference:
47071637.208APS

National Grid Reference:
433480, 337040

Slice:
A

Site Area (Ha):
10.53

Search Buffer (m):
500

Site Details:

Site at
Derby
City of Derby

Client Details:

Ms J Dawson
URS Infrastructure & Environment UK Ltd
Royal Court
Basil Close
Chesterfield
Derbyshire
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Prepared For:

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Basil Close
Chesterfield
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Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	13
Hazardous Substances	-
Geological	15
Industrial Land Use	28
Sensitive Land Use	-
Data Currency	34
Data Suppliers	39
Useful Contacts	40

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v49.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Agency & Hydrological				
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 1	1		4
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls	pg 2		2	2
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 2	Yes		
Pollution Incidents to Controlled Waters	pg 2	2	3	5
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality	pg 4	1		
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Substantiated Pollution Incident Register	pg 4			1
Water Abstractions				
Water Industry Act Referrals				
Groundwater Vulnerability	pg 4	Yes	n/a	n/a
Bedrock Aquifer Designations	pg 5	Yes	n/a	n/a
Superficial Aquifer Designations	pg 5	Yes	n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences	pg 5	Yes	Yes	n/a
Flooding from Rivers or Sea without Defences	pg 8	Yes	Yes	n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
Detailed River Network Lines	pg 9	Yes	Yes	Yes
Detailed River Network Offline Drainage				

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Waste				
BGS Recorded Landfill Sites	pg 13			1
Historical Landfill Sites	pg 13	1	1	3
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Recorded Landfill Sites	pg 14		1	
Registered Landfill Sites	pg 14		2	
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				
Hazardous Substances				
Control of Major Accident Hazards Sites (COMAH)				
Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents				
Planning Hazardous Substance Enforcements				
Geological				
BGS 1:625,000 Solid Geology	pg 15	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 15	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 24		1	
BGS Urban Soil Chemistry	pg 24	Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 26	Yes		
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain				n/a
Potential for Collapsible Ground Stability Hazards	pg 26	Yes	Yes	n/a
Potential for Compressible Ground Stability Hazards	pg 26	Yes		n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 27	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 27	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 27	Yes	Yes	n/a
Radon Potential - Radon Affected Areas			n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Industrial Land Use				
Contemporary Trade Directory Entries	pg 28	1	7	51
Fuel Station Entries	pg 33		1	2
Sensitive Land Use				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones				
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Not Given Location: Markeaton Estate, Outlet 59, DERBY Authority: Environment Agency, Midlands Region Catchment Area: Not Given Reference: T/47/03754/O/2 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 21st May 1974 Revocation Date: Not Supplied Discharge Type: Sewerage And Other Matter Discharge - Sewerage And Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Markeaton Brook **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A11SW (NE)	0	3	433760 337300
2	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewerage Network - Sewers - Water Company Location: Kedleston Road Storm Overflow, Kedleston Road, Derby Authority: Environment Agency, Midlands Region Catchment Area: Markeaton Brook Catchment Reference: T/46/21202/O Permit Version: 1 Effective Date: 21st February 1992 Issued Date: 21st February 1992 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Northern Flood Culvert **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A11NW (N)	257	3	433720 337740
3	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewerage Network - Sewers - Water Company Location: Kedleston Rd Derby Kedleston Road, Nr Maxwell Avenue, Derby, Derbyshire Authority: Environment Agency, Midlands Region Catchment Area: Markeaton Brook Catchment Reference: T/47/21613/O Permit Version: 1 Effective Date: 22nd June 1992 Issued Date: 22nd June 1992 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Northern Flood Culvert **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A15SW (N)	310	3	433670 337780
4	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewerage Network - Sewers - Water Company Location: Leylands Storm Overflow, Leylands, Broadway, Derby Authority: Environment Agency, Midlands Region Catchment Area: Markeaton Brook Catchment Reference: T/46/21203/O Permit Version: 1 Effective Date: 21st February 1992 Issued Date: 21st February 1992 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Northern Flood Culvert **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A15SE (NE)	394	3	434080 337750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewerage Network - Sewers - Water Company Location: Cheviot Street - Storm O/F & Sws, Cheviot Street, Derby, De22 3ey Authority: Environment Agency, Midlands Region Catchment Area: Markeaton Brook Catchment Reference: T/47/20377/O Permit Version: 1 Effective Date: 6th April 1990 Issued Date: 6th April 1990 Revocation Date: 3rd June 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Bramble Brook **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A2NE (S)	483	3	433190 336170
6	**Local Authority Pollution Prevention and Controls** Name: Mackworth Service Station Location: Mackworth Island, DERBY, Derbyshire, DE22 4AA Authority: Derby City Unitary Council, Environmental Health Department Permit Reference: PPC/PFS12 Dated: 30th July 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A6NE (SW)	2	4	433360 336943
6	**Local Authority Pollution Prevention and Controls** Name: Sainsbury'S Kingsway Location: Kingsway Retail Park, Kingsway, DERBY, Derbyshire, DE22 3NF Authority: Derby City Unitary Council, Environmental Health Department Permit Reference: PPC/PFS28 Dated: 26th June 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A6NE (SW)	3	4	433362 336940
7	**Local Authority Pollution Prevention and Controls** Name: Accident Repair Centre Location: Chandos Pole Street, DERBY, DE22 3AZ Authority: Derby City Unitary Council, Environmental Health Department Permit Reference: Vr4 Dated: 1st October 1993 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles **Status: Authorised** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	263	4	433881 336873
8	**Local Authority Pollution Prevention and Controls** Name: Shell (Friargate) Location: Ashbourne Road, DERBY, Derbyshire, DE22 3AF Authority: Derby City Unitary Council, Environmental Health Department Permit Reference: 37 Dated: 16th October 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A7NE (SE)	446	4	433995 336729
	Nearest Surface Water Feature	A11SW (NE)	0	-	433756 337318
9	**Pollution Incidents to Controlled Waters** Property Type: Road (Road Traffic Accident) Location: Ashbourne Road Island, DERBY Authority: Environment Agency, Midlands Region Pollutant: Chemicals - Solvents Note: Lorry Shed Load Of Chemical Drums Incident Date: 2nd March 1999 Incident Reference: 2805733 Catchment Area: Trent Catchment : Markeaton Brook Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A6NE (W)	0	3	433300 337000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Pollution Incidents to Controlled Waters** Property Type: Road (Road Traffic Accident) Location: A38 Markeaton Roundabout, DERBY Authority: Environment Agency, Midlands Region Pollutant: Chemicals - Acid Note: 4 Drums Chems From Lorry-Phosphorus Acid To Drns; Public Health Risk Incident Date: 30th November 1995 Incident Reference: 1800598 Catchment Area: Trent Catchment : Derwent To Confluence With Markeaton Brook Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6NE (SW)	0	3	433400 337000
11	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Other Location: Markeaton Park, DERBY, Derbyshire, DE22 Authority: Environment Agency, Midlands Region Pollutant: Miscellaneous - Natural Note: Blockage Of Debris - Maybe Causing Dead Fish; Fish Killed; Incident Date: 26th July 1999 Incident Reference: 2806142 Catchment Area: Trent Catchment : Markeaton Brook Receiving Water: Watercourse Cause of Incident: Weather Incident Severity: Category 3 - Minor Incident Positional Accuracy: Approximate location provided by supplier	A11SE (NE)	10	3	433850 337400
12	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Brook From, Markeaton Lake To Mill Dam Authority: Environment Agency, Midlands Region Pollutant: Oils - Unknown Note: Amenity Affected; Oil On Water Incident Date: 16th September 1996 Incident Reference: 2801312 Catchment Area: Trent Catchment : Markeaton Brook Receiving Water: Pond/Lake Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11SE (NE)	34	3	433800 337200
12	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Markeaton Park Authority: Environment Agency, Midlands Region Pollutant: Oils - Diesel (Including Agricultural) Note: Wildlife Affected; Mill Dam; Diesel Incident Date: 19th September 1996 Incident Reference: 2801334 Catchment Area: Trent Catchment : Markeaton Brook Receiving Water: Watercourse Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11SE (NE)	36	3	433800 337195
13	**Pollution Incidents to Controlled Waters** Property Type: Road (Road Traffic Accident) Location: A38 At Marketon Island Authority: Environment Agency, Midlands Region Pollutant: Oils - Diesel (Including Agricultural) Note: Brook Smells Of Diesel Incident Date: 8th March 1999 Incident Reference: 2805785 Catchment Area: Trent Catchment : Lower Derwent Receiving Water: Watercourse Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15SE (NE)	313	3	433800 337800
14	**Pollution Incidents to Controlled Waters** Property Type: Fire Water Location: Surrey Street, DERBY Authority: Environment Agency, Midlands Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Amenity Affected; 8 Appliance At Empty Warehouse Fire Incident Date: 30th November 1996 Incident Reference: 2801651 Catchment Area: Trent Catchment : Derwent To Confluence With Bottle Brook Receiving Water: Watercourse Cause of Incident: Fire Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SE)	354	3	433900 336750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Watson Street Authority: Environment Agency, Midlands Region Pollutant: Oils - Unknown Note: Markeaton Brook; Oil Smell Iridescence; No Adverse Effects Incident Date: 19th November 1997 Incident Reference: 2803654 Catchment Area: Trent Catchment : Markeaton Brook Receiving Water: Watercourse Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (E)	362	3	434150 337200
16	**Pollution Incidents to Controlled Waters** Property Type: Mining/Extraction: Other Location: Kingsway Industrial Estate, DERBY Authority: Environment Agency, Midlands Region Pollutant: Chemicals - Solvents Note: Bramble Brook; Suspected Solvents To Ground - Brook; Other Adverse Effects Incident Date: 16th August 1995 Incident Reference: 1800085 Catchment Area: Trent Catchment : Lower Derwent Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A2NW (SW)	444	3	433100 336200
17	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Surface Water Outfall Location: By Allotments, Markeaton Street, DERBY Authority: Environment Agency, Midlands Region Pollutant: Crude Sewage Note: Public Water Affected; Raw Sewage Incident Date: 21st May 1998 Incident Reference: 2804521 Catchment Area: Trent Catchment : Markeaton Brook Receiving Water: Watercourse Cause of Incident: Blocked Sewer Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (E)	484	3	434150 336850
	River Quality Name: Markeaton Bk GQA Grade: River Quality A Reach: Cutler Bk Kedleston To Ford St Derby Estimated Distance (km): 6.5 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A11SW (NE)	0	3	433650 337147
18	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, East Area Incident Date: 22nd May 2013 Incident Reference: 1115263 Water Impact: Category 3 - Minor Incident Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage Pollutant: Sewage Materials: Sludge	A15SE (NE)	447	3	434107 337795
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 23 Leicestershire Scale: 1:100,000	A6NE (SW)	0	3	433425 336949
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 23 Leicestershire Scale: 1:100,000	A7NW (N)	0	3	433480 337043
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 23 Leicestershire Scale: 1:100,000	A7NW (NW)	0	3	433468 337062
	Drift Deposits None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A7NW (N)	0	2	433480 337043
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A10SE (W)	0	2	433271 337077
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A11SW (NE)	0	2	433522 337075
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A11SW (NE)	0	3	433680 337258
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	1	3	433767 337207
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	2	3	433768 337203
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	5	3	433772 337187
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	5	3	433769 337191
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	10	3	433771 337187
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	13	3	433773 337185
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	16	3	433775 337181
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	19	3	433777 337177
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	22	3	433779 337173
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	26	3	433781 337169
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (E)	29	3	433783 337163
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (E)	32	3	433785 337159
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (E)	35	3	433787 337155

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (E)	38	3	433789 337151
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (E)	42	3	433791 337147
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	45	3	433793 337143
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	47	3	433795 337141
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	50	3	433797 337139
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	52	3	433799 337137
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	55	3	433801 337135
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	56	3	433802 337135
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A11NE (NE)	151	3	434018 337459
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A7NE (E)	157	3	433842 336974
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	173	3	433893 337035
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	176	3	433895 337033
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	176	3	433896 337033
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	178	3	433897 337032
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	179	3	433898 337031
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	180	3	433899 337030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	181	3	433900 337030
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	183	3	433901 337029
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	183	3	433902 337028
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	185	3	433903 337027
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	186	3	433904 337025
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	186	3	433904 337027
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	188	3	433906 337025
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	190	3	433907 337023
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (E)	195	3	433937 337101
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	211	3	433923 337007
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	214	3	433925 337003
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	218	3	433927 336999
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	219	3	433952 337065
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	221	3	433929 336997
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	224	3	433931 336993
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	227	3	433956 337057

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	228	3	433933 336989
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	231	3	433935 336985
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	231	3	433960 337053
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	234	3	433937 336983
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	237	3	433939 336979
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11NW (N)	239	3	433534 337499
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	241	3	433941 336975
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	244	3	433943 336973
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	247	3	433945 336969
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (E)	250	3	433947 336967
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	0	3	433721 337315
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	0	3	433771 337187
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11NE (NE)	123	3	433831 337597
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Detailed River Network Lines** River Type: Primary River River Name: Drain Hydrographic Area: D004 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11NW (NE)	0	3	433733 337418
20	**Detailed River Network Lines** River Type: Primary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11SE (E)	0	3	433809 337160
21	**Detailed River Network Lines** River Type: Lake/Reservoir River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11SW (NE)	0	3	433752 337313
22	**Detailed River Network Lines** River Type: Lake/Reservoir River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11SW (NE)	37	3	433706 337402
23	**Detailed River Network Lines** River Type: Lake/Reservoir River Name: Markeaton Lake Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11SW (NE)	64	3	433706 337402
24	**Detailed River Network Lines** River Type: Primary River River Name: Markeaton Brook Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Markeaton Brook Water Course Reference: 4125	A11SE (E)	118	3	434082 337276

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	**Detailed River Network Lines** River Type: Primary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11SE (E)	132	3	433868 337087
26	**Detailed River Network Lines** River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11SE (E)	134	3	433868 337086
27	**Detailed River Network Lines** River Type: Primary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11SE (E)	182	3	433974 337221
28	**Detailed River Network Lines** River Type: Primary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11SE (NE)	182	3	433986 337276
29	**Detailed River Network Lines** River Type: Primary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11SE (E)	199	3	433981 337214
30	**Detailed River Network Lines** River Type: Primary River River Name: Markeaton Brook Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Mackworth Brook Water Course Reference: 4123	A11NW (N)	216	3	433671 337678

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**Detailed River Network Lines** River Type: Primary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Markeaton Brook Water Course Reference: 4125	A11NW (N)	216	3	433671 337678
32	**Detailed River Network Lines** River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NE (E)	238	3	433951 337002
33	**Detailed River Network Lines** River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NE (E)	238	3	433951 337002
34	**Detailed River Network Lines** River Type: Primary River River Name: Markeaton Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Markeaton Brook Water Course Reference: 4125	A11SE (E)	272	3	434082 337276
35	**Detailed River Network Lines** River Type: Primary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A10NE (N)	394	3	433433 337685
36	**Detailed River Network Lines** River Type: Primary River River Name: Markeaton Brook Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: Markeaton Brook Water Course Reference: 4125	A8NW (E)	418	3	434135 336985

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	**Detailed River Network Lines** River Type: Primary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A10NE (N)	428	3	433395 337687
38	**Detailed River Network Lines** River Type: Primary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A10NE (N)	428	3	433395 337687
39	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Bramble Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A2NE (S)	486	3	433329 336186
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	**BGS Recorded Landfill Sites** Site Name: Rowditch Tip Location: Uttoxeter Rd, DERBY, Derbyshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Derived	A2NE (S)	493	2	433405 336142
41	**Historical Landfill Sites** Licence Holder: Tarmac National Construction Location: Queensway Junction, Derby Name: South East of Kedleston Road/Queensway Junction Operator Location: Site Offices, Church Lane, Darley Abbey, Derby Boundary Accuracy: As Supplied Provider Reference: EAHLD22935 First Input Date: 31st January 1982 Last Input Date: 30th April 1984 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1000/0132 BGS Ref: Not Supplied Other Ref: LD54, DER/1281/1558	A11SE (NE)	0	3	433810 337392
42	**Historical Landfill Sites** Licence Holder: Royal School for the Deaf Location: Ashbourne Road, Derbyshire Name: Royal School for the Deaf Operator Location: Ashbourne Road, Derby Boundary Accuracy: As Supplied Provider Reference: EAHLD22937 First Input Date: 31st December 1978 Last Input Date: 30th April 1982 Specified Waste Type: Deposited Waste included Inert, Industrial and Commercial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1000/0122 BGS Ref: Not Supplied Other Ref: LD35	A7NW (E)	89	3	433776 336989
43	**Historical Landfill Sites** Licence Holder: K and A Enterprises Limited Location: New Zealand, Derby Name: Kingsway Industrial Estate Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD22945 First Input Date: 3rd May 1990 Last Input Date: 31st December 1990 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1000/0136 BGS Ref: Not Supplied Other Ref: LD81	A2NE (S)	492	3	433370 336155
44	**Historical Landfill Sites** Licence Holder: J Sainsbury Plc and Leight Interests Plc Location: Uttoxeter Road, Derby, Derbyshire Name: Rowditch Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD22947 First Input Date: 31st December 1900 Last Input Date: 2nd September 1991 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1000/0407 BGS Ref: 1940 Other Ref: LD02	A2NE (S)	496	3	433370 336147

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	**Historical Landfill Sites** Licence Holder: K and A Enterprises Limited Location: Kingsway, Derby, Derbyshire Name: Kingsway Industrial Estate Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD22946 First Input Date: 3rd May 1990 Last Input Date: 31st December 1990 Specified Waste Type: Deposited Waste included Inert, Industrial and Commercial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1000/0136 BGS Ref: Not Supplied Other Ref: LD81	A2NE (S)	497	3	433352 336151
	Local Authority Landfill Coverage Name: Derby City Council - Has supplied landfill data		0	5	433480 337043
46	**Local Authority Recorded Landfill Sites** Location: Markeaton Street, Derby Reference: Not Supplied Authority: Derby City Council **Last Reported Status: Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Applicable	A7NE (E)	193	5	433900 337000
47	**Registered Landfill Sites** Licence Holder: Tarmac National Construction Licence Reference: LD54 Site Location: South East Of Kedleston Road /, Queensway Junction, Derby, Derbyshire Licence Easting: 433900 Licence Northing: 337450 Operator Location: Church Lane, Darley Abbey, Derby, Derbyshire Authority: Environment Agency - Midlands Region, Lower Trent Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 14th May 1982 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Prohibited Waste: Poisonous, Noxious, Polluting Wastes	A11NE (NE)	54	3	433900 337450
48	**Registered Landfill Sites** Licence Holder: Royal School For The Deaf Licence Reference: LD35 Site Location: Royal School For The Deaf, Ashbourne Road, Derby, Derbyshire Licence Easting: 433850 Licence Northing: 337000 Operator Location: As Site Address Authority: Environment Agency - Midlands Region, Lower Trent Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st November 1978 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction Ind. Wastes Foundry Sand - Ex Parker Foundry Ltd Ind. Non-Haz. Non-Flammable Solid Asbestos (Pipes,Sheets Etc) Prohibited Waste: Poisonous, Noxious, Polluting Wastes	A7NE (E)	150	3	433850 337000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic mudstones (including Keuper Marl, Dolomitic Conglomerate and Rhaetic)	A7NW (N)	0	2	433480 337043
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NE (SW)	0	6	433401 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NW (S)	0	6	433480 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (E)	0	6	433594 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (E)	0	6	433615 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11SE (NE)	0	6	433794 337174
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NE (S)	0	6	433400 336780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (NE)	0	6	433521 337074
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NE (S)	0	6	433413 336814
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (NE)	0	6	433546 337094
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NW (N)	0	6	433480 337043
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NE (W)	0	6	433397 337009
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A10SE (W)	49	6	433271 337076

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NW (W)	58	6	433000 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A10SE (W)	91	6	433223 337073
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SE)	113	6	433677 336843
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11NW (NE)	132	6	433744 337652
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NE (E)	150	6	434000 337043
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NE (W)	151	6	433140 337017

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NE (NE)	162	6	434000 337492
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (E)	197	6	434159 337043
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NE (E)	220	6	433930 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NE (NE)	254	6	434078 337552
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11NE (NE)	265	6	433923 337707
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NW (W)	270	6	433000 337043

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A10SW (W)	278	6	433026 337081
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NE (E)	285	6	434000 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (E)	289	6	434253 337151
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NW (W)	295	6	433000 337050
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (NE)	299	6	434142 337494
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11NE (NE)	303	6	433941 337740

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NW (W)	303	6	432806 336897
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A10SW (W)	305	6	433000 337086
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NW (SW)	308	6	433000 336353
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A10SW (W)	310	6	433000 337105
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: <15 mg/kg	A7NE (E)	319	6	434000 336920
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A5NE (W)	338	6	432771 336888

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NW (SW)	341	6	433000 336318
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A10SW (NW)	376	6	433000 337250
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A10SE (NW)	388	6	433177 337397
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NW (SW)	394	6	432946 336279
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NW (SW)	396	6	433000 336259
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NE (S)	398	6	433165 336197

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7SE (SE)	399	6	433877 336626
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A10SW (NW)	416	6	433000 337312
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	425	6	433157 337434
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: <15 mg/kg	A8NW (E)	437	6	434159 337000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NW (S)	442	6	433478 336349
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10SW (NW)	449	6	433000 337358

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NE (S)	451	6	433195 336187
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A3NW (S)	458	6	433523 336239
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	461	6	433146 337565
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NW (SW)	466	6	433000 336189
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14SE (N)	485	6	433408 337819
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NW (NW)	485	6	433000 337409

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NW (NW)	488	6	433043 337453
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A2NE (S)	488	6	433247 336162
49	**BGS Recorded Mineral Sites** Site Name: Rowditch Brick Works Location: , New Zealand, Derby Source: British Geological Survey, National Geoscience Information Service Reference: 34511 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7NW (SE)	24	2	433605 336960
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 433731, 337250 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 14.00 mg/kg Cadmium Measured Concentration: 3.60 mg/kg Chromium Measured Concentration: 77.00 mg/kg Lead Measured Concentration: 244.00 mg/kg Nickel Measured Concentration: 39.00 mg/kg	A11SW (NE)	0	2	433731 337250
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 433242, 336799 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 17.00 mg/kg Cadmium Measured Concentration: 2.00 mg/kg Chromium Measured Concentration: 74.00 mg/kg Lead Measured Concentration: 265.00 mg/kg Nickel Measured Concentration: 39.00 mg/kg	A6NE (SW)	0	2	433242 336799

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 433250, 337249 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 11.00 mg/kg Cadmium Measured Concentration: 1.40 mg/kg Chromium Measured Concentration: 79.00 mg/kg Lead Measured Concentration: 44.00 mg/kg Nickel Measured Concentration: 31.00 mg/kg	A10SE (NW)	232	2	433250 337249
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 433765, 336741 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 50.00 mg/kg Cadmium Measured Concentration: 2.60 mg/kg Chromium Measured Concentration: 68.00 mg/kg Lead Measured Concentration: 927.00 mg/kg Nickel Measured Concentration: 56.00 mg/kg	A7NW (SE)	240	2	433765 336741
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 433750, 337755 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 8.00 mg/kg Cadmium Measured Concentration: 1.70 mg/kg Chromium Measured Concentration: 89.00 mg/kg Lead Measured Concentration: 21.00 mg/kg Nickel Measured Concentration: 42.00 mg/kg	A15SW (N)	268	2	433750 337755
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 432755, 336762 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 13.00 mg/kg Cadmium Measured Concentration: 1.70 mg/kg Chromium Measured Concentration: 69.00 mg/kg Lead Measured Concentration: 264.00 mg/kg Nickel Measured Concentration: 42.00 mg/kg	A5NE (W)	313	2	432755 336762
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 433228, 336262 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 19.00 mg/kg Cadmium Measured Concentration: 1.40 mg/kg Chromium Measured Concentration: 88.00 mg/kg Lead Measured Concentration: 244.00 mg/kg Nickel Measured Concentration: 38.00 mg/kg	A2NE (S)	403	2	433228 336262

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 434258, 337230 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 13.00 mg/kg Cadmium Measured Concentration: 2.30 mg/kg Chromium Measured Concentration: 66.00 mg/kg Lead Measured Concentration: 281.00 mg/kg Nickel Measured Concentration: 29.00 mg/kg	A12SW (E)	452	2	434258 337230
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: Derby Count Id: 275 Arsenic Minimum Concentration: 6.00 mg/kg Arsenic Average Concentration: 16.00 mg/kg Arsenic Maximum Concentration: 63.00 mg/kg Cadmium Minimum Concentration: 0.30 mg/kg Cadmium Average Concentration: 2.40 mg/kg Cadmium Maximum Concentration: 12.50 mg/kg Chromium Minimum Concentration: 30.00 mg/kg Chromium Average Concentration: 69.00 mg/kg Chromium Maximum Concentration: 311.00 mg/kg Lead Minimum Concentration: 21.00 mg/kg Lead Average Concentration: 321.00 mg/kg Lead Maximum Concentration: 2053.00 mg/kg Nickel Minimum Concentration: 12.00 mg/kg Nickel Average Concentration: 34.00 mg/kg Nickel Maximum Concentration: 180.00 mg/kg	A7NW (N)	0	2	433480 337043
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	433480 337043
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (NE)	0	2	433794 337174
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	132	2	433744 337652
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SE (NE)	0	2	433794 337174
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	433480 337043
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	132	2	433744 337652

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	433480 337043
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	433480 337043
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	181	2	433831 337663
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6SW (SW)	193	2	432999 336479
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SE (NE)	0	2	433794 337174
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	433480 337043
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	433521 337074
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	132	2	433744 337652
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NW (E)	197	2	434159 337043
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	433546 337094
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	433271 337076
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	433548 337105
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	433480 337043
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	91	2	433223 337073
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	433480 337043
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	433480 337043

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	**Contemporary Trade Directory Entries** Name: Paint Wizard (Derby) Location: 24, Queensway, Derby, DE22 3BE Classification: Car Painters & Sprayers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (E)	0	-	433660 337069
51	**Contemporary Trade Directory Entries** Name: Mackworth Service Station Location: Kingsway, Derby, DE22 4AA Classification: Petrol Filling Stations - 24 Hour **Status: Active** Positional Accuracy: Automatically positioned to the address	A6NE (SW)	7	-	433347 336943
52	**Contemporary Trade Directory Entries** Name: Mike Rothon Location: 13, Hendon Way, Derby, DE22 4BZ Classification: Fork Lift Trucks **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6NW (SW)	46	-	433052 336741
52	**Contemporary Trade Directory Entries** Name: Acurat Location: 5, Hendon Way, Derby, DE22 4BZ Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Automatically positioned to the address	A6NW (SW)	58	-	433070 336774
53	**Contemporary Trade Directory Entries** Name: Dpts Location: 108, Windmill Hill Lane, Derby, Derbyshire, DE22 3BP Classification: Timber Preservation Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6NE (SW)	72	-	433340 336740
54	**Contemporary Trade Directory Entries** Name: Gti Auto Services Location: A, 17, Longford Street, Derby, DE22 1GJ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11NE (NE)	191	-	433950 337594
55	**Contemporary Trade Directory Entries** Name: Nick'S Lawnmowers Services Location: 3, Raleigh Street, Derby, DE22 3FF Classification: Lawnmowers & Garden Machinery - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	232	-	433054 336417
56	**Contemporary Trade Directory Entries** Name: Atlantis Blinds Location: 8, Maxwell Avenue, Derby, DE22 1GQ Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11NE (NE)	243	-	433875 337709
57	**Contemporary Trade Directory Entries** Name: John Cooper Location: Chandos Pole St, Derby, Derbyshire, DE22 3BA Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7NE (SE)	253	-	433817 336819
57	**Contemporary Trade Directory Entries** Name: John Coopers (Derby) Ltd Location: Chandos Pole Street, Derby, Derbyshire, DE22 3BA Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7NE (SE)	253	-	433817 336819
57	**Contemporary Trade Directory Entries** Name: Coopers Location: Chandos Pole St, Derby, Derbyshire, DE22 3BA Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7NE (SE)	253	-	433817 336819
57	**Contemporary Trade Directory Entries** Name: Denby Industrial Supplies Ltd Location: Chandos Pole Street, Derby, DE22 3BA Classification: Cleaning Materials & Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	254	-	433817 336819

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	**Contemporary Trade Directory Entries** Name: Cattermole Electrical Location: Homecare House, Chandos Pole Street, Derby, DE22 3BA Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	260	-	433813 336787
57	**Contemporary Trade Directory Entries** Name: Derwent Blinds Location: Unit 1,Chandos Pole St, Derby, Derbyshire, DE22 3BA Classification: Blinds, Awnings & Canopies **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SE)	274	-	433834 336804
57	**Contemporary Trade Directory Entries** Name: R S Autocraft Location: John Cooper Buildings,Chandos Pole St, Derby, DE22 3BA Classification: Classic Car Specialists **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SE)	274	-	433834 336804
57	**Contemporary Trade Directory Entries** Name: Derwent Blinds Ltd Location: Unit 1,Chandos Pole St, Derby, Derbyshire, DE22 3BA Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SE)	276	-	433840 336818
57	**Contemporary Trade Directory Entries** Name: Motorcycle Tyre Sales Location: Chandos Pole Street, Derby, DE22 3BA Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	288	-	433848 336803
57	**Contemporary Trade Directory Entries** Name: John Cooper Location: Chandos Pole Street, Derby, Derbyshire, DE22 3BA Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	288	-	433848 336803
57	**Contemporary Trade Directory Entries** Name: Derby Motorcycle Tyre Sales Location: Chandos Pole Street, Derby, DE22 3BA Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	288	-	433848 336803
57	**Contemporary Trade Directory Entries** Name: Pro Shift Technologies Ltd Location: Unit 1,John Cooper Building,Payne St, Derby, DE22 3BA Classification: Motor Cycle Repairs **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SE)	310	-	433880 336812
58	**Contemporary Trade Directory Entries** Name: Hamiltons Cleaning Location: 46, Brentford Drive, Derby, Derbyshire, DE22 4BP Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6NW (W)	257	-	432818 336775
59	**Contemporary Trade Directory Entries** Name: Derby Racing Services Ltd Location: Manchester Street, Derby, Derbyshire, DE22 3GA Classification: Machine Shops **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SW (SE)	262	-	433774 336717
59	**Contemporary Trade Directory Entries** Name: Alan Smith Location: Manchester Street, Derby, Derbyshire, DE22 3GA Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SW (SE)	262	-	433774 336717
60	**Contemporary Trade Directory Entries** Name: Park Motors Location: Kingsmead Industrial Estate, Payne Street, Derby, DE22 3AZ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	263	-	433881 336873

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**Contemporary Trade Directory Entries** Name: Flex-It Ltd Location: Kingsmead Industrial Estate, Payne Street, Derby, DE22 3AZ Classification: Printers - Glass, Metal, Plastics Etc. **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	263	-	433881 336873
60	**Contemporary Trade Directory Entries** Name: John Cooper (Derby) Ltd Location: Chandos House, Chandos Pole Street, Derby, DE22 3BJ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	278	-	433871 336845
61	**Contemporary Trade Directory Entries** Name: First Light Blinds Location: 53, Sherwin Street, Derby, Derbyshire, DE22 1GP Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11NE (NE)	294	-	434085 337607
62	**Contemporary Trade Directory Entries** Name: Technicar Location: Unit 7, Kingsmead Industrial Estate, Payne Street, Derby, Derbyshire, DE22 3AZ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	299	-	433888 336832
62	**Contemporary Trade Directory Entries** Name: Walpole Motors Location: Unit 7/8, Kingsmead Industrial Estate, Payne Street, Derby, Derbyshire, DE22 3AZ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	299	-	433888 336832
62	**Contemporary Trade Directory Entries** Name: A R C Plastics Ltd Location: Unit 6, Kingsmead Industrial Estate, Payne Street, Derby, DE22 3AZ Classification: Plastics - Welding **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	303	-	433883 336824
62	**Contemporary Trade Directory Entries** Name: S & L Garage Services Ltd Location: Unit 6, Kingsmead Industrial Estate, Payne Street, Derby, DE22 3AZ Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	303	-	433883 336824
62	**Contemporary Trade Directory Entries** Name: Evans & Cooper Location: Unit 3,John Cooper Buildings,Payne St, Derby, Derbyshire, DE22 3AZ Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SE)	310	-	433883 336814
62	**Contemporary Trade Directory Entries** Name: Tranters Ltd Location: Markeaton Printing Works, Kingsmead Industrial Estate, Payne Street, DERBY, DE22 3AZ Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	328	-	433927 336826
62	**Contemporary Trade Directory Entries** Name: Uk Print Options Ltd Location: Unit 3 & 4,Kingsmead Ind Est,Payne St, Derby, Derbyshire, DE22 3AZ Classification: Printers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A7NE (SE)	328	-	433926 336826
62	**Contemporary Trade Directory Entries** Name: Evans & Cooper Bodyworks Location: Unit 2, Kingsmead Industrial Estate, Payne Street, Derby, DE22 3AZ Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	332	-	433924 336819

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	**Contemporary Trade Directory Entries** Name: Dancing Duck Brewery Location: Unit 1,John Cooper Buildings,Payne St, Derby, Derbyshire, DE22 3AZ Classification: Brewers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A7NE (SE)	335	-	433918 336810
62	**Contemporary Trade Directory Entries** Name: Cattermole Electrical Location: Unit 1, Noel Street, Derby, DE22 3AX Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	336	-	433918 336810
62	**Contemporary Trade Directory Entries** Name: Neesham Location: Unit 2, Noel Street, Derby, Derbyshire, DE22 3AX Classification: Veterinary Equipment Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	340	-	433895 336779
62	**Contemporary Trade Directory Entries** Name: Derby Transit Centre Ltd Location: 16, Payne Street, Derby, DE22 3HW Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	343	-	433902 336788
63	**Contemporary Trade Directory Entries** Name: Burgess (Agricultural Engineers) Ltd Location: Manchester Street, Derby, DE22 3GB Classification: Lawnmowers & Garden Machinery - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SE)	327	-	433842 336699
64	**Contemporary Trade Directory Entries** Name: Spalton Nutrition Ltd Location: 16, Cobden Street, Derby, DE22 3GX Classification: Animal By-Products **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SW (S)	371	-	433609 336515
65	**Contemporary Trade Directory Entries** Name: Rowland Cobb Shop Location: 81, Ashbourne Road, DERBY, DE22 3FW Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SE)	371	-	433900 336711
65	**Contemporary Trade Directory Entries** Name: Locks & Lights Location: 81, Ashbourne Road, Derby, Derbyshire, DE22 3FW Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A7SE (SE)	371	-	433900 336711
65	**Contemporary Trade Directory Entries** Name: The Firework Shop Location: 98, Ashbourne Road, Derby, DE22 3AG Classification: Firework Stockists **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SE)	387	-	433928 336732
66	**Contemporary Trade Directory Entries** Name: Philip Sadler Location: 25, Radbourne Street, Derby, DE22 3HD Classification: Boilers - Servicing, Replacements & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SW (SE)	381	-	433742 336543
67	**Contemporary Trade Directory Entries** Name: Waste Energy Systems Ltd Location: 6-8 Kingsway Ind Pk,Kingsway Pk Cl, Derby, DE22 3FP Classification: Furnaces **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A2NW (SW)	394	-	432962 336275
68	**Contemporary Trade Directory Entries** Name: Waste Energy Systems Location: 8, Kingsway Industrial Park, Kingsway Park Close, DERBY, DE22 3FP Classification: Waste Processing Machinery **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A2NW (SW)	402	-	433004 336254

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	**Contemporary Trade Directory Entries** Name: Spiroll Precast Services Ltd Location: 2, Kingsway Industrial Park, Kingsway Park Close, Derby, DE22 3FP Classification: Engineering Machine Services **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A2NW (SW)	434	-	433020 336218
68	**Contemporary Trade Directory Entries** Name: Derwent Enamellers Derby Ltd Location: 12, Kingsway Industrial Park, Kingsway Park Close, Derby, DE22 3FP Classification: Spraying - Paint & Coatings **Status: Active** Positional Accuracy: Automatically positioned in the proximity of the address	A2NW (SW)	446	-	433002 336209
69	**Contemporary Trade Directory Entries** Name: Lilac Location: East Block, Markeaton Craft Village, Markeaton Park, Derby, DE22 3BG Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NE (N)	439	-	433348 337595
69	**Contemporary Trade Directory Entries** Name: Hammerhead Location: Unit B, Markeaton Craft Village, Markeaton Park, Derby, DE22 3BG Classification: Wrought Ironwork **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NE (N)	458	-	433337 337624
69	**Contemporary Trade Directory Entries** Name: Derby Stain Glass Location: Unit D, Markeaton Craft Village, Markeaton Park, Derby, DE22 3BG Classification: Stained Glass Designers & Producers **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NE (N)	466	-	433338 337652
70	**Contemporary Trade Directory Entries** Name: In Touch Location: Kingsway Pk Cl, Derby, Derbyshire, DE22 3FP Classification: Printers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A2NW (SW)	456	-	433070 336189
70	**Contemporary Trade Directory Entries** Name: W E Deane Ltd Location: Unit D, Kingsway Industrial Park, Kingsway Park Close, Derby, DE22 3FP Classification: Freight Forwarders **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A2NW (SW)	456	-	433070 336189
70	**Contemporary Trade Directory Entries** Name: Irongate Digital Location: Kingsway Ind Pk,Kingsway Pk Cl, Derby, Derbyshire, DE22 3FT Classification: Digital Printing **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A2NW (SW)	485	-	433027 336165
70	**Contemporary Trade Directory Entries** Name: Kingsway Blinds Location: Unit 1, Derby, Derbyshire, DE22 3FP Classification: Blinds, Awnings & Canopies **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A2NW (SW)	495	-	433069 336150
71	**Contemporary Trade Directory Entries** Name: Design Dock Ltd Location: 43, Kingsway Industrial Park, Kingsway Park Close, Derby, DE22 3FP Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A2NE (S)	460	-	433226 336202
72	**Contemporary Trade Directory Entries** Name: I P Motors Location: 26, Merchant Street, Derby, DE22 3AN Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (E)	471	-	434105 336803
72	**Contemporary Trade Directory Entries** Name: Uk Window Fabrications Location: 26, Merchant Street, Derby, DE22 3AN Classification: PVC-U Products - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (E)	471	-	434105 336803

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	**Fuel Station Entries** Name: Mackworth Service Station Location: Kingsway, Derby, DE22 4AA Brand: ESSO Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A6NE (SW)	8	-	433347 336943
74	**Fuel Station Entries** Name: Kingsmead Service Station Location: 91-97, Ashbourne Road, DERBY, Derbyshire, DE22 3AF Brand: Obsolete Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A7SE (SE)	346	-	433868 336705
75	**Fuel Station Entries** Name: Shell Friargate Location: Ashbourne Road, Derby, Derbyshire, DE22 3AF Brand: SHELL Premises Type: Petrol Station **Status: Closed** Positional Accuracy: Manually positioned to the address or location	A7NE (SE)	446	-	433995 336729

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	January 2013	Annual Rolling Update
Derby City Unitary Council - Environmental Health Department	January 2013	Annual Rolling Update
South Derbyshire District Council - Environmental Health Department	March 2013	Annual Rolling Update
Discharge Consents		
Environment Agency - Midlands Region	August 2014	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Midlands Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - Midlands Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - Midlands Region	August 2014	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Derby City Unitary Council - Environmental Health Department	April 2014	Annual Rolling Update
South Derbyshire District Council - Environmental Health Department	June 2012	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	October 2013	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Derby City Unitary Council - Environmental Health Department	April 2014	Annual Rolling Update
South Derbyshire District Council - Environmental Health Department	June 2013	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	October 2013	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Derby City Unitary Council - Environmental Health Department	April 2014	Annual Rolling Update
South Derbyshire District Council - Environmental Health Department	June 2013	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	October 2013	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency - Midlands Region	December 1999	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Midlands Region	March 2013	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - Midlands Region	March 2013	As notified
Registered Radioactive Substances		
Environment Agency - Midlands Region	August 2014	Quarterly
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - Midlands Region - East Area	August 2014	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	August 2014	Quarterly
Water Abstractions		
Environment Agency - Midlands Region	July 2014	Quarterly
Water Industry Act Referrals		
Environment Agency - Midlands Region	August 2014	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	October 2012	Annually
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	October 2012	Annually
Source Protection Zones		
Environment Agency - Head Office	April 2014	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2014	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2014	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	August 2014	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	August 2014	Quarterly
Flood Defences		
Environment Agency - Head Office	August 2014	Quarterly
Detailed River Network Lines		
Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage		
Environment Agency - Head Office	March 2012	Annually
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Midlands Region - East Area	May 2014	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	May 2014	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Midlands Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Midlands Region - East Area	July 2014	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	July 2014	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Midlands Region - East Area	August 2014	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	August 2014	Quarterly
Local Authority Landfill Coverage		
Amber Valley Borough Council	May 2000	Not Applicable
Derby City Council	May 2000	Not Applicable
Derbyshire County Council	May 2000	Not Applicable
South Derbyshire District Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Amber Valley Borough Council	May 2000	Not Applicable
Derby City Council	May 2000	Not Applicable
Derbyshire County Council	May 2000	Not Applicable
South Derbyshire District Council	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	August 2014	Bi-Annually
Explosive Sites		
Health and Safety Executive	November 2013	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
South Derbyshire District Council	April 2013	Annual Rolling Update
Derby City Unitary Council - Development and Cultural Services	August 2013	Annual Rolling Update
Amber Valley Borough Council	February 2013	Annual Rolling Update
Derbyshire County Council	March 2014	Annual Rolling Update
Planning Hazardous Substance Consents		
South Derbyshire District Council	April 2013	Annual Rolling Update
Derby City Unitary Council - Development and Cultural Services	August 2013	Annual Rolling Update
Amber Valley Borough Council	February 2013	Annual Rolling Update
Derbyshire County Council	March 2014	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2014	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	June 2011	Annually
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	June 2011	Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	December 2013	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	August 2014	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2014	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt		
Amber Valley Borough Council	August 2014	As notified
Derby City Unitary Council - Development and Cultural Services	August 2014	As notified
South Derbyshire District Council	August 2014	As notified
Areas of Unadopted Green Belt		
Amber Valley Borough Council	August 2014	As notified
Derby City Unitary Council - Development and Cultural Services	August 2014	As notified
South Derbyshire District Council	August 2014	As notified
Areas of Outstanding Natural Beauty		
Natural England	August 2014	Bi-Annually
Environmentally Sensitive Areas		
Natural England	August 2014	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	March 2014	Bi-Annually
Marine Nature Reserves		
Natural England	July 2013	Bi-Annually
National Nature Reserves		
Natural England	March 2014	Bi-Annually
National Parks		
Natural England	August 2014	Bi-Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	July 2014	Annually
Ramsar Sites		
Natural England	March 2014	Bi-Annually
Sites of Special Scientific Interest		
Natural England	March 2014	Bi-Annually
Special Areas of Conservation		
Natural England	March 2014	Bi-Annually
Special Protection Areas		
Natural England	March 2014	Bi-Annually

Data Suppliers

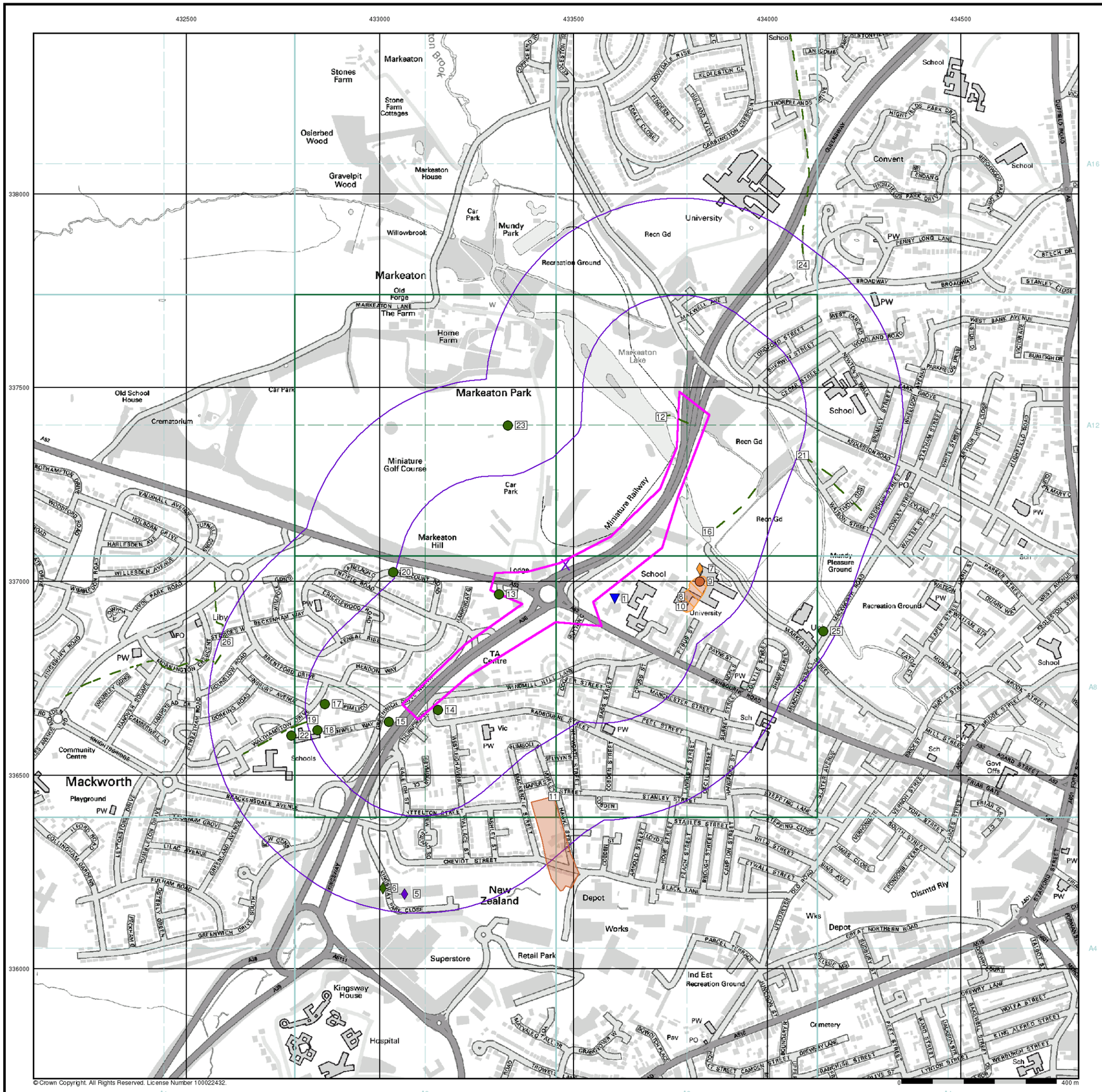
A selection of organisations who provide data within this report

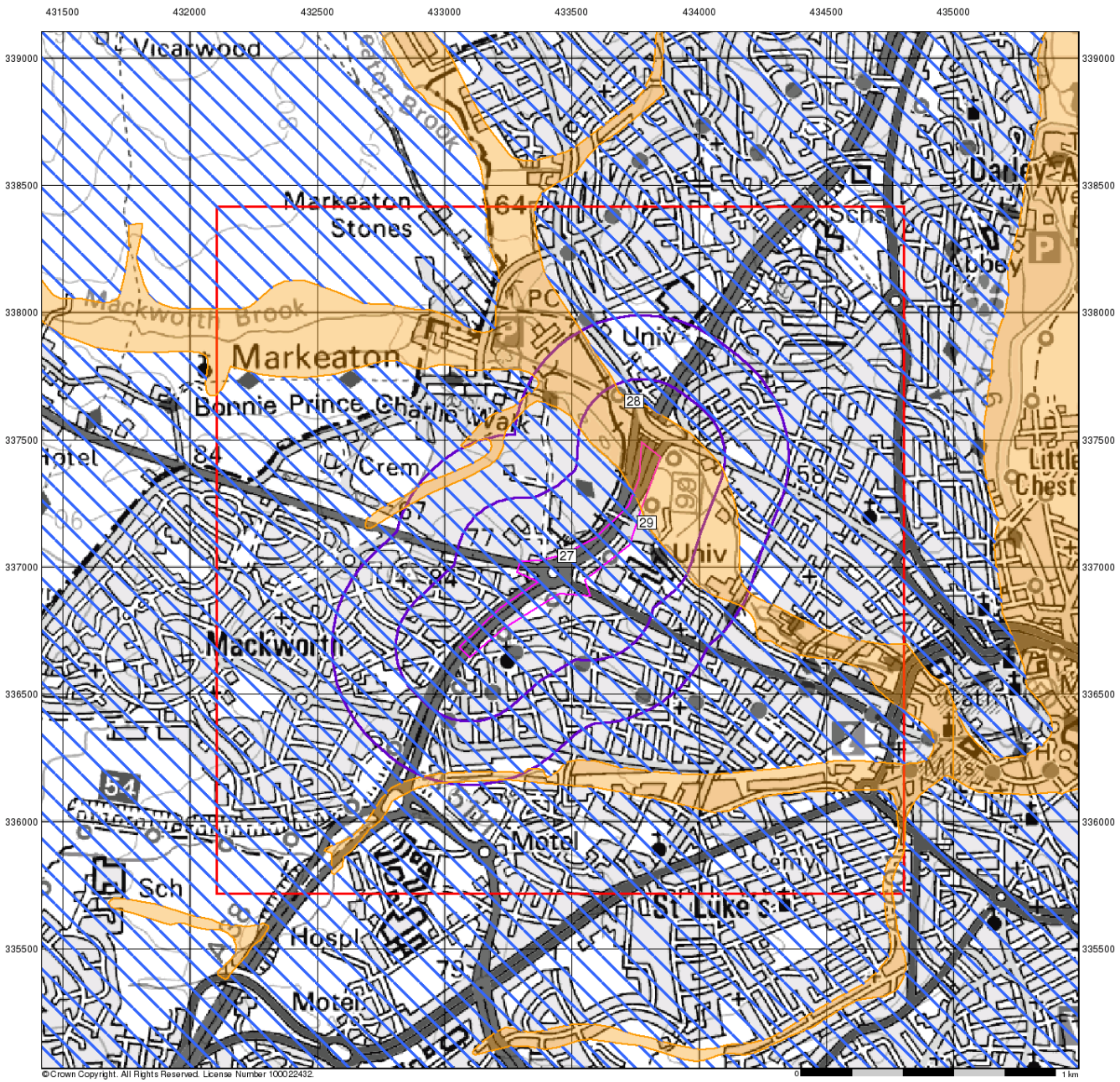
Data Supplier	Data Supplier Logo
Ordnance Survey	Ordnance Survey Licensed Partner
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	THE COAL AUTHORITY
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett

Useful Contacts

Contact	Name and Address	Contact Details
2	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Derby City Unitary Council - Environmental Health Department** Celtic House, Heritage Gate, Derby, Derbyshire, DE1 1LS	Telephone: 01332 255228 Fax: 01332 255500 Website: www.derby.gov.uk
5	**Derby City Council** The Council House, Corporation Street, Derby, Derbyshire, DE1 2FS	Telephone: 01332 293111 Fax: 01332 255500
6	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
7	**Natural England** Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
8	**Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)** Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.


432500
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336500
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A16
A12
A8
A4
Markeaton
Stones Farm
Stone Farm Cottages
Osierbed Wood
Gravelpit Wood
Markeaton House
Willowbrook
Car Park
Mundy Park
Recreation Ground
Recn Gd
University
Convent
School
Markeaton
Old Forge
The Farm
Home Farm
Markeaton Lake
Markeaton Park
Old School House
Crematorium
Car Park
Miniature Golf Course
Miniature Railway
Markeaton Hill
Lodge
TA Centre
Community Centre
Schools
Mackworth
Playground
New Zealand
Depot
Works
Superstore
Retail Park
Kingsway House
Hospital
Ind Est
Recreation Ground
Cemetery
Mundy Pleasure Ground
Dismtd Rly
Govt Offs
Vic
Sch
Liby
PO
PW
Wks
Psv
Brook
Markeaton Lane
Broadway
Penny Long Lane
Thorpelands Avenue
Queensway
Kedleston Road
Duffield Road
Normanton Road
Osmaston Road
Ashbourne Road
Manchester Street
Peel Street
Stanley Street
Stepping Lane
Chevdt Street
Slack Lane
Radbourne Street
Windmill Hill Lane
Great Northern Road
Parcel Terrace
Friar Gate
Agard Street
Bridge Street
Mill Street
Brook Street
Siddals Road
Normanton Park
Normanton Walk
Sherwin Street
Longford Street
Cedar Street
Broadway
Stanley Close
Beech Dr
Burleigh Dr
Victoria Ave
West Bank Avenue
Parkfields Drive
Arthur Hind Close
Highfield Road
Stanhope Street
White Street
Wheldon Grove
Bromley Street
Cowley Street
Walker St
Walbrook Close
Watson Street
Leopold Street
Parker Street
Quorn Way
Bunny St
Queen Street
Derby Rd
Wolfa Street
King Alfred Street
Werburgh Street
Drewry Lane
Bakewell Street
Jackson Street
Boundary Rd
Row Of Trees
Cemetery Rd
Drive St
Franchise Street
Lytton Street
Ford St
Parker Street
Queen Street
Bunny St
Leopold Street
Watson Street
Walker St
Cowley Street
Bromley Street
Wheldon Grove
Stanhope Street
White Street
Arthur Hind Close
Highfield Road
Normanton Walk
Normanton Park
Sherwin Street
Longford Street
Cedar Street
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Stanley Close
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Duffield Road
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Chevdt Street
Slack Lane
Radbourne Street
Windmill Hill Lane
Great Northern Road
Parcel Terrace
Friar Gate
Agard Street
Bridge Street
Mill Street
Brook Street
Siddals Road
Normanton Park
Normanton Walk



Envirocheck Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Potential for Compressible Ground Stability Hazards

High | Low | Moderate | Very Low

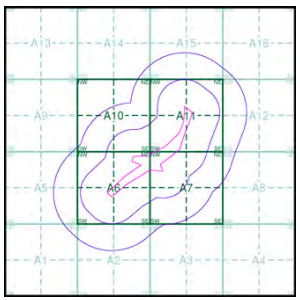
Potential for Collapsible Ground Stability Hazards

High | Low | Moderate | Very Low

Brine Pumping and Salt Mining

	Point	Polygon
Brine Pumping Related Feature	▲	▨
Salt Mining Related Feature	▲	▨

Mining and Ground Stability - Slice A



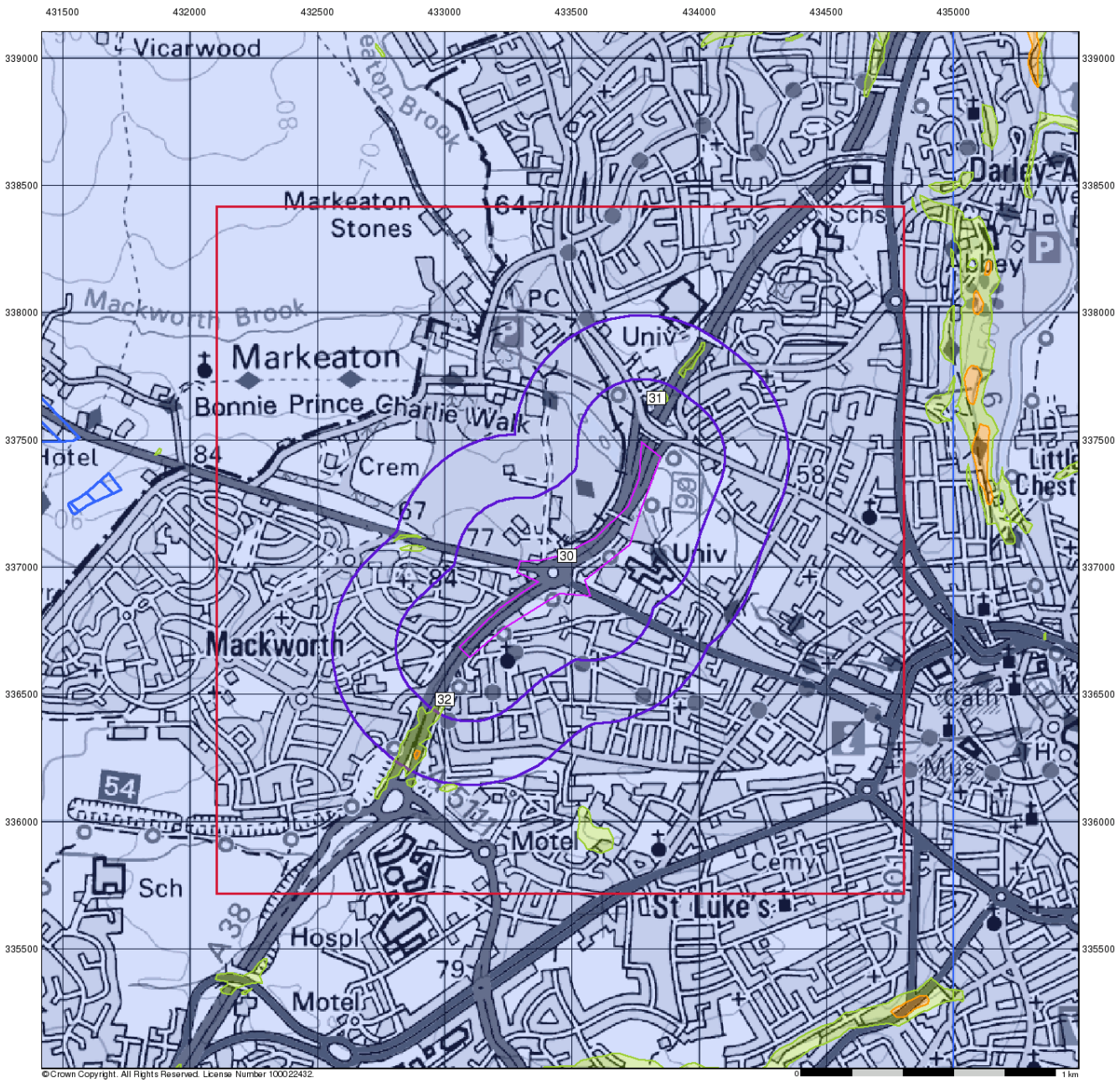
Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

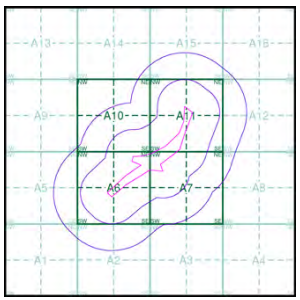
Potential for Landslide Ground Stability Hazards

High | Low | Moderate | Very Low

Potential for Ground Dissolution Stability Hazards

High | Low | Moderate | Very Low

Mining and Ground Stability - Slice A



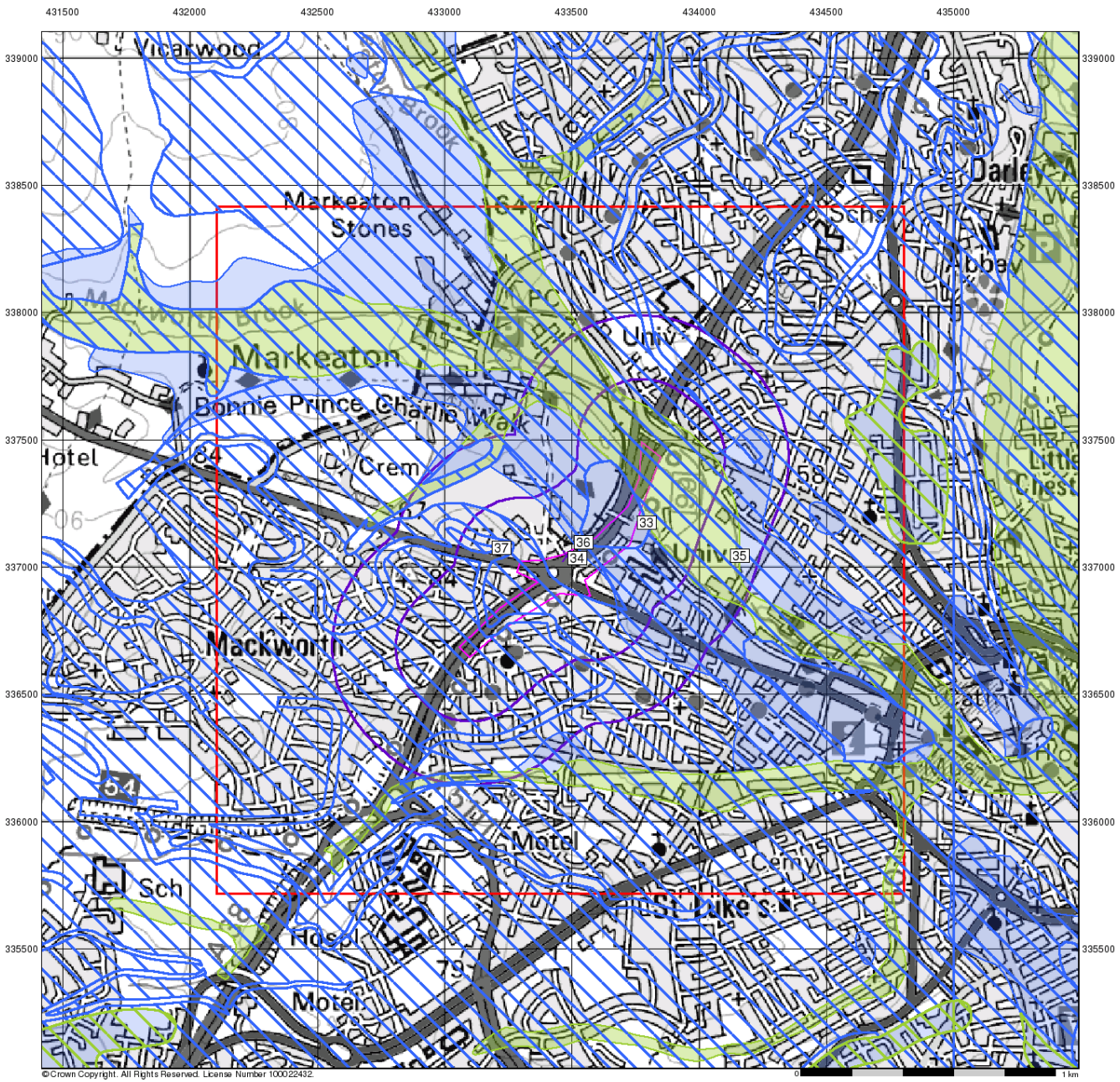
Order Details

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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
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Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

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Tel: 0844 844 9952
Fax: 0844 844 9951
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Envirocheck Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

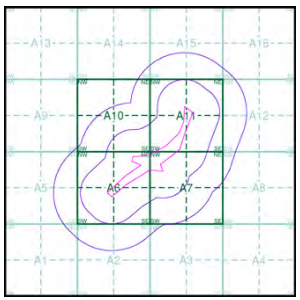
Potential for Running Sand Ground Stability Hazards

High | Low | Moderate | Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

High | Low | Moderate | Very Low

Mining and Ground Stability - Slice A



Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:
60387091_1_1

Customer Reference:
47071637.208APS

National Grid Reference:
433480, 337040

Slice:
A

Site Area (Ha):
10.53

Search Buffer (m):
500

Site Details:

Site at
Derby
City of Derby

Client Details:

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Basil Close
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Derbyshire
S41 7SL

Prepared For:

URS
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Basil Close
Chesterfield
Derbyshire
S41 7SL

Contents

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	2
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	3
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	5
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Motion Map Data (1:2,500)	7
The Motion Map Data (1:2,500) section contains data which is plotted to indicate long-term stability trends from analysis of satellite radar data.	
Historical Map List	28
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

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Coal Mining Affected Areas			n/a	n/a
Man Made Mining Cavities				
Mining Instability			n/a	n/a
Natural Cavities				
Non Coal Mining Areas of Great Britain				n/a
Potential Mining Areas				
Historical Land Use Information (1:2,500)				
Extractive Industries or Potential Excavations from 1855-1909				n/a
Extractive Industries or Potential Excavations from 1893-1915				n/a
Extractive Industries or Potential Excavations from 1906-1937				n/a
Extractive Industries or Potential Excavations from 1924-1949				n/a
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Summary

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Ground Stability Data (1:50,000)				
Brine Compensation Area			n/a	n/a
Brine Pumping Related Features				
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Potential for Ground Dissolution Stability Hazards	pg 5	Yes		n/a
Potential for Landslide Ground Stability Hazards	pg 5	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 5	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 5	Yes	Yes	n/a
Salt Mining Related Features				
Subsidence Insurance Claims				n/a
Subsidence Investigations				n/a
Motion Map Data (1:2,500)				
Motion Map	pg 7	35	377	n/a

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Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**BGS Recorded Mineral Sites** Site Name: Rowditch Brick Works Location: , New Zealand, Derby Source: British Geological Survey, National Geoscience Information Service Reference: 34511 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7NW (SE)	24	1	433605 336960
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				

Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Extractive Industries or Potential Excavations from 1950-1980** Use: Pond First Map Published Date: 1948 Last Map Published Date: N/A	A6NE (SW)	0	-	433317 336970
3	**Extractive Industries or Potential Excavations from 1950-1980** Use: Pond First Map Published Date: 1948 Last Map Published Date: 1969	A11SW (NE)	5	-	433788 337173
4	**Extractive Industries or Potential Excavations from 1950-1980** Use: Mill Pond First Map Published Date: 1948 Last Map Published Date: 1969	A11SE (E)	118	-	433851 337082

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Disturbed Ground** Use: Not Supplied Date of Mapping: 1955	A2NW (SW)	453	-	433048 336194
6	**Heap, unknown constituents** Use: Not Supplied Date of Mapping: 1955	A2NW (SW)	445	-	433007 336209
7	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1901	A7NE (E)	111	-	433826 337033
8	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1887	A7NW (E)	115	-	433778 336961
9	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A7NE (E)	111	-	433826 337033
10	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A7NW (E)	115	-	433778 336961
11	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A6SE (S)	353	-	433450 336445
12	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11NW (NE)	0	-	433726 337424
13	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A6NE (SW)	1	-	433307 336967
14	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A6SE (SW)	14	-	433149 336668
15	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A6SW (SW)	57	-	433023 336638
16	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11SE (E)	101	-	433847 337128
17	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A6SW (SW)	201	-	432857 336683
18	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A6SW (SW)	231	-	432835 336627
19	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A6SW (SW)	236	-	432826 336644
20	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A6NW (W)	257	-	433034 337024
21	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A11SE (NE)	262	-	434090 337325
22	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A5SE (SW)	298	-	432771 336603
23	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A10SE (NW)	378	-	433330 337403
24	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A15SE (NE)	454	-	434091 337817
25	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A8NW (E)	469	-	434144 336872

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A5NE (W)	478	-	432604 336844

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Brine Compensation Area The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
27	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	433480 337043
28	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	132	1	433744 337652
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (NE)	0	1	433794 337174
29	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SE (NE)	0	1	433794 337174
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	433480 337043
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	132	1	433744 337652
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	433480 337043
30	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	433480 337043
31	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	181	1	433831 337663
32	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6SW (SW)	193	1	432999 336479
33	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SE (NE)	0	1	433794 337174
34	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	433521 337074
35	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NW (E)	197	1	434159 337043
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	433480 337043
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	132	1	433744 337652
36	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	433546 337094
37	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	91	1	433223 337073
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	1	433271 337076
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	433548 337105

Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	433480 337043

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A11SW (NE)	0	-	433781 337351
38	**Motion Map** Average Velocity Gradient (mmyear): -1.4	A11SW (NE)	0	-	433779 337343
38	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A11SW (NE)	0	-	433783 337359
39	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A11SW (NE)	0	-	433757 337182
39	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A11SW (NE)	0	-	433756 337182
40	**Motion Map** Average Velocity Gradient (mmyear): -0.8	A11SW (NE)	0	-	433779 337339
41	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A11SW (NE)	0	-	433788 337382
41	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A11SE (NE)	0	-	433792 337389
42	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7NW (SW)	0	-	433461 337016
43	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A11NE (NE)	0	-	433794 337442
43	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A11NE (NE)	0	-	433799 337445
44	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NW (E)	0	-	433614 337043
44	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7NW (E)	0	-	433616 337047
45	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A6NE (SW)	0	-	433375 336962
46	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A11SW (NE)	0	-	433757 337267
47	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NE (W)	0	-	433347 337013
47	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6NE (W)	0	-	433349 337005
48	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A7NW (E)	0	-	433593 337019
49	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A7NW (E)	0	-	433573 337015
50	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A11SW (NE)	0	-	433770 337309

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A11SW (NE)	0	-	433787 337366
52	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A11SW (E)	0	-	433653 337079
52	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A11SW (E)	0	-	433658 337074
52	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A11SW (E)	0	-	433655 337075
52	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A11SW (E)	0	-	433652 337071
53	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A6NE (W)	0	-	433354 336999
53	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6NE (W)	0	-	433350 337000
53	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A6NE (W)	0	-	433359 337002
54	**Motion Map** Average Velocity Gradient (mmyear): -1.6	A6NE (SW)	0	-	433387 336980
55	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A11SW (E)	0	-	433604 337082
55	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A11SW (E)	0	-	433600 337082
55	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A11SW (E)	0	-	433601 337078
55	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A11SW (E)	0	-	433600 337078
56	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A11SW (E)	0	-	433646 337068
57	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6NE (W)	0	-	433370 337004
58	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NW (E)	12	-	433650 337010
58	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7NW (E)	15	-	433649 337006
59	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A11NE (NE)	15	-	433810 337479
59	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A11NE (NE)	16	-	433806 337484
59	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A11NE (NE)	16	-	433805 337484

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6SE (SW)	16	-	433138 336657
61	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6NW (SW)	18	-	433089 336737
62	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A7NW (SE)	19	-	433578 336925
62	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7NW (SE)	20	-	433581 336920
63	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A6NE (SW)	22	-	433301 336775
63	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6NE (SW)	23	-	433298 336772
63	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NE (SW)	26	-	433303 336771
63	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6NE (SW)	29	-	433301 336767
64	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NW (S)	23	-	433508 336867
65	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6SE (SW)	24	-	433148 336655
65	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6SE (SW)	25	-	433145 336651
66	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6NE (SW)	25	-	433179 336831
67	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6NW (SW)	26	-	433077 336736
67	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A6NW (SW)	27	-	433079 336739
67	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6NW (SW)	29	-	433073 336736
67	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NW (SW)	31	-	433074 336740
68	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6SW (SW)	27	-	433051 336713
69	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A6NE (SW)	29	-	433202 336858
69	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6NE (SW)	30	-	433200 336859
70	**Motion Map** Average Velocity Gradient (mmyear): -0.8	A11NE (NE)	30	-	433807 337500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A11NE (NE)	31	-	433809 337499
70	**Motion Map** Average Velocity Gradient (mmyear): -0.8	A11NE (NE)	34	-	433810 337503
70	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A11NE (NE)	34	-	433808 337504
70	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A11NE (NE)	38	-	433811 337507
71	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6NE (SW)	31	-	433203 336862
71	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NE (SW)	33	-	433200 336863
71	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A6NE (SW)	35	-	433202 336867
71	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A6NE (SW)	38	-	433203 336870
71	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A6NE (SW)	38	-	433197 336867
71	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NE (SW)	39	-	433201 336871
72	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6NE (SW)	31	-	433133 336797
73	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A6SE (SW)	37	-	433167 336655
73	**Motion Map** Average Velocity Gradient (mmyear): -1.4	A6SE (SW)	42	-	433170 336650
74	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A6NE (SW)	40	-	433298 336751
75	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7NW (E)	41	-	433663 336983
75	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7NW (E)	44	-	433662 336979
76	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6SE (SW)	42	-	433225 336698
76	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6SE (SW)	44	-	433225 336694
76	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6SE (SW)	45	-	433222 336691
76	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6SE (SW)	46	-	433227 336694

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6NE (SW)	44	-	433284 336738
77	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A6NE (SW)	47	-	433283 336735
78	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A7NW (S)	46	-	433559 336840
78	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7NW (S)	49	-	433555 336837
78	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NW (S)	50	-	433559 336836
78	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A7NW (S)	54	-	433558 336832
79	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6NE (SW)	46	-	433232 336901
80	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NW (S)	48	-	433483 336844
80	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NW (S)	52	-	433479 336841
80	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A7NW (S)	56	-	433479 336837
81	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A6NE (SW)	50	-	433152 336841
82	**Motion Map** Average Velocity Gradient (mmyear): 1.0	A7NW (SE)	53	-	433653 336961
83	**Motion Map** Average Velocity Gradient (mmyear): 1.5	A6SE (SW)	55	-	433205 336663
84	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6SE (SW)	58	-	433123 336591
85	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NW (E)	61	-	433684 336974
86	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A7NW (E)	63	-	433674 336964
86	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A7NW (E)	64	-	433676 336964
87	**Motion Map** Average Velocity Gradient (mmyear): -1.3	A7NW (SE)	67	-	433639 336891
87	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A7NW (SE)	68	-	433640 336886
88	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6SE (SW)	69	-	433165 336610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A7NW (E)	74	-	433740 337003
90	**Motion Map** Average Velocity Gradient (mmyear): -0.9	A6SW (SW)	76	-	432993 336722
90	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A6SW (SW)	78	-	432991 336722
91	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A11SE (E)	78	-	433810 337085
91	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A11SE (E)	80	-	433812 337088
92	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A6SW (SW)	80	-	433056 336578
92	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A6SW (SW)	81	-	433053 336578
93	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A7NW (SE)	81	-	433653 336884
94	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A7NW (SE)	86	-	433598 336803
95	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A7NW (SE)	88	-	433646 336836
96	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6SE (SW)	89	-	433123 336559
96	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A6SE (SW)	91	-	433120 336555
97	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7NW (SE)	89	-	433671 336929
98	**Motion Map** Average Velocity Gradient (mmyear): 2.0	A6NE (W)	98	-	433189 336983
99	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A7NW (S)	99	-	433582 336786
100	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6NW (SW)	100	-	433093 336854
100	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A6NW (SW)	101	-	433096 336858
100	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A6NW (SW)	101	-	433092 336854
100	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (SW)	108	-	433087 336859
101	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6NW (SW)	102	-	433087 336851

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6NW (SW)	106	-	433104 336872
102	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A6NW (SW)	107	-	433103 336872
102	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A6NW (SW)	107	-	433100 336869
103	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A7NW (E)	109	-	433768 336980
103	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7NW (E)	115	-	433772 336975
104	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A6SE (SW)	111	-	433128 336537
105	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A7NW (SE)	115	-	433664 336816
105	**Motion Map** Average Velocity Gradient (mmyear): -0.8	A7NW (SE)	118	-	433666 336812
106	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7NW (S)	117	-	433540 336770
107	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7NW (SE)	117	-	433612 336775
108	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A6NE (W)	118	-	433163 336940
108	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A6NE (W)	119	-	433161 336941
108	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6NE (W)	121	-	433164 336944
108	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A6NE (W)	122	-	433161 336945
109	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7NW (S)	119	-	433580 336766
109	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A7NW (S)	123	-	433580 336762
110	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A7NW (S)	119	-	433529 336769
111	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6NW (SW)	119	-	433078 336865
112	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6SE (S)	119	-	433340 336685
112	**Motion Map** Average Velocity Gradient (mmyear): -0.8	A6SE (S)	122	-	433345 336684

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6NW (SW)	120	-	433056 336846
113	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NW (SW)	124	-	433052 336847
114	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A6SE (SW)	120	-	433268 336632
114	**Motion Map** Average Velocity Gradient (mmyear): -1.0	A6SE (SW)	124	-	433270 336628
115	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A7NW (E)	123	-	433782 336973
116	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A6SE (SW)	125	-	433125 336522
116	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A6SE (SW)	131	-	433128 336517
116	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6SE (SW)	133	-	433124 336514
117	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6SW (SW)	126	-	433101 336519
118	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A6SE (SW)	127	-	433225 336585
119	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A6NE (W)	128	-	433159 336966
119	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6NE (W)	128	-	433159 336961
119	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NE (W)	131	-	433156 336958
119	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6NE (W)	133	-	433154 336967
119	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NE (W)	134	-	433153 336963
119	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NE (W)	134	-	433153 336959
120	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A6SE (SW)	128	-	433266 336620
120	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A6SE (SW)	132	-	433269 336616
120	**Motion Map** Average Velocity Gradient (mmyear): 1.0	A6SE (SW)	136	-	433273 336615
120	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A6SE (SW)	136	-	433269 336611

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A7NW (SE)	130	-	433599 336758
121	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NW (SE)	132	-	433604 336757
121	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A7NW (SE)	135	-	433601 336753
121	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A7NW (SE)	135	-	433601 336753
121	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A7NW (SE)	139	-	433603 336749
122	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NW (S)	132	-	433534 336756
123	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7NW (SE)	134	-	433665 336788
123	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NW (SE)	136	-	433664 336784
124	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6NE (W)	136	-	433152 336955
125	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A7NW (E)	139	-	433762 336937
125	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A7NW (E)	141	-	433760 336933
126	**Motion Map** Average Velocity Gradient (mmyear): 0.9	A6SE (SW)	139	-	433272 336611
127	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6SE (S)	142	-	433444 336723
127	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6SE (S)	143	-	433447 336722
128	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A7NW (SE)	143	-	433661 336772
128	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7NW (SE)	145	-	433655 336765
128	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NW (SE)	151	-	433658 336761
128	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7NW (SE)	155	-	433659 336756
129	**Motion Map** Average Velocity Gradient (mmyear): 1.5	A6SE (SW)	148	-	433269 336595
129	**Motion Map** Average Velocity Gradient (mmyear): 1.5	A6SE (SW)	152	-	433273 336594

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NW (S)	150	-	433598 336737
130	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A7NW (S)	151	-	433601 336737
130	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A7NW (S)	158	-	433600 336729
131	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6SW (SW)	152	-	432940 336587
132	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A7NW (SE)	152	-	433679 336776
132	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7NW (SE)	153	-	433676 336773
132	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NW (SE)	155	-	433683 336775
132	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A7NW (SE)	157	-	433681 336772
133	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A7NW (SE)	153	-	433700 336800
134	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A7NW (SE)	154	-	433653 336753
135	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A6SW (SW)	155	-	432905 336705
136	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A6SW (SW)	156	-	432905 336713
136	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6SW (SW)	158	-	432904 336717
137	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NE (W)	159	-	433127 336973
137	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6NE (W)	160	-	433126 336977
137	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NE (W)	162	-	433124 336973
138	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6SW (SW)	159	-	432911 336622
139	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A10SE (N)	160	-	433448 337218
140	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A11NE (NE)	162	-	433949 337558
140	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A11NE (NE)	167	-	433952 337561

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A11NE (NE)	168	-	433954 337561
140	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A11NE (NE)	168	-	433961 337555
141	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A6NE (W)	163	-	433121 336966
142	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6SE (SW)	163	-	433238 336549
143	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A7SW (S)	164	-	433499 336727
143	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7SW (S)	168	-	433503 336722
144	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A7NW (SE)	164	-	433714 336801
144	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A7NW (SE)	165	-	433717 336804
145	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A11NE (NE)	164	-	433960 337551
146	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A6NE (W)	165	-	433121 336982
146	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A6NE (W)	166	-	433121 336986
146	**Motion Map** Average Velocity Gradient (mmyear): -1.0	A6NW (W)	170	-	433116 336983
147	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A7SW (S)	167	-	433603 336720
147	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A7SW (S)	167	-	433603 336720
148	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A6SW (SW)	167	-	432892 336692
148	**Motion Map** Average Velocity Gradient (mmyear): 0.9	A6SW (SW)	172	-	432887 336697
149	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A7SW (S)	168	-	433560 336717
149	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A7SW (S)	169	-	433565 336716
149	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A7SW (S)	172	-	433562 336713
149	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A7SW (S)	172	-	433560 336714

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A7NE (E)	168	-	433826 336951
150	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7NE (E)	168	-	433823 336947
150	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NE (E)	168	-	433823 336947
150	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A7NE (E)	172	-	433831 336950
151	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A11NE (NE)	169	-	434016 337466
151	**Motion Map** Average Velocity Gradient (mmyear): -1.0	A11NE (NE)	169	-	434015 337466
151	**Motion Map** Average Velocity Gradient (mmyear): -1.3	A11NE (NE)	169	-	434015 337470
151	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A11NE (NE)	174	-	434020 337469
152	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A11NE (NE)	170	-	434000 337510
153	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7NE (E)	172	-	433823 336943
153	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A7NE (E)	174	-	433818 336936
153	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NE (E)	176	-	433816 336932
153	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A7NE (E)	176	-	433825 336939
154	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7NW (SE)	174	-	433651 336730
154	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7SW (SE)	178	-	433651 336725
155	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7NE (E)	174	-	433802 336924
155	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NE (E)	177	-	433806 336923
156	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	174	-	432996 336864
156	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NW (W)	175	-	432998 336867
156	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6NW (W)	175	-	432992 336861

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	177	-	432993 336865
156	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	179	-	432994 336868
157	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A6SW (SW)	175	-	433010 336494
158	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6SE (S)	176	-	433450 336685
158	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A6SE (S)	183	-	433453 336680
158	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6SE (S)	183	-	433453 336680
159	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6SE (S)	177	-	433397 336652
160	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7SW (S)	178	-	433456 336688
160	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7SW (S)	180	-	433454 336684
160	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7SW (S)	181	-	433455 336684
161	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A10SE (N)	179	-	433425 337227
162	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A6NW (W)	181	-	433019 336895
163	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6SE (SW)	181	-	433211 336503
164	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6SE (SW)	181	-	433238 336525
164	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A6SE (SW)	182	-	433235 336522
165	**Motion Map** Average Velocity Gradient (mmyear): -1.0	A10SE (N)	183	-	433439 337240
166	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NE (SE)	185	-	433799 336908
166	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NE (SE)	189	-	433801 336904
167	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A6NW (SW)	186	-	432900 336779
167	**Motion Map** Average Velocity Gradient (mmyear): 1.2	A6NW (SW)	191	-	432894 336780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
168	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A11NE (NE)	187	-	434036 337408
169	**Motion Map** Average Velocity Gradient (mmyear): -0.9	A6NW (SW)	187	-	432886 336758
170	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A7SW (S)	187	-	433478 336691
170	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7SW (S)	190	-	433479 336687
170	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7SW (S)	193	-	433482 336686
170	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A7SW (S)	193	-	433477 336683
170	**Motion Map** Average Velocity Gradient (mmyear): -0.8	A7SW (S)	196	-	433482 336682
171	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A11NE (NE)	188	-	434027 337491
172	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A6SW (SW)	190	-	433049 336461
172	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6SW (SW)	190	-	433044 336462
173	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	192	-	433021 336911
174	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A7NW (SE)	192	-	433754 336824
174	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A7NW (SE)	194	-	433755 336820
174	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NW (SE)	194	-	433755 336820
174	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A7NW (SE)	194	-	433754 336816
175	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A11NE (NE)	193	-	433865 337658
176	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NW (SE)	194	-	433738 336784
176	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A7NW (SE)	202	-	433746 336782
177	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A7NE (E)	194	-	433847 336934
178	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A6SE (S)	194	-	433412 336641

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A6SE (S)	197	-	433411 336637
178	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A6SE (S)	199	-	433413 336636
179	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A7NE (E)	197	-	433835 336920
179	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A7NE (E)	199	-	433833 336917
179	**Motion Map** Average Velocity Gradient (mmyear): -0.8	A7NE (E)	200	-	433831 336913
179	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7NE (E)	203	-	433834 336912
180	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7NW (SE)	198	-	433784 336879
181	**Motion Map** Average Velocity Gradient (mmyear): -0.8	A11NE (NE)	200	-	433901 337642
182	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7SW (S)	201	-	433594 336685
182	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7SW (S)	204	-	433593 336682
182	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7SW (S)	204	-	433592 336682
183	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A6SW (SW)	202	-	432858 336704
184	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	202	-	432917 336828
184	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6NW (W)	207	-	432919 336836
184	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NW (W)	208	-	432914 336833
185	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7NW (SE)	203	-	433704 336730
186	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A11NE (NE)	204	-	434053 337409
187	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7NE (E)	204	-	433828 336906
187	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A7NE (E)	205	-	433829 336905
187	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NE (E)	208	-	433829 336901

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
187	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NE (E)	210	-	433831 336901
188	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6NW (W)	206	-	432898 336812
188	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A6NW (W)	208	-	432899 336816
188	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	209	-	432895 336813
188	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6NW (W)	209	-	432900 336820
188	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6NW (W)	211	-	432895 336817
189	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A7SW (S)	206	-	433482 336670
189	**Motion Map** Average Velocity Gradient (mmyear): 1.2	A7SW (S)	207	-	433483 336670
189	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7SW (S)	208	-	433480 336666
189	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A7SW (S)	211	-	433483 336665
189	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A7SW (S)	216	-	433485 336661
190	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6SE (S)	206	-	433352 336589
191	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A7SW (SE)	207	-	433656 336696
191	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A7SW (SE)	208	-	433660 336695
191	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7SW (SE)	209	-	433654 336692
191	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A7SW (SE)	210	-	433656 336692
192	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6SW (SW)	208	-	432851 336685
192	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A6SW (SW)	209	-	432849 336681
192	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A6SW (SW)	215	-	432844 336678
193	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NW (W)	209	-	432930 336850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
193	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6NW (W)	212	-	432927 336851
193	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A6NW (W)	213	-	432929 336854
194	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	209	-	432916 336837
194	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6NW (W)	210	-	432919 336840
194	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	211	-	432917 336841
194	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NW (W)	214	-	432917 336845
194	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	215	-	432913 336841
194	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NW (W)	218	-	432913 336846
195	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6NW (W)	210	-	432886 336803
195	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A6NW (W)	214	-	432886 336811
196	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A11NE (NE)	211	-	433973 337601
197	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6NW (W)	211	-	432882 336800
197	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	211	-	432880 336796
197	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A6NW (W)	218	-	432878 336805
198	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7SW (S)	212	-	433532 336675
199	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7NW (SE)	213	-	433770 336805
200	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A11NW (N)	214	-	433746 337701
200	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A11NW (N)	219	-	433744 337705
201	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A11NE (NE)	214	-	433935 337634
202	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7SW (SE)	215	-	433685 336702

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
203	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A11NE (NE)	216	-	433963 337616
203	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A11NE (NE)	222	-	433968 337619
204	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NW (W)	216	-	433002 336927
205	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6SE (SW)	217	-	433210 336458
206	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A11NE (NE)	218	-	433833 337698
207	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NE (SE)	218	-	433818 336879
207	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A7NE (SE)	219	-	433814 336876
207	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A7NE (SE)	220	-	433820 336879
207	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A7NE (SE)	222	-	433818 336875
208	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6NW (W)	221	-	432951 336886
208	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	223	-	432955 336893
208	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6NW (W)	223	-	432952 336890
208	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6NW (W)	224	-	432948 336887
208	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NW (W)	225	-	432950 336890
208	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	226	-	432953 336894
209	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A6SW (SW)	221	-	432838 336659
209	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6SW (SW)	222	-	432837 336667
209	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A6SW (SW)	223	-	432836 336663
209	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6SW (SW)	225	-	432834 336660
210	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A6NW (W)	222	-	433067 337011

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
210	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6NW (W)	226	-	433062 337004
211	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A7NE (SE)	223	-	433800 336859
212	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6SW (SW)	223	-	432989 336450
213	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A6SE (S)	223	-	433403 336602
213	**Motion Map** Average Velocity Gradient (mmyear): -0.8	A6SE (S)	225	-	433401 336598
214	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6SE (SW)	223	-	433243 336475
214	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6SE (S)	226	-	433247 336474
215	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NW (W)	224	-	433063 336999
216	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7SW (SE)	224	-	433698 336699
216	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7SW (SE)	225	-	433699 336699
217	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A6SW (SW)	224	-	433088 336420
218	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A10SE (NW)	226	-	433370 337256
218	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A10SE (NW)	230	-	433372 337260
219	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7SW (S)	227	-	433589 336658
220	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A11NE (NE)	228	-	434059 337521
221	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6SW (SW)	229	-	433058 336419
221	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6SW (SW)	233	-	433053 336416
222	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A7SW (SE)	231	-	433653 336668
222	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7SW (SE)	237	-	433656 336663
223	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A11NE (NE)	231	-	434072 337494

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
223	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A11NE (NE)	232	-	434072 337498
224	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A11NE (NE)	231	-	433855 337705
224	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A11NE (NE)	231	-	433852 337705
224	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A11NE (NE)	235	-	433851 337710
224	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A11NE (NE)	236	-	433856 337709
225	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A6NW (W)	233	-	433027 336975
225	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6NW (W)	235	-	433029 336978
225	**Motion Map** Average Velocity Gradient (mmyear): 0.9	A6NW (W)	239	-	433020 336976
226	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A11NE (NE)	234	-	434009 337601
227	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6SW (SW)	238	-	432834 336603
227	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6SW (SW)	243	-	432828 336604
228	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A7SW (S)	239	-	433613 336649
229	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6SE (S)	239	-	433331 336528
230	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7NE (SE)	240	-	433803 336818
230	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A7NE (SE)	243	-	433807 336821
230	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7NE (SE)	246	-	433810 336820
231	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A7NE (SE)	240	-	433857 336883
231	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A7NE (SE)	240	-	433853 336879
232	**Motion Map** Average Velocity Gradient (mmyear): 1.4	A11SE (NE)	241	-	434076 337346
232	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A11SE (NE)	241	-	434075 337343

Motion Map Data (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
232	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A11SE (NE)	241	-	434074 337339
232	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A11SE (NE)	244	-	434077 337342
232	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A11SE (NE)	244	-	434076 337338
233	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A10SE (NW)	244	-	433375 337275
234	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A11NE (NE)	246	-	434055 337566
234	**Motion Map** Average Velocity Gradient (mmyear): -0.3	A11NE (NE)	246	-	434056 337562
235	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6SW (SW)	246	-	432894 336500
236	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6SW (SW)	246	-	432983 336427
237	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A7SW (S)	248	-	433634 336644
238	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A7NE (SE)	249	-	433844 336862
239	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A7SW (S)	249	-	433534 336638
240	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6SW (SW)	249	-	432826 336592

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	SK3236	1955
Ordnance Survey Plan	SK3237	1969
Ordnance Survey Plan	SK3237	1969
Ordnance Survey Plan	SK3337	1969
Ordnance Survey Plan	SK3337	1969
Ordnance Survey Plan	SK3337	1969
Ordnance Survey Plan	SK3337	1969

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Derbyshire	049_NE	1887
Derbyshire	049_SE	1887
Derbyshire	050_NW	1887
Derbyshire	050_SW	1887
Derbyshire	049_NE	1901
Derbyshire	049_SE	1901
Derbyshire	050_NW	1901
Derbyshire	050_SW	1901
Derbyshire	049_NE	1919
Derbyshire	049_SE	1919
Derbyshire	050_NW	1919
Derbyshire	050_SW	1919
Derbyshire	049_NE	1938
Derbyshire	049_SE	1938
Derbyshire	050_NW	1938
Derbyshire	050_SW	1938
Ordnance Survey Plan	SK33NW	1955
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	SK33NW	1992

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2014	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	December 2013	As notified
Man Made Mining Cavities Peter Brett Associates	October 2013	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	October 2013	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
Historical Land Use Information (1:2,500)	**Version**	**Update Cycle**
Subterranean Features Landmark Information Group Limited	April 2014	Bi-Annually
Ground Stability Data (1:50,000)	**Version**	**Update Cycle**
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Subsidence Insurance Claims SP Property Services	August 2014	Quarterly
Subsidence Investigations CET Structures Ltd	August 2014	Quarterly

Motion Map Data (1:2,500)	Version	Update Cycle
Motion Map		
Nigel Press Associates - Hampshire	February 2011	As notified
Nigel Press Associates - Cambridge	January 2011	As notified
Nigel Press Associates - Ipswich	January 2011	As notified
Nigel Press Associates - Norwich	January 2011	As notified
Nigel Press Associates - Peterborough	January 2011	As notified
Nigel Press Associates - Barnstaple	July 2010	As notified
Nigel Press Associates - Derbyshire	July 2010	As notified
Nigel Press Associates - Humberside	July 2010	As notified
Nigel Press Associates - Kent	July 2010	As notified
Nigel Press Associates - Lincolnshire	July 2010	As notified
Nigel Press Associates - Nottinghamshire	July 2010	As notified
Nigel Press Associates - Birmingham	May 2009	As notified
Nigel Press Associates - Bournemouth	May 2009	As notified
Nigel Press Associates - Brighton	May 2009	As notified
Nigel Press Associates - Bristol	May 2009	As notified
Nigel Press Associates - Cardiff	May 2009	As notified
Nigel Press Associates - Central London	May 2009	As notified
Nigel Press Associates - Cheltenahm	May 2009	As notified
Nigel Press Associates - Coventry	May 2009	As notified
Nigel Press Associates - Crawley	May 2009	As notified
Nigel Press Associates - Edinburgh	May 2009	As notified
Nigel Press Associates - Exeter	May 2009	As notified
Nigel Press Associates - Glasgow	May 2009	As notified
Nigel Press Associates - Isle of Wight	May 2009	As notified
Nigel Press Associates - Leeds	May 2009	As notified
Nigel Press Associates - Leicester	May 2009	As notified
Nigel Press Associates - Liverpool	May 2009	As notified
Nigel Press Associates - Manchester	May 2009	As notified
Nigel Press Associates - Milton Keynes	May 2009	As notified
Nigel Press Associates - Newcastle	May 2009	As notified
Nigel Press Associates - Northwich	May 2009	As notified
Nigel Press Associates - Nottingham	May 2009	As notified
Nigel Press Associates - Oxford	May 2009	As notified
Nigel Press Associates - Plymouth	May 2009	As notified
Nigel Press Associates - Portsmouth	May 2009	As notified
Nigel Press Associates - Preston	May 2009	As notified
Nigel Press Associates - Reading	May 2009	As notified
Nigel Press Associates - Sheffield	May 2009	As notified
Nigel Press Associates - Stoke	May 2009	As notified
Nigel Press Associates - Swindon	May 2009	As notified
Nigel Press Associates - Tonbridge	May 2009	As notified
Nigel Press Associates - North London	November 2008	As notified
Nigel Press Associates - Head Office	September 2008	As notified

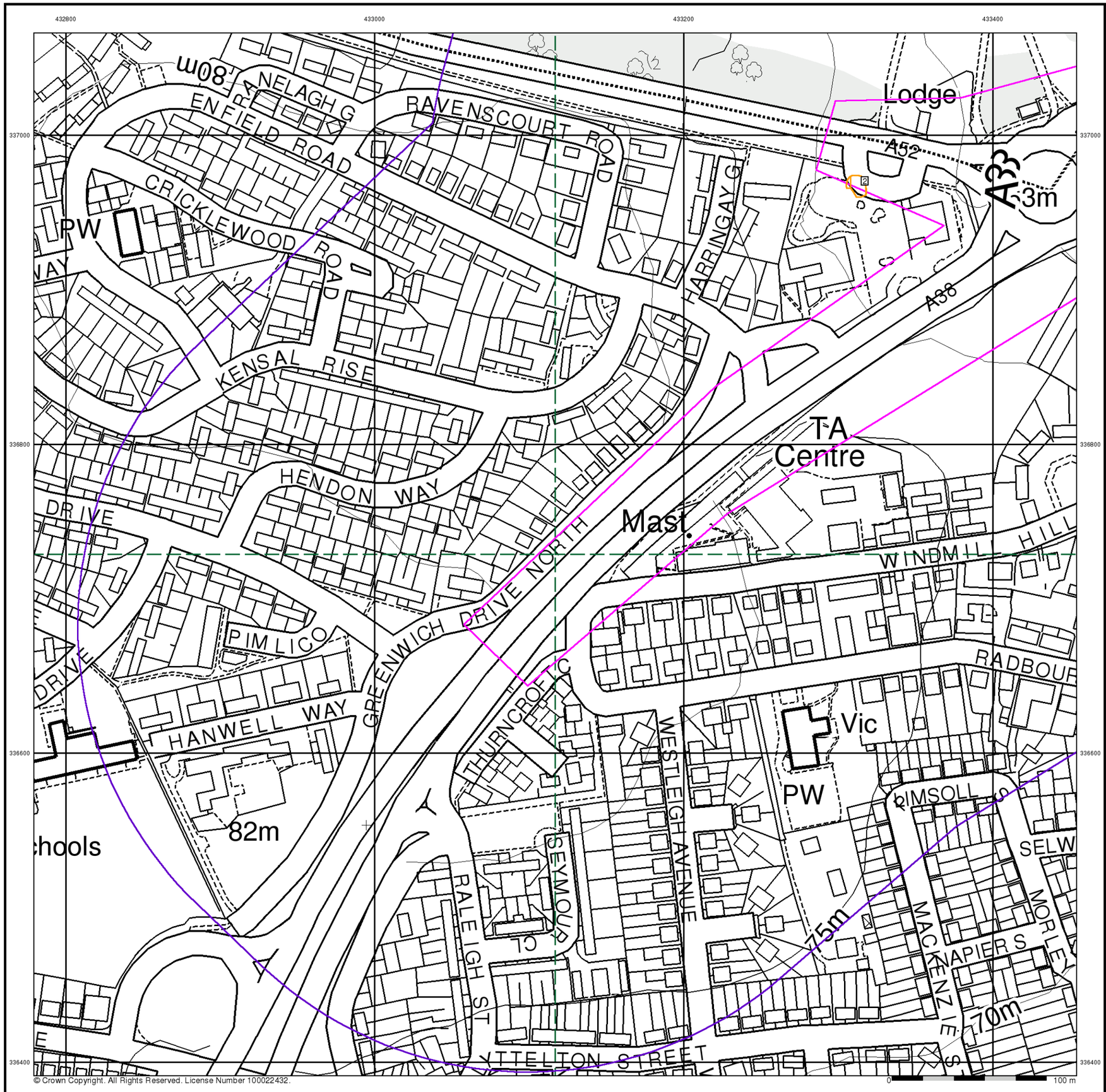
Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Ordnance Survey Licensed Partner
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	THE COAL AUTHORITY
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett
Wardell Armstrong	wardell armstrong your earth our world
Johnson Poole & Bloomer	JPB

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



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Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

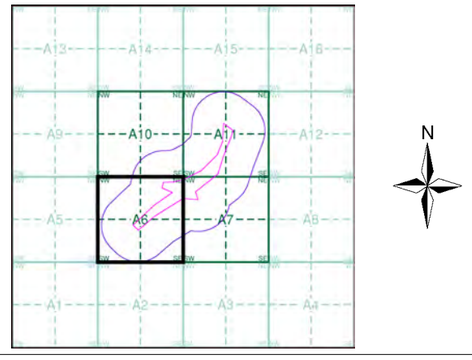
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

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Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▦
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A6



Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

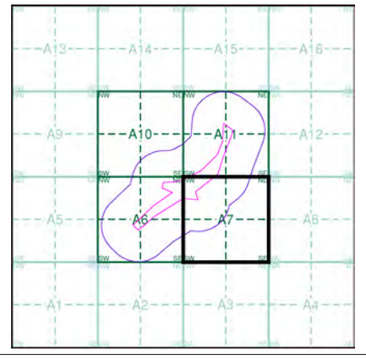
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▦
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A7



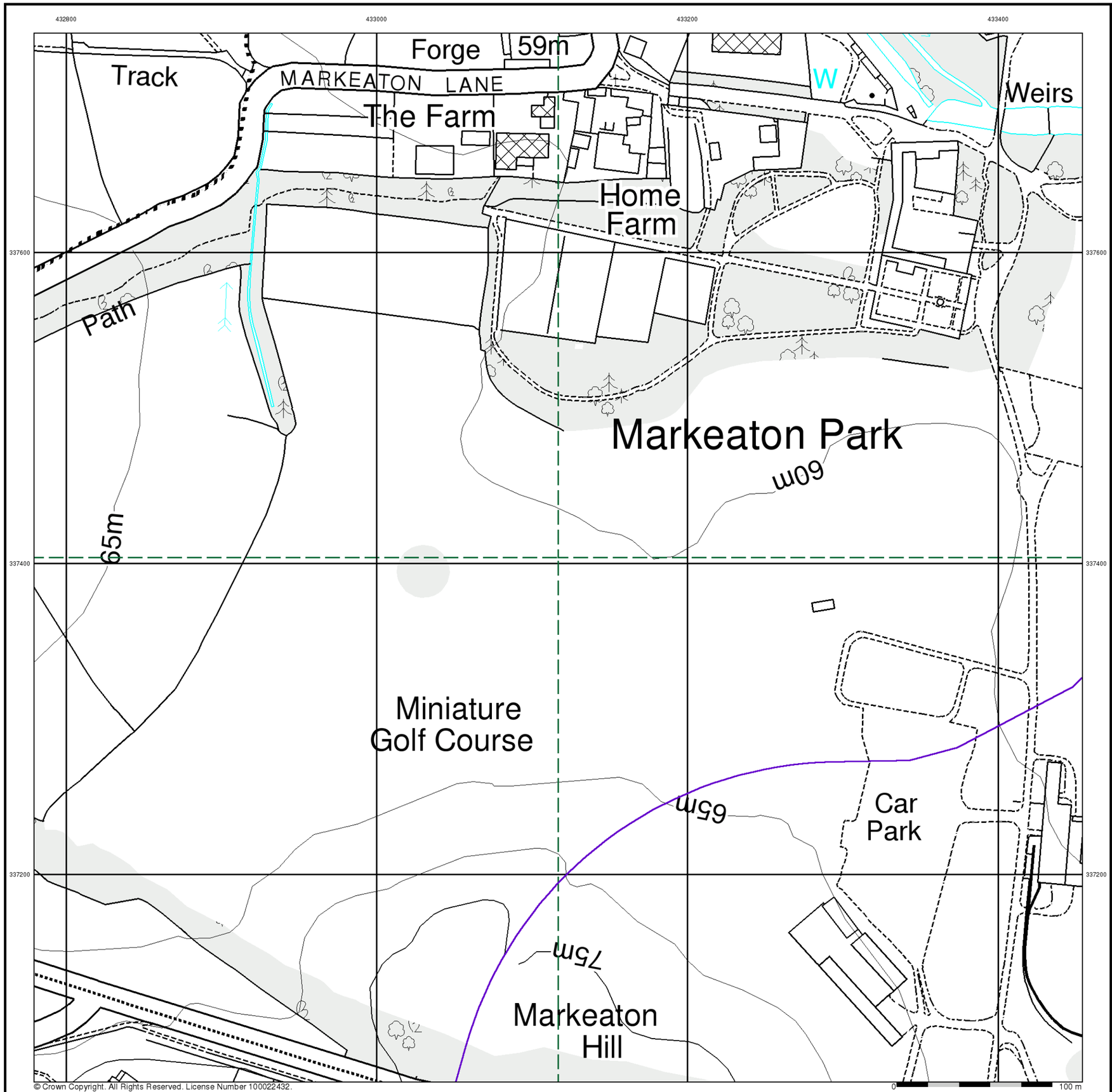
Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
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Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

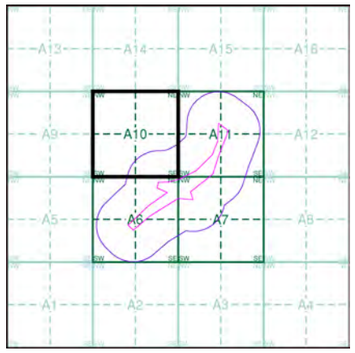
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

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Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A10



Order Details

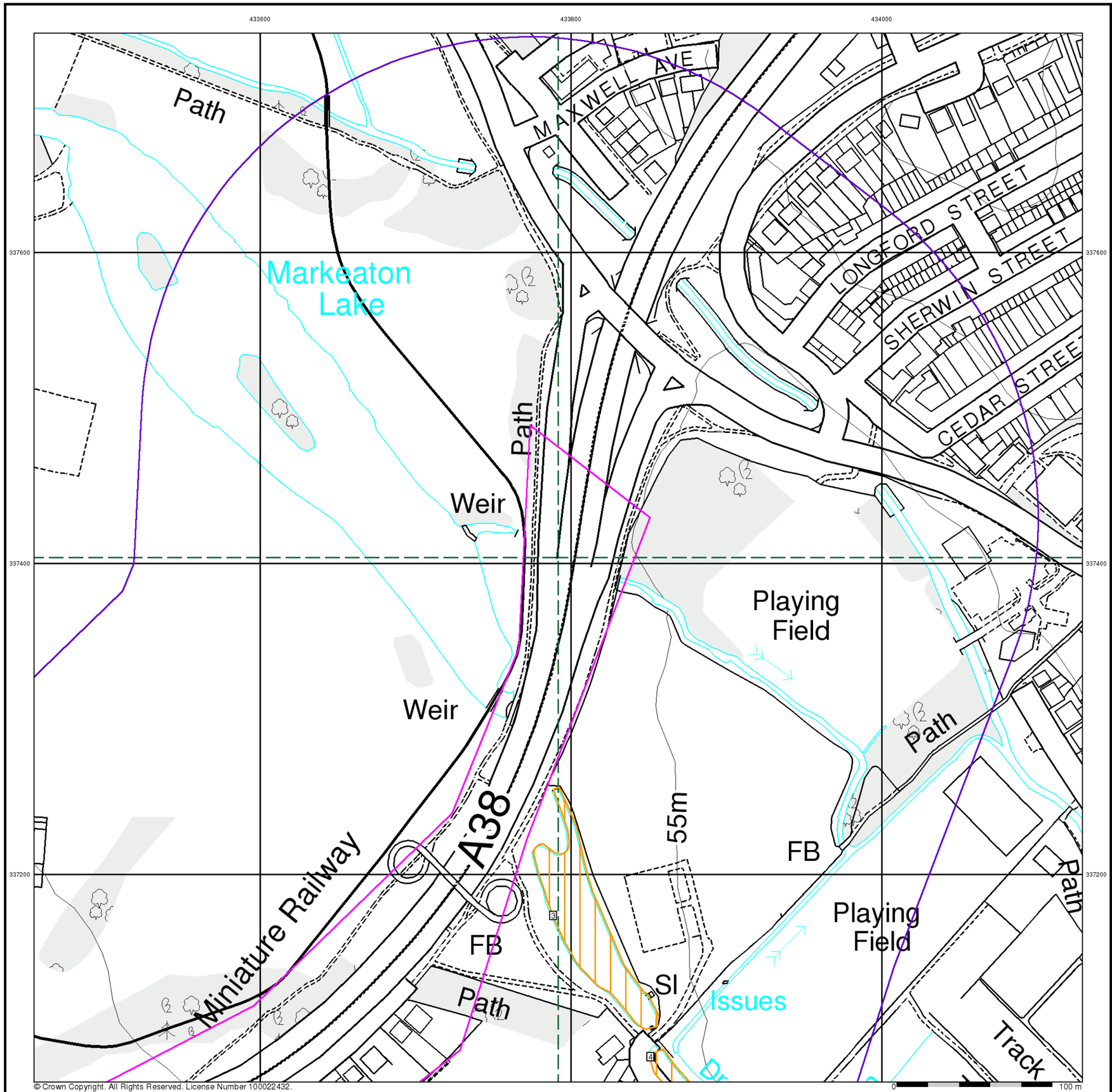
Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

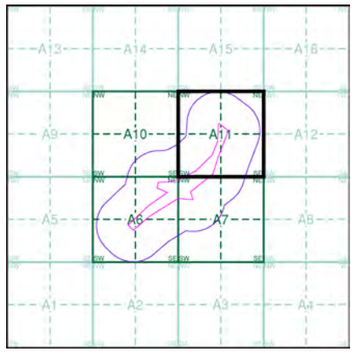
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A11



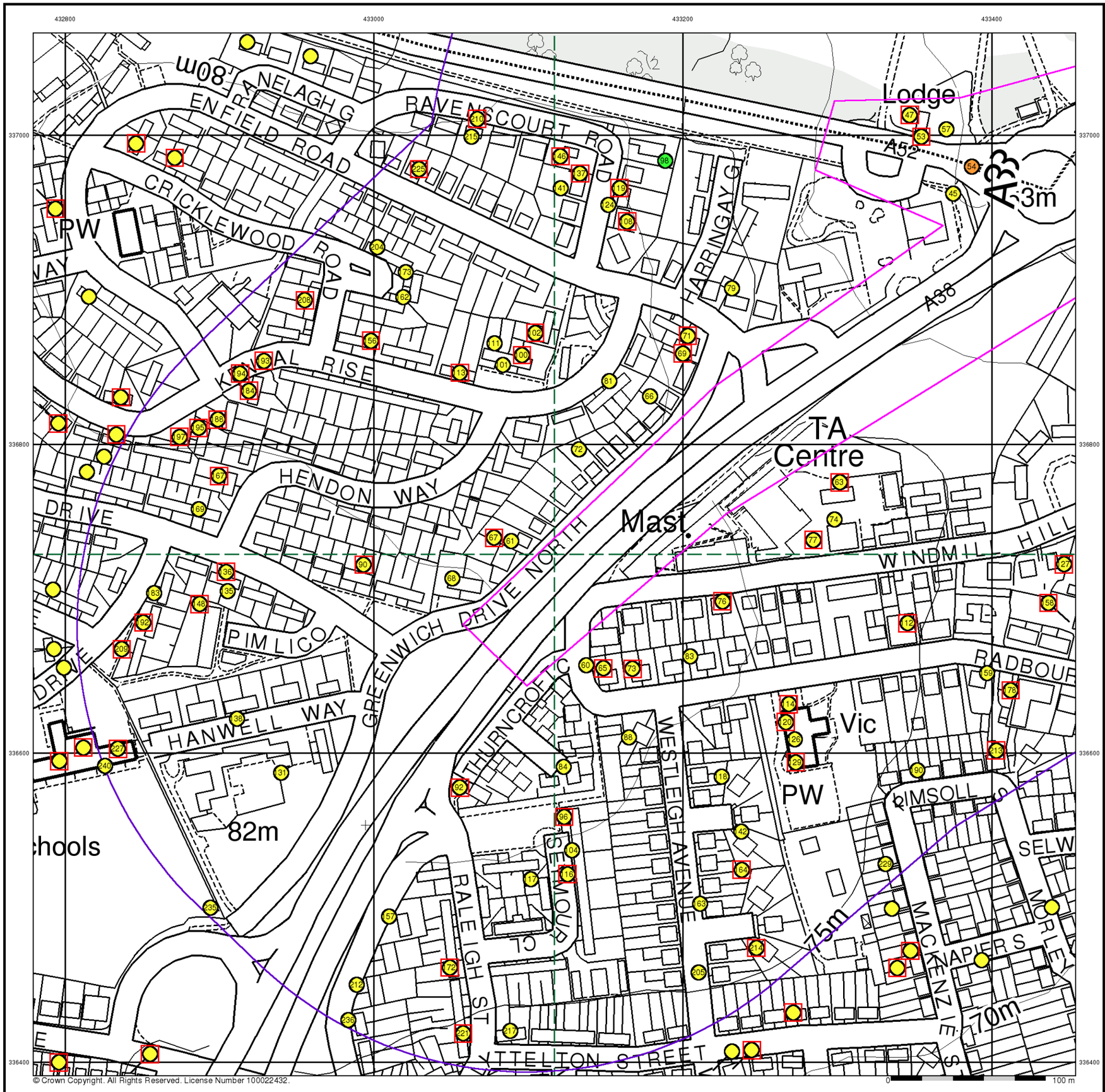
Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
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Motion Map Data (1:2,500)

General

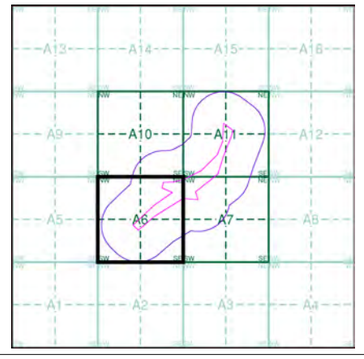
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A6



Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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Motion Map Data (1:2,500)

General

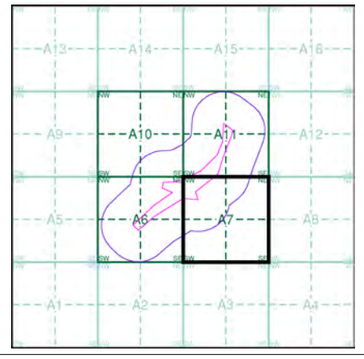
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A7



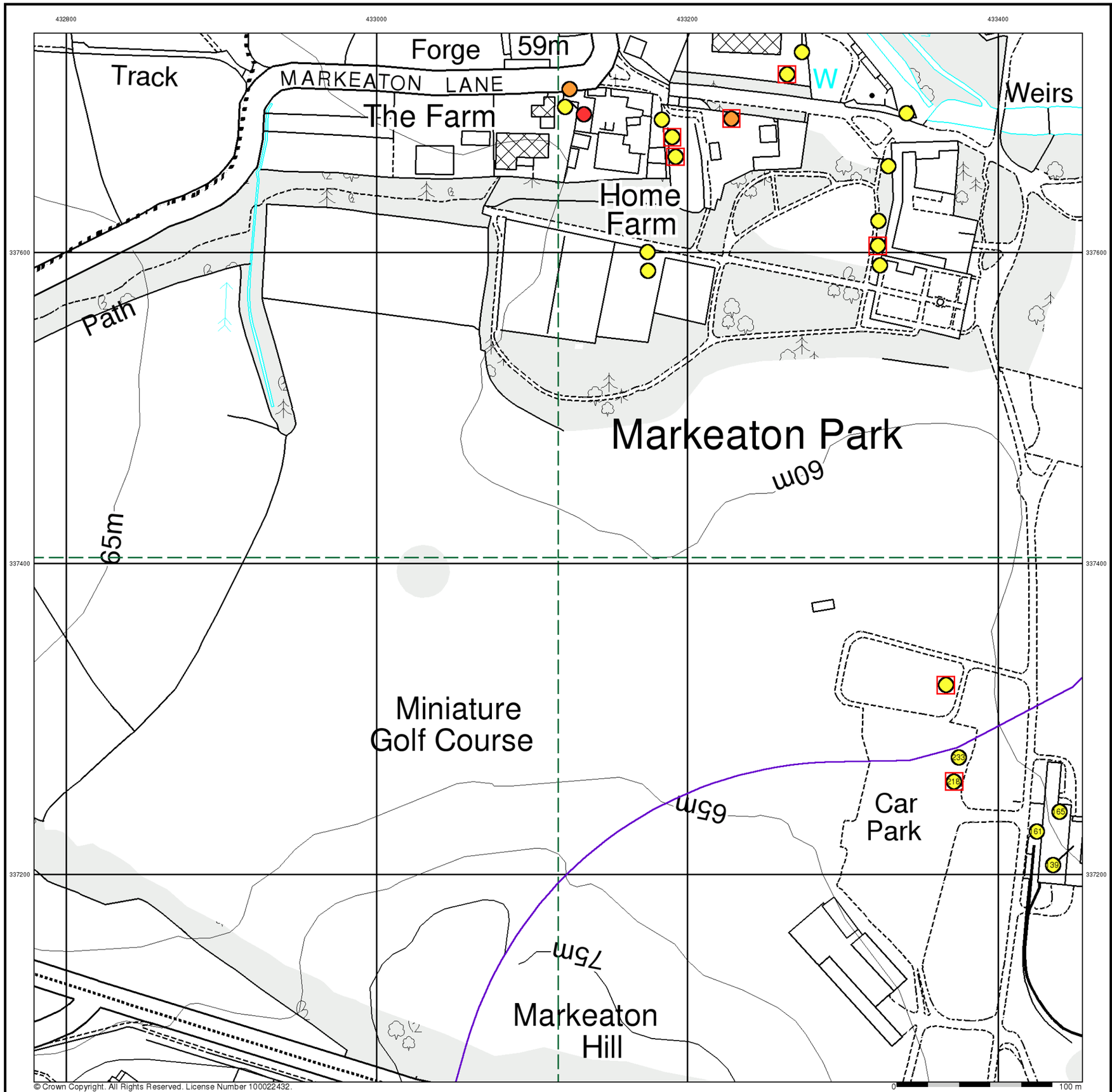
Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
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Motion Map Data (1:2,500)

General

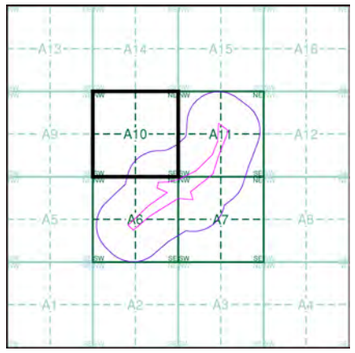
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A10



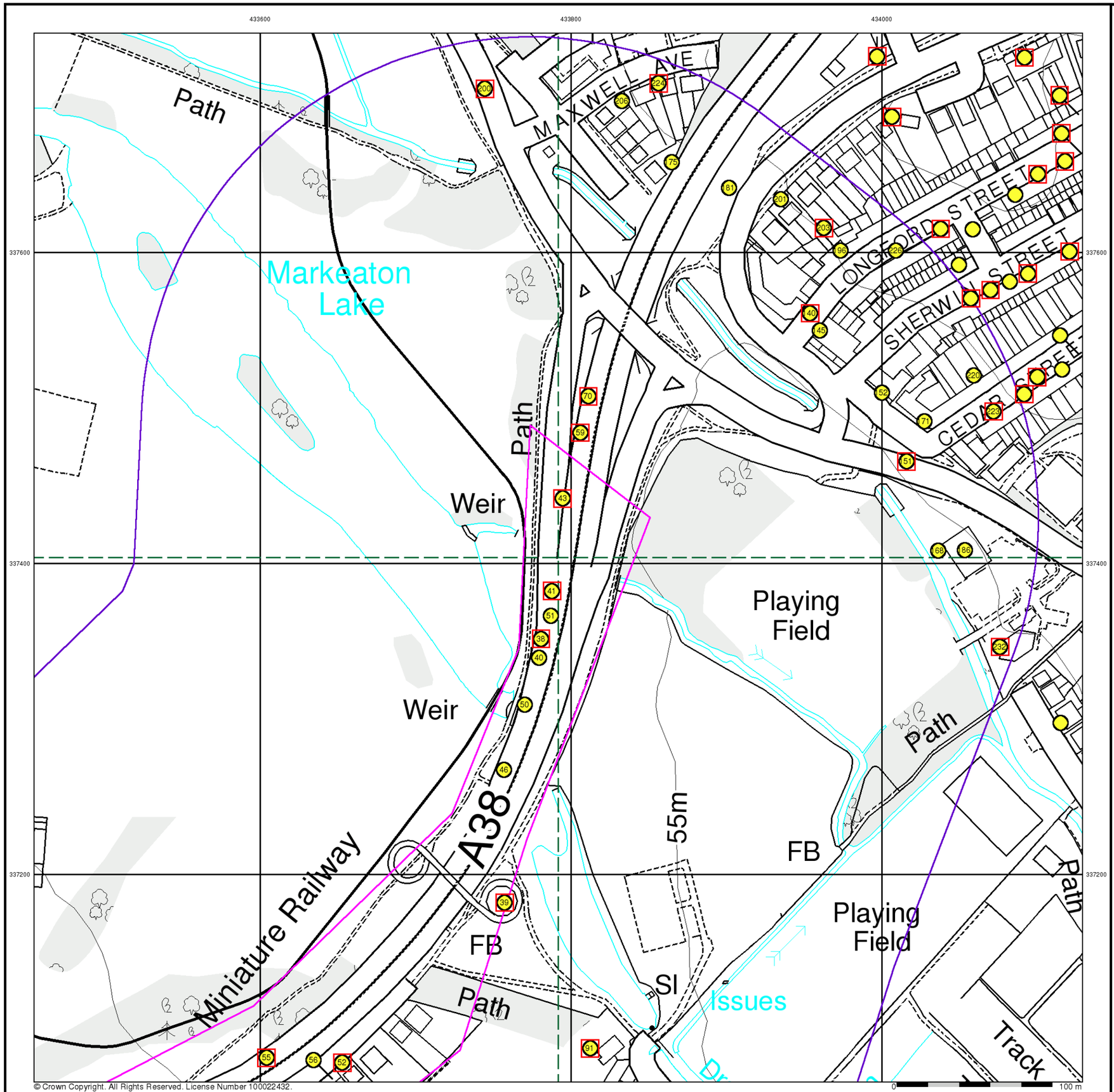
Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Motion Map Data (1:2,500)

General

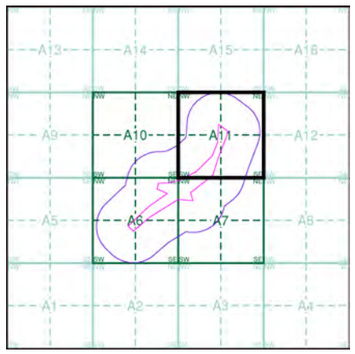
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

Upward Movement > 3.5mm per year	
Upward Movement 1.5mm to 3.5mm per year	
Stable 1.5mm to -1.5mm per year	
Downward Movement -1.5mm to -3.5mm per year	
Downward Movement > -3.5mm per year	

Mining and Ground Stability - Segment A11



Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

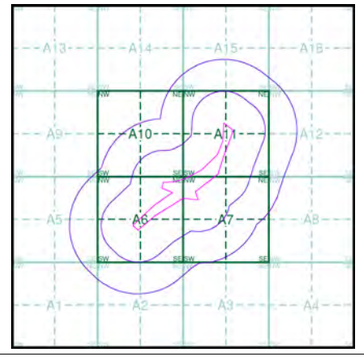
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

Envirocheck®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:10,560	1885 - 1887	3
Derbyshire	1:10,560	1901	4
Derbyshire	1:10,560	1919	5
Derbyshire	1:10,560	1938	6
Ordnance Survey Plan	1:10,000	1955	7
Ordnance Survey Plan	1:10,000	1972	8
Ordnance Survey Plan	1:10,000	1979	9
Derby	1:10,000	1991	10
Ordnance Survey Plan	1:10,000	1992	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2014	14

Historical Map - Slice A



Order Details

Order Number: 60387091_1_1
Customer Ref: 47071637.208APS
National Grid Reference: 433480, 337040
Slice: A
Site Area (Ha): 10.53
Search Buffer (m): 500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Fireproof Building
- Prominent Fireproof Building
- Non-fireproof Building
- Non-fireproof Building (non-dwelling)
- Factory, mill, and flour mill, with chimneys
- Factory, mill, and flour mill, without chimneys
- Power Station, drawn to scale (эл.ст.)
- Hydroelectric Power Station (ГЭС)
- Radio Station, drawn to scale
- Telephone Station, drawn to scale
- Abandoned Open-pit Mine or Quarry
- Open-pit Salt Mine (сол.)
- Pit (–1,5)
- Oil Deposit or Well (нефть)
- Oil Seepage (нефть)
- Tailings Pile (+7.0 отвал)
- Fuel Storage Tanks (скл. гор.)
- Natural Gas Tank (газг.)
- Bench Mark (125.4 / 125.1)
- Drill Hole (бур.)
- Burial Mound (+2.0)
- Triangulation Point on Burial Mound (+1.2 67.8)
- Single-track Railroad (Fill, раз., платф., Cut)
- Double-track Railroad and Station Building (Small Bridge, ст., Tunnel, тун., Pipe (Culvert))
- Coniferous Forest (сосна 24 0.30)
- Deciduous Forest (клен 12 0.20)
- Mixed Forest (ель береза 20 0.25)
- Lawns
- Citrus Orchard
- Wet Ground
- Scattered Vegetation

243,8 — Values for prominent elevations

186.0 — Numbers for spot elevations, depth soundings, contour lines, etc.

0,2 — Velocity of the current, width of river bed, depth of river

180/12 180/12 — Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	ъ (–)
Д д (D)	Л л (L)	У у (U)	ы (Y)
Е е (E)	М м (M)	Ф ф (F)	ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Partly Demolished Buildings
- Demolished Buildings
- Built-Up Area with Fireproof Buildings Predominant
- Built-Up Area with Non-Fireproof Buildings Predominant
- Individual Fireproof Building
- Prominent Industrial Building
- Individual Dwelling, Fireproof
- Ruins of an Individual Dwelling
- Factory or Mill Chimney
- Factory or Mill with Chimney (бум.)
- Factory or Mill without Chimney (скип.)
- Mine or Open Pit Mine (медн.)
- Operating Shaft or Mine (кам. уг.)
- Non-Operating Shaft or Mine
- Salt Mine (сол.)
- Tailings Pile
- Pit (–1.7)
- Stone Quarry (гл. пес. кам.)
- Gas Pump or Service Station
- Fuel Storage or Natural Gas Tank
- Oil or Natural Gas Derrick
- Small Hydroelectric Power Station
- Power Station
- Transformer Station (б.тр.)
- Cemetery
- Burial Mound (height in metres) (+8.1)
- Triangulation Point on Burial Mound (95.7)
- Triangulation Point (92.6)
- Bench Mark (52.1)
- Bench Mark (monumented) (71.1)
- Telegraph Office
- Telephone Station
- Radio Station
- Radio Tower
- Airfield or Seaplane Base
- Landing Strip
- Main Highway (Cut, Fill, Km Post, Plantings, Telegraph/Telephone Lines)
- Highway under Construction
- Improved Dirt Road (former truck road) (Width of Road, Steep Grade)
- Double-track Railroad with First Class Station (Small Bridge, ст., Pipe (Culvert), Tunnel)
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- River or Ditch with Embankment (+2.4)
- Direction and velocity of current (Water Gauge, 0.2, 135.1, Water Level Mark)
- Well (К. 125.0 гл.8м (г.-сол.))
- Water Reservoir or Rain Water Pit (вдхр.)
- Spring (156.2 кл.)
- Isobath with value (20)
- Heavy (Index) Contour Line
- Contour Line and Value (20)
- Half Contour Line
- Spot Elevation Value (347.1)
- Coniferous
- Deciduous
- Mixed
- Scrub

Key to Numbers on Mapping

SK33NW_Derby

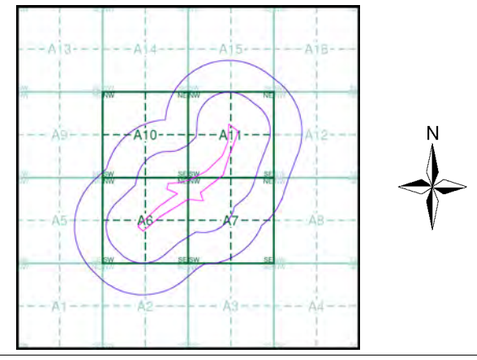
No.	Description
41	Police Station/Headquarters
72	Telephone Exchange
78	Factory (Textiles)

Envirocheck®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:10,560	1885 - 1887	3
Derbyshire	1:10,560	1901	4
Derbyshire	1:10,560	1919	5
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Ordnance Survey Plan	1:10,000	1979	9
Derby	1:10,000	1991	10
Ordnance Survey Plan	1:10,000	1992	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2014	14

Russian Map - Slice A



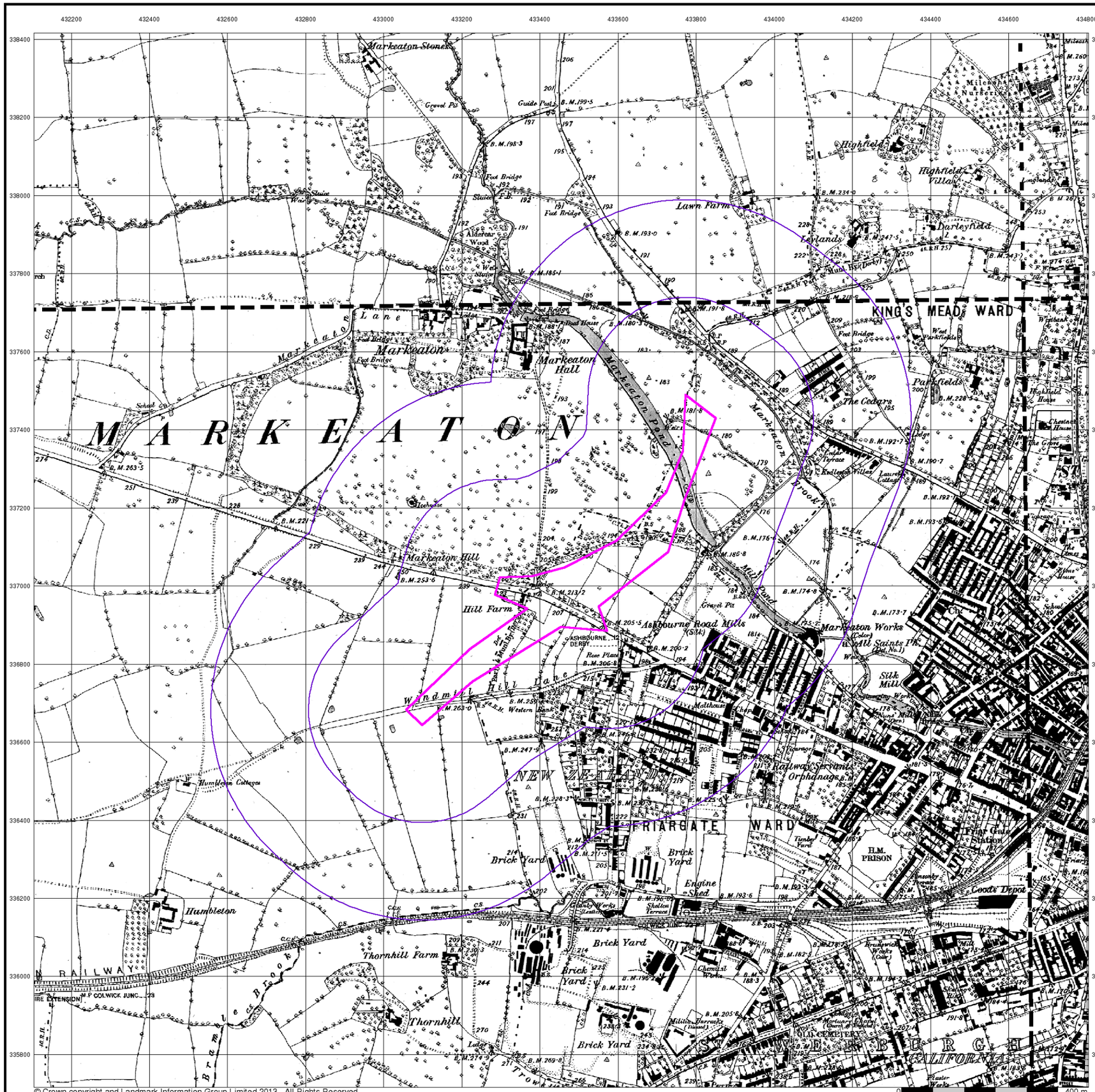
Order Details

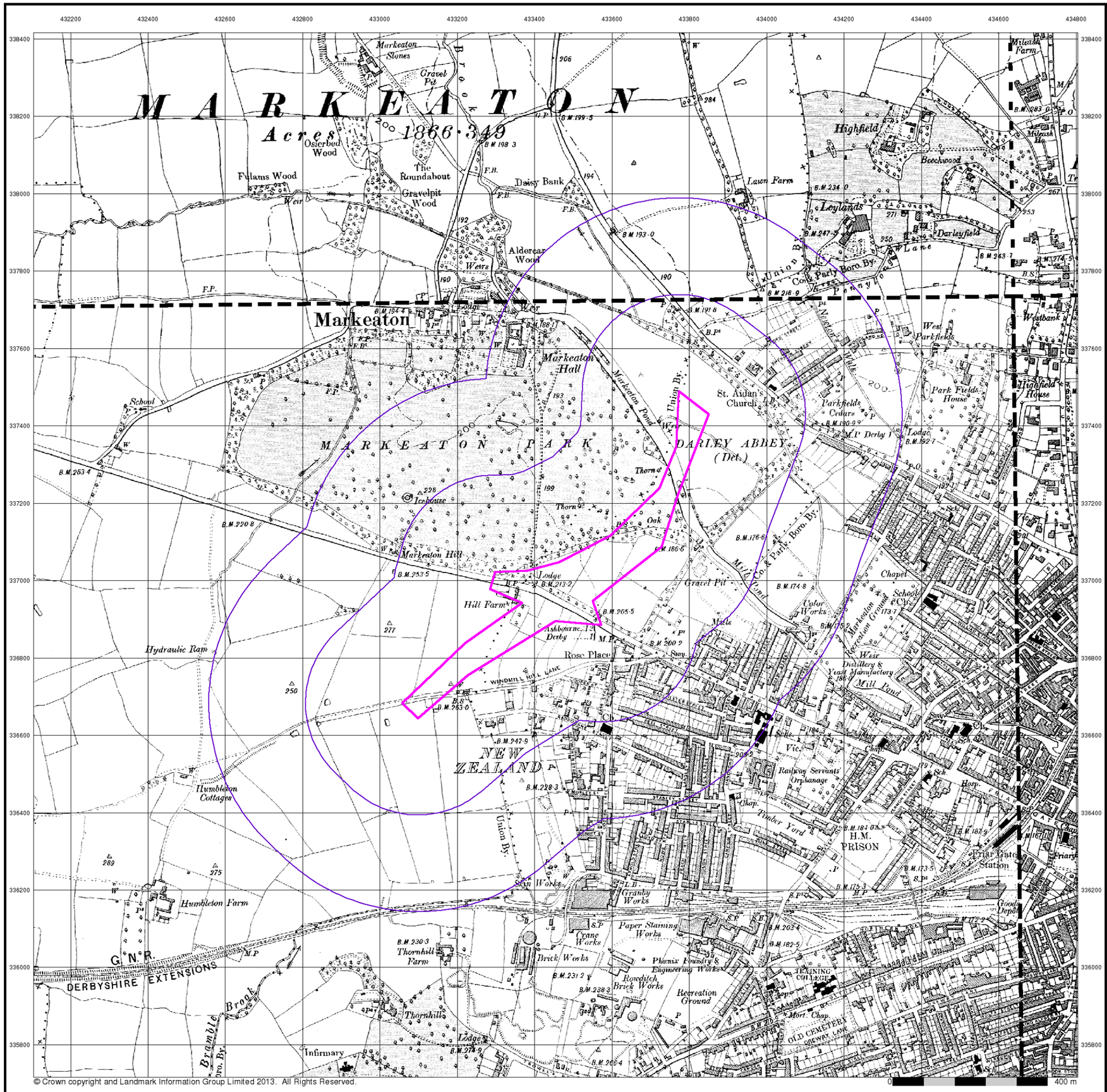
Order Number: 60387091_1_1
Customer Ref: 47071637.208APS
National Grid Reference: 433480, 337040
Slice: A
Site Area (Ha): 10.53
Search Buffer (m): 500

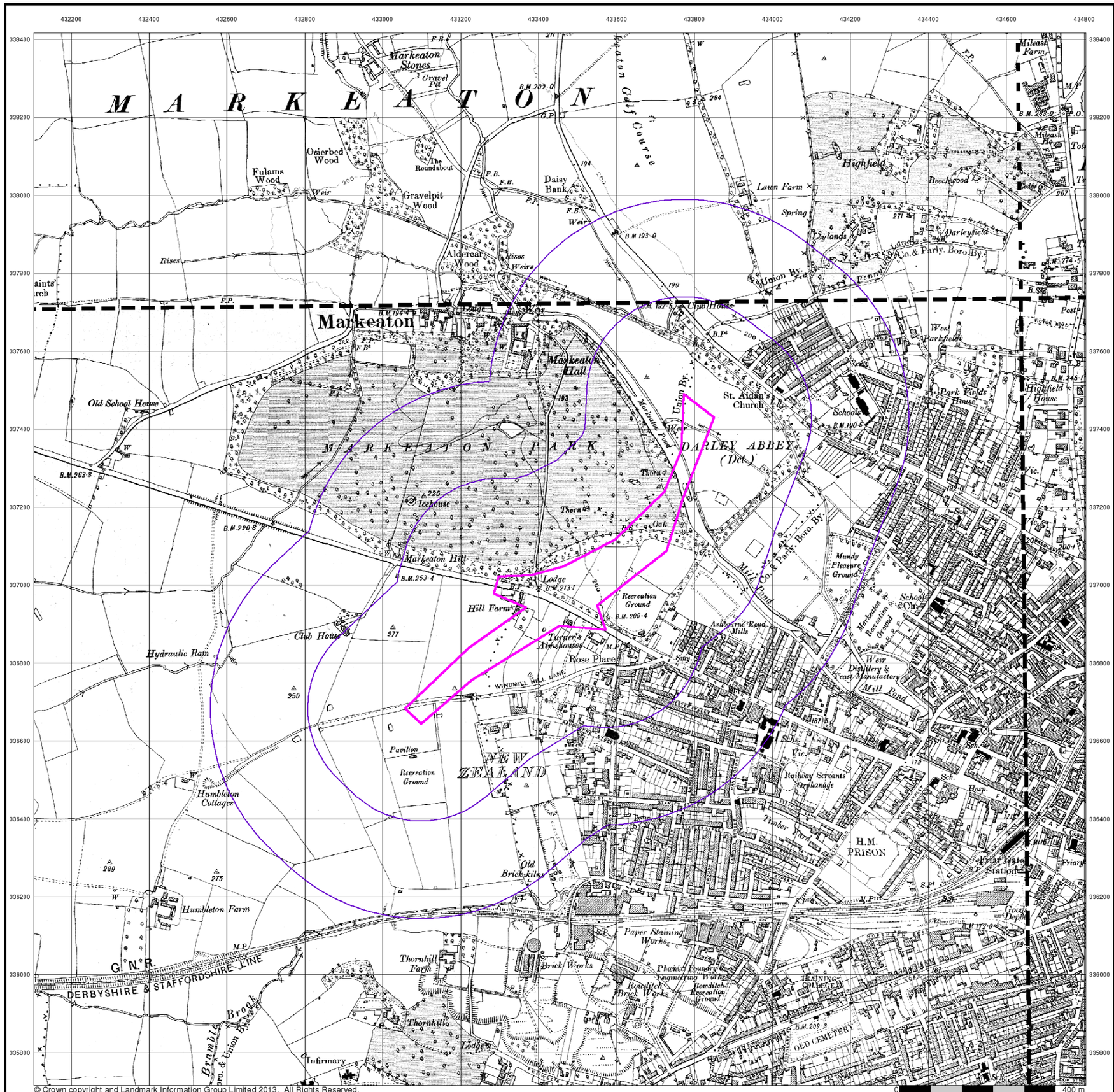
Site Details

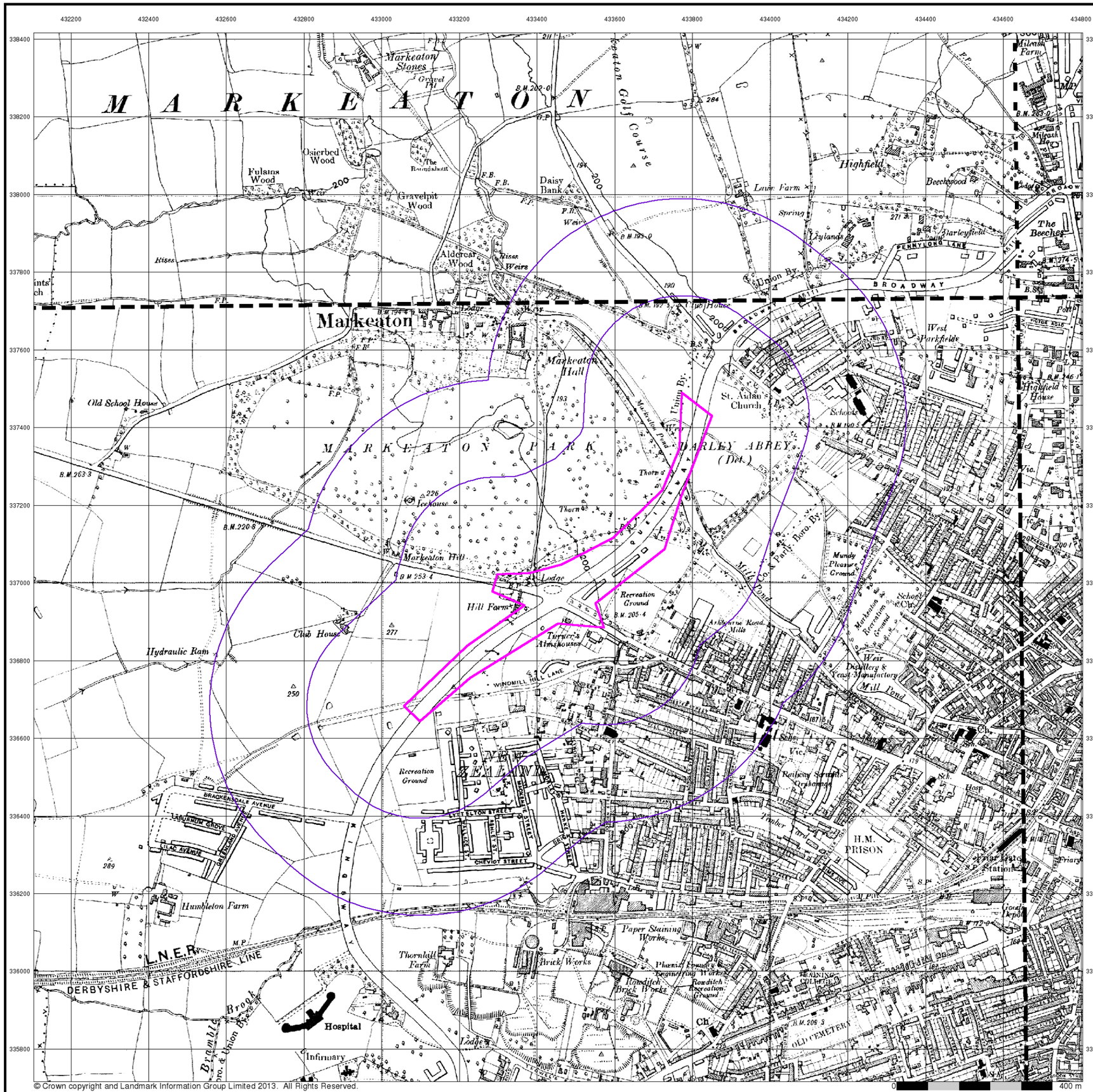
Site at, Derby, City of Derby

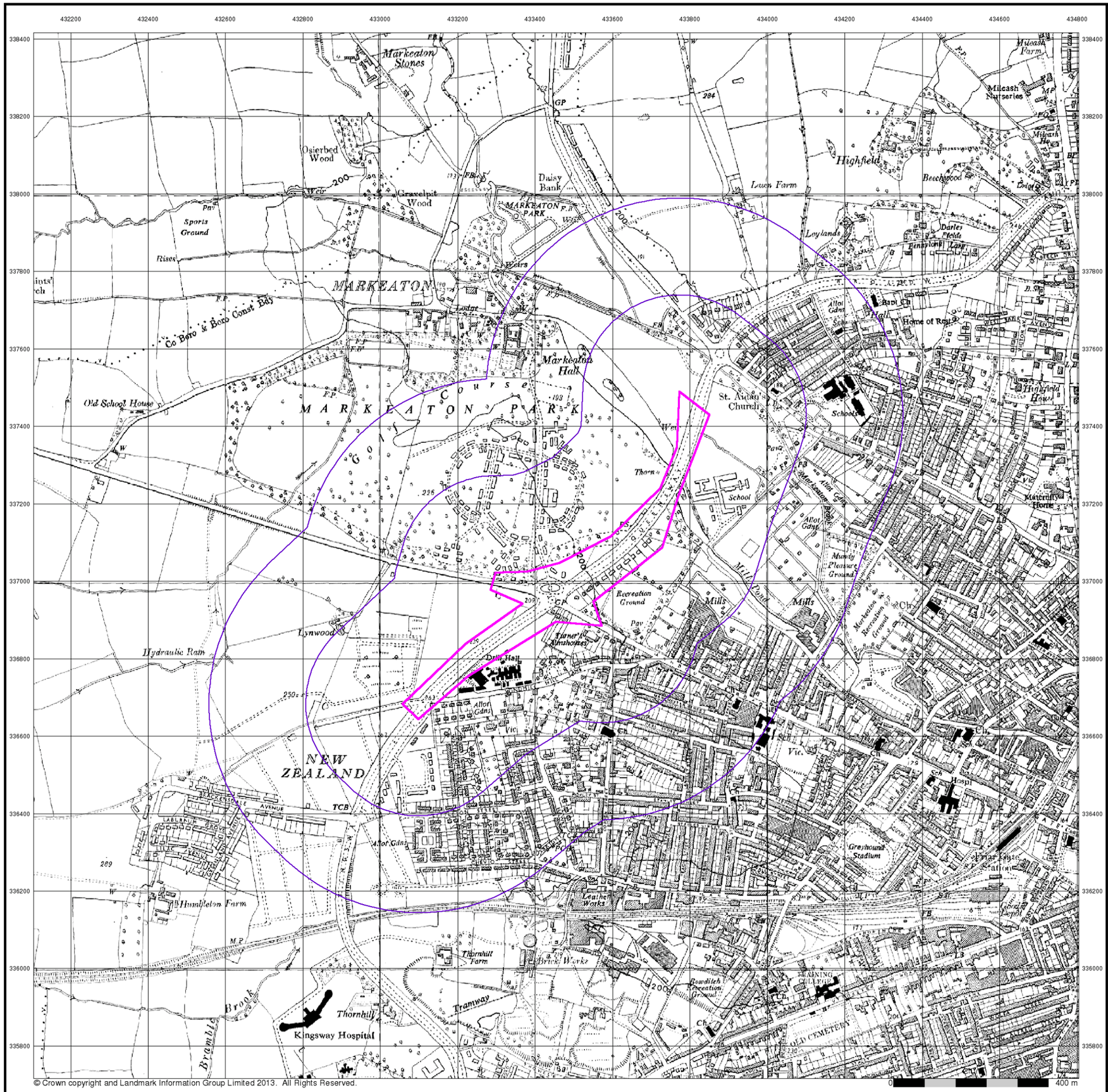
Landmark Information Group
Tel: 0844 844 9952
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Web: www.envirocheck.co.uk

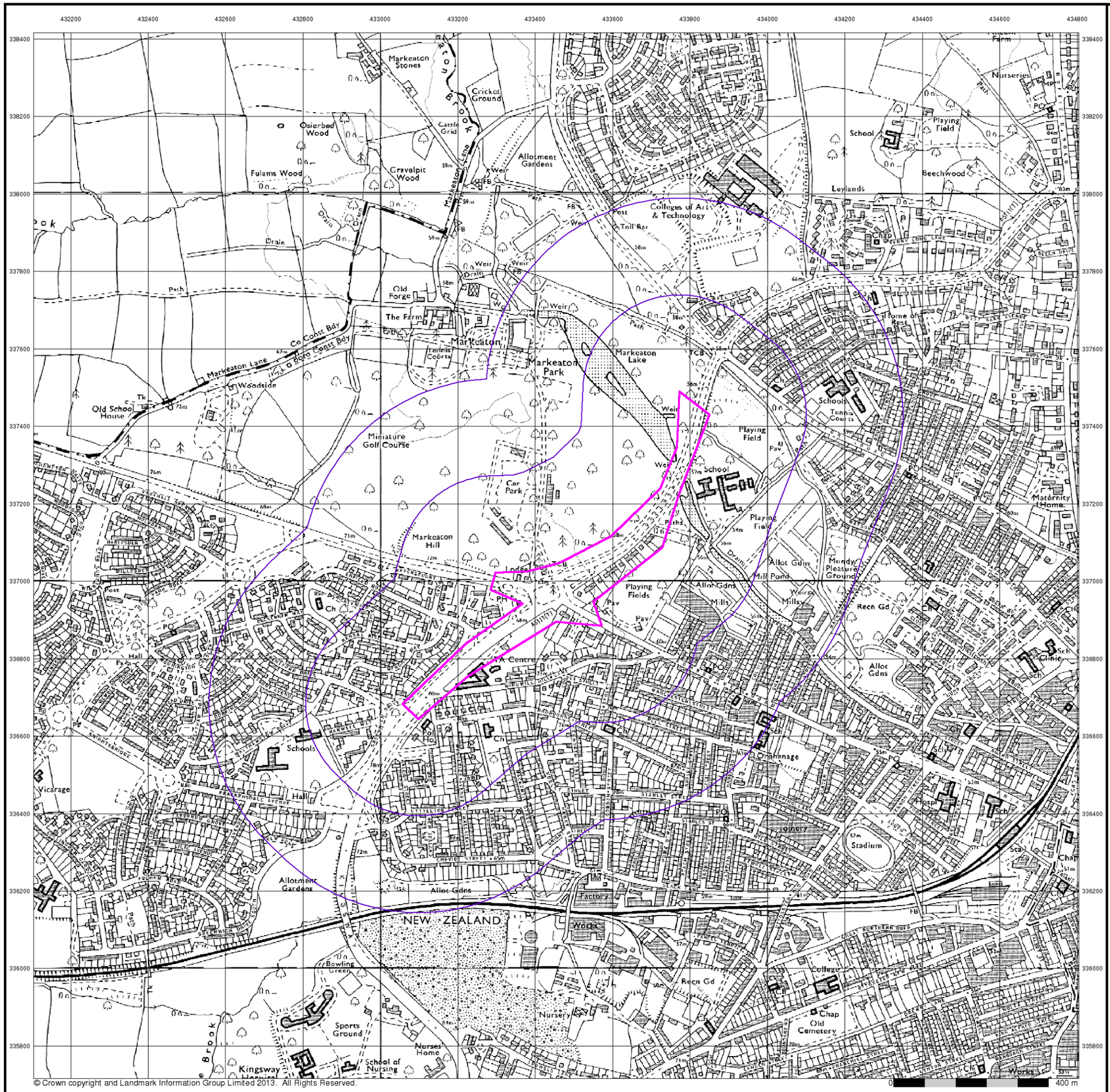

MARKEATON
KING'S MEAD WARD
NEW ZEALAND
FRIARGATE WARD
Markeaton Stones
Markeaton Lane
Markeaton Hall
Markeaton Pond
Markeaton Brook
Markeaton Hill
Hill Farm
Lawn Farm
Highfield
Highfield Villas
Darleyfield
Leylands
Parkfields
The Cedars
Highfield House
Ashbourne Road Mills
Markeaton Works
All Saints Th.
Stik Mill
Railway Servants' Orphanage
Brick Yard
Engine Shed
Coach Depot
H.M. PRISON
Friar Gate Station
Humbleton
Humbleton Cottages
Thornhill Farm
Thornhill
Brick Yard
OLD CEMETERY
CALIFORNIA
Windmill Hill Lane
Ashbourne Road
Friar Gate
Wyndham Street
Siddals Road
Normanton Road
Midland Railway
Colwick Junction
Trent Extension
Gravel Pit
Guide Post
Foot Bridge
Sluice
Weir
Aldercar Wood
Mount Hyr (Derby)
Mileash Nursery
Wirksworth
Chestnut House
The Grove
Cedar Terrace
Laurel Cottage
Kedleston Villas
Chemical Works
Brunswick Works
Timber Yard
Masonry
Mortuary
Chapel
Lodge
Gas Works
Sta
Tramway
Tramway Bridge
Brook
Pond
Reservoir
Western Bank
Malthouse
Orphanage
Terrace
Villas
Cottages
Nursery
Yard
Shed
Works
Depot
Prison
Station
Cemetery
Chapel
Mortuary
Lodge
Gas Works
Chemical Works
Brunswick Works
Timber Yard
Masonry
Railway
Extension
Junction
Bridge
Pond
Reservoir
Brook
Tramway
Lane
Hill
Street
Road
Park
Gravel Pit
Guide Post
Foot Bridge
Sluice
Weir
Aldercar Wood
Mount Hyr (Derby)
Mileash Nursery
Wirksworth
Chestnut House
The Grove
Cedar Terrace
Laurel Cottage
Kedleston Villas
Chemical Works
Brunswick Works
Timber Yard
Masonry
Mortuary
Chapel
Lodge
Gas Works
Sta
Tramway
Tramway Bridge
Brook
Pond
Reservoir
Western Bank
Malthouse
Orphanage
Terrace
Villas
Cottages
Nursery
Yard
Shed
Works
Depot
Prison
Station
Cemetery
Chapel
Mortuary
Lodge
Gas Works
Chemical Works
Brunswick Works
Timber Yard
Masonry
Railway
Extension
Junction
Bridge
Pond
Reservoir
Brook
Tramway
Lane
Hill
Street
Road
Park
B.M.198·3
B.M.199·5
B.M.234·0
B.M.247·5
B.M.243·7
B.M.185·1
B.M.193·0
B.M.191·8
B.M.180·1
B.M.181·8
B.M.192·7
B.M.190·7
B.M.192·
B.M.193·5
B.M.263·5
B.M.221·
B.M.253·6
B.M.213·2
B.M.205·5
B.M.200·2
B.M.206·8
B.M.174·8
B.M.173·7
B.M.263·0
B.M.247·9
B.M.228·3
B.M.225·6
B.M.211·5
B.M.212·2
B.M.193·6
B.M.196·2
B.M.231·2
B.M.205·6
B.M.274·9
B.M.269·8
B.M.176·1
B.M.185·8
B.M.188·3
B.M.162·1
B.M.194·
B.M.170·
B.M.183·8
B.M.191·
B.M.188·
B.M.186·
B.M.187·
B.M.189·
B.M.199·
B.M.203·
B.M.207·
B.M.209·
B.M.211·
B.M.214·
B.M.216·
B.M.225·
B.M.230·
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B.M.243·
B.M.244·
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B.M.303·
B.M.305·
B.M.307·
B.M.309·
B.M.311·
B.M.313·
B.M.315·
B.M.317·
B.M.319·
B.M.321·
B.M.323·


MARKEATON
Acres 200 1866·349
Markeaton
MARKEATON PARK
DARLEY ABBEY (Det.)
NEW ZEALAND
Markeaton Hall
Markeaton Stones
Gravel Pit
Osterbed Wood
The Roundabout
Fulams Wood
Gravelpit Wood
Daisy Bank
Alderear Wood
Lawn Farm
Highfield
Beechwood
Leylands
Darleyfield
Lane
Union By.
Coal Pty Boro. By.
West Parkfields
Westbank
Park Fields House
Highfield House
St. Aidan Church
Parkfields Cedars
Lodge
Markeaton Pond
Icehouse
Oak
Markeaton Hill
Hill Farm
Ashbourne, 12 Derby 11 M.P.
Rose Place
Hydraulic Ram
Humbleton Cottages
Humbleton Farm
Thornhill Farm
Thornhill
Infirmary
Brook
Bramble Brook
Boro. By.
Mill Pond
Color Works
Recreation Ground
Chapel
Vic.
Railway Servants Orphanage
Timber Yard
H.M. PRISON
Friar Gate Station
Goods Depot
Granby Works
Soap Works
Crane Works
Brick Works
Paper Staining Works
Phœnix Foundry & Engineering Works
Rowditch Brick Works
TRAINING COLLEGE
OLD CEMETERY
Mort. Chap.
Gravel Pit
Mills
Distillery & Yeast Manufactory
Co. & Parl. Boro. By.
G.N.R.
DERBYSHIRE EXTENSIONS
WINDMILL HILL LANE
OSMASTON ROAD
Milcash Farm
Milcash Ho.
Weir
Ice House
School
Chapel
Lodge
Hospital
Sch.
Stn.
Sta.
Cl.
Ch.
Tk.
Ho.
Pk.
Cott.
Sta. Yd.
Goods Sta.
Recreation Ground
Mort. Chap.
Old Cemetery
Orchard
Nursery
Tennis Courts
Bowling Green
Cricket Ground
Football Ground
Sewage Works
Gas Works
Timber Yard
Railway Servants Orphanage
Vic.
Chap.
Sch.
Hosp


MARKEATON
MARKEATON PARK
DARLEY ABBEY (Det.)
NEW ZEALAND
Markeaton
Markeaton Hall
Markeaton Stones
Gravel Pit
Osierbed Wood
Fulams Wood
The Roundabout
Gravelpit Wood
Weir
Daisy Bank
Aldercar Wood
Rises
Weirs
Markeaton Golf Course
Lodge
Old School House
Icehouse
Markeaton Hill
Hill Farm
Club House
Hydraulic Ram
Humbleton Cottages
Humbleton Farm
Recreation Ground
Pavilion
Old Brickyard
Thornhill Farm
Thornhills
Infirmary
Bramble Brook
Prov. & Union Brys.
G.N.R.
DERBYSHIRE & STAFFORDSHIRE LINE
WINDMILL HILL LANE
Rose Place
Turner's Almshouses
Ashbourne Road Mills
Weir
Distillery & Yeast Manufactory
Mill Pond
Mundy Pleasure Ground
Markeaton Recreation Ground
Brick Works
Paper Staining Works
Phœnix Foundry & Engineering Works
Rowditch Brick Works
Rowditch Recreation Ground
TRAINING COLLEGE
OLD CEMETERY
H.M. PRISON
Railway Servants Orphanage
Friar Gate Station
Friary
Highfield
Beechwood
Darleyfield
Laurel Farm
Spring
Leylands
Co. & Parly. Boro. By.
Union By.
Union Bys.
Mileash Farm
Mileash Ho.
West Parkfields
Park Fields House
Highfield House
St. Aidan's Church
Schools
Vic.
Sch.
Hosp.
Post
Gas Depot
Gas Ho.
Chain House
Lodge
Lodges
Recreation Ground
Ashbourne Road Mills
Turner's Almshouses
Rose Place
Old Brickyard
Thornhill Farm
Humbleton Farm
Humbleton Cottages
Hydraulic Ram
Club House
Infirmary
Pavilion
Recreation Ground
Markeaton Pond
Markeaton Hill
Old School House
Icehouse
Lodge
Lodges
Weirs
Rises
Weir
Gravel Pit
Markeaton Stones
Osierbed Wood
Fulams Wood
The Roundabout
Gravelpit Wood
Daisy Bank
Aldercar Wood
Markeaton Hall
Markeaton Golf Course
Markeaton Park
Markeaton Hill
Hill Farm
Club House
Hydraulic Ram
Humbleton Cottages
Humbleton Farm


MARKEATON
MARKEATON PARK
Markeaton
Markeaton Stones
Gravel Pit
Osierbed Wood
Fulains Wood
Gravelpit Wood
Aldercar Wood
Daisy Bank
Markeaton Hall
Old School House
Markeaton Hill
Hill Farm
Club House
Hydraulic Ram
Humbleton Farm
Thorntill Farm
Brick Works
Recreation Ground
Turner's Almshouses
Ashbourne Road Mills
Wear Distillery & Yeast Manufactory
Mill Pond
Railway Servants' Orphanage
H.M. PRISON
Derby Station
St. Aidan Church
Schools
Highfield
Beechwood
The Beeches
Highfield House
West Parkfields
Harleyfield
Lynlands
Spring
Union Ho.
Union By.
Markeaton Pond
Thorn
Icehouse
Ledge
Rises
Weirs
Weir
Lodge
Hospital
Infirmary
Paper Staining Works
Rowditch Brick Works
Rowditch Recreation Ground
Mundy Pleasure Ground
Markeaton Recreation Ground
Milltown
Milltown Ho.
Milpark Ho.
Milpark Farm
Lunar Farm
The Roundabout
Golf Course
QUIET LANE
PENNYLONG LANE
BROADWAY
WINDMILL HILL LANE
BRACKENSDALE AVENUE
LABURNUM GROVE
LILAC AVENUE
QUEENSDALE AVENUE
WEST ELTON STREET
CHEVIOT STREET
HUNTER STREET
MARKEATON STREET
BRIGHTON STREET
STANLEY STREET
OLD CEMETERY
L.N.E.R.
DERBYSHIRE & STAFFORDSHIRE LINE
Bramble Brook
Prov. & Union Brs.
B.M. 202·0
B.M. 205·4
B.M. 209·3
B.M. 253·4
B.M. 263·3
B.M. 220·8
B.M. 193·0
B.M. 190·7
B.M. 194·6
B.M. 192·7
B.M. 146·1
B.M. 127·4·5
B.M. 172·0
B.M. 164·7
B.M. 167·8
B.M. 200·1
B.M. 187·8


MARKEATON
MARKEATON PARK
GOLF COURSE
NEW ZEALAND
Markeaton Stones
Osierbed Wood
Gravelpit Wood
Daisy Bank
Sports Ground
Markeaton Hall
Old School House
Co Boro & Boro Const Edy
Lynwood
Hydraulic Ram
Dene Hall
Turner's Almshouses
Humbleton Farm
Thornhill
Kingsway Hospital
Brambly Brook
Tramway
Thornhill Farm
Brick Works
Leather Works
Recreation Ground
Mills
Morleston Recreation Ground
Boardich Recreation Ground
Greyhound Stadium
Gas Depot
Friar Gate Station
St. Aidan's Church
School
Maternity Home
Highfield
Beechwood
Leys Farm
Loyland's
Darley Fields
Pennyland Lane
Home of Rest
Highfield House
Mileash Farm
Mileash Nurseries
Allot Gdns
Vic.
Ch
Hospl
Pav
Rec Gd
Sch
Works
Depot
Stn
TCB
GP
FB
FP
PO
MP
Thorn
Wall
Wks
Rises
Weir
Weirs
Bdge
Cemetery
OLD CEMETERY
Municipal Pleasure Ground
Mileash Meadow
Mileash Plantation
Mileash Cottage
Mileash Lane
Markeaton Park Allot Gdns
Markeaton Recreation Ground
Markeaton Park Rd
Markeaton Brook
Markeaton Lane
Markeaton Crescent
Markeaton Drive
Markeaton Avenue
Markeaton Close
Markeaton Grove
Markeaton Way
Markeaton Park
Markeaton Park Golf Course
Markeaton Park Golf Course Extension
Markeaton Park Golf Course Practice Ground
Markeaton Park Golf Course Practice Ground Extension
Markeaton Park Golf Course Practice Ground Extension 2
Markeaton Park Golf Course Practice Ground Extension 3
Markeaton Park Golf Course Practice Ground Extension 4
Markeaton Park Golf Course Practice Ground Extension 5
Markeaton Park Golf Course Practice Ground Extension 6
Markeaton Park Golf Course Practice Ground Extension



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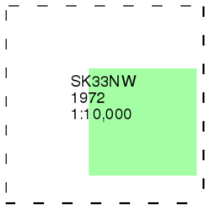
Ordnance Survey Plan

Published 1972

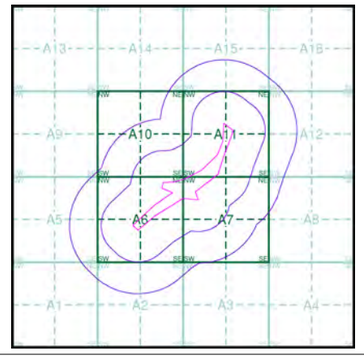
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



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Order Details

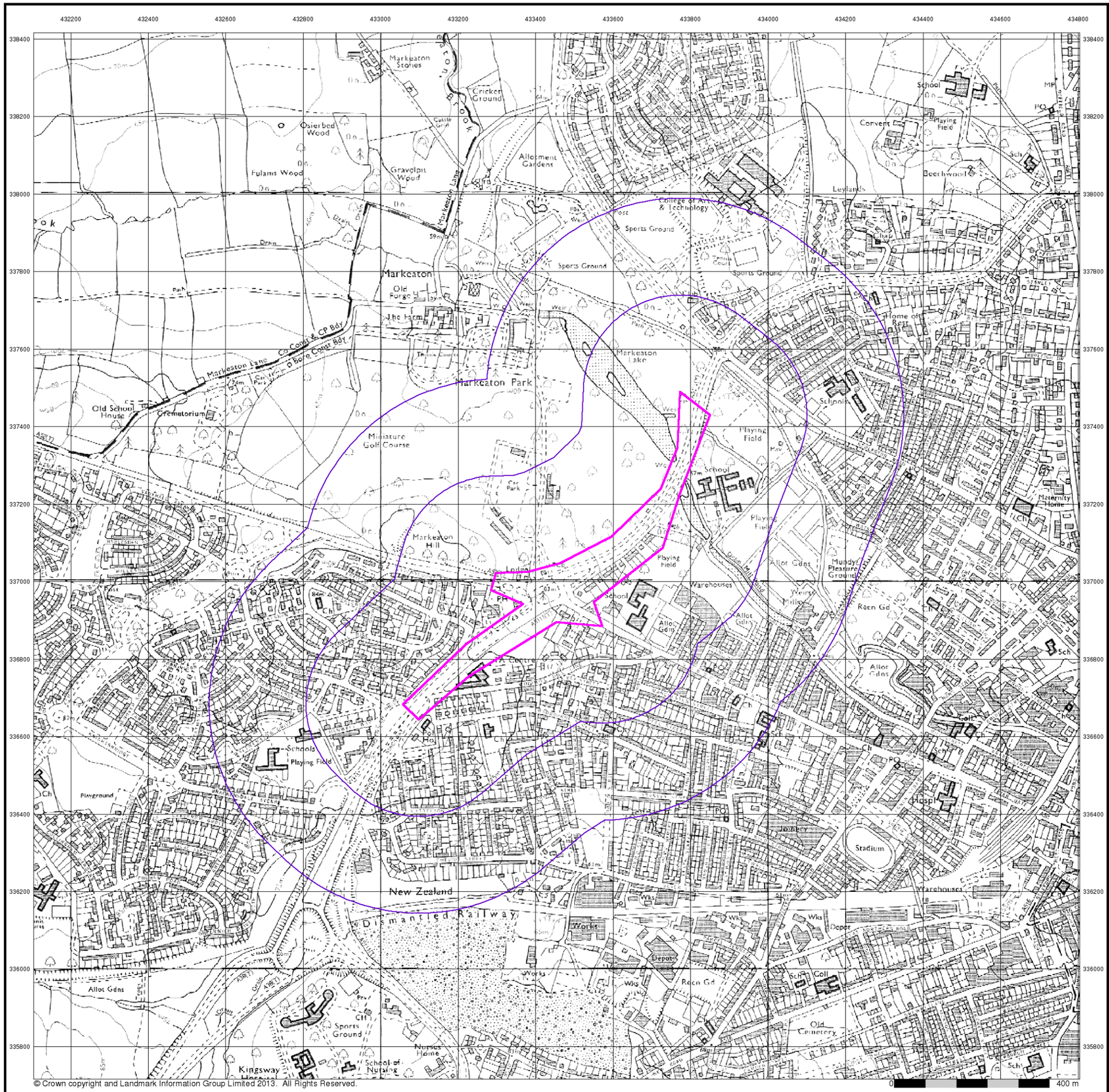
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National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group

Tel: 0844 844 9952
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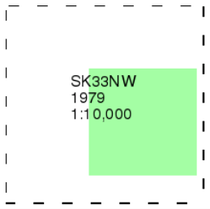
Ordnance Survey Plan

Published 1979

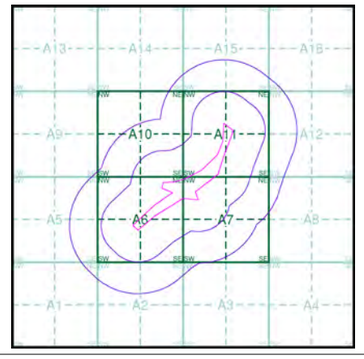
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	60387091_1_1
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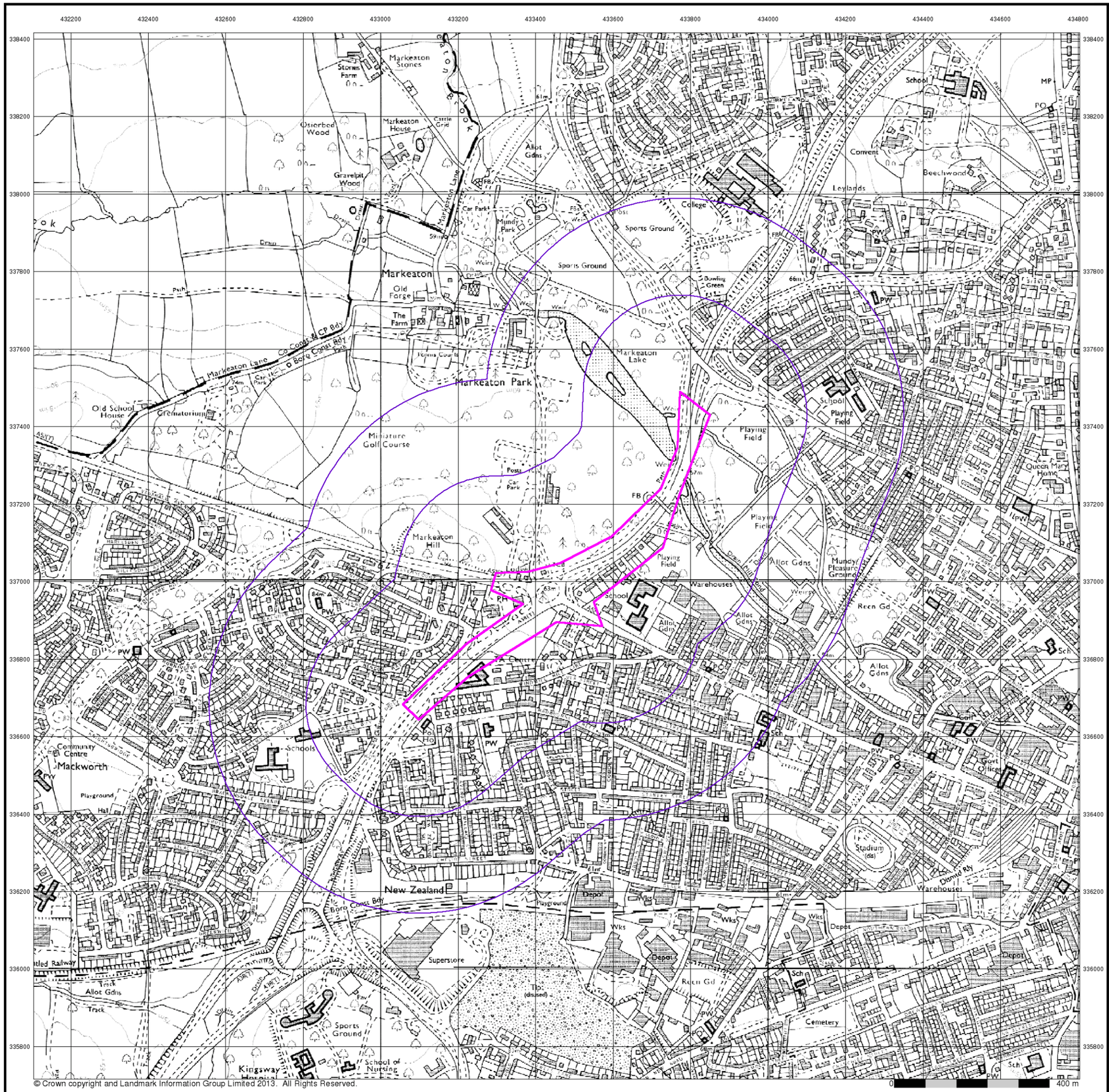
Site Details

Site at, Derby, City of Derby

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Маркитон-Стонс
спорт. пл.
лес Озирбед
лес Гравелпит
Мокуэрт
59.9
лес Олдеркар
Детский игровой центр
спорт.пл.
57.9
спорт.пл. клуб
технолог.колледж
35
мон.Сент-Филоминас
Вичвуд
Лилендс
ул. БРОДУЭЙ
ул. ПЕННИЛОНГ-ЛЕЙН
почта 46
Олд-Фордж ферма
Маркитон
поместье
спорт.пл.
р. Маркитон
Олд-Скул-Хаус
парк Маркитон
ул. АБЩОРН-РОД
ул. ВОКСХОЛЛ-АВЕНЮ
ул. ХЕДДОН-РОД
ул. ДАФФИЛД-РОД
ул. БЕРЛИН-ДРАЙВ
ул. ЭЛЛИОТ-ГРОВ
ул. ЭЛЛИОТ-СТРИТ
ул. ЭЛЛИОТ-ПЛЕЙС
ул. ЭЛЛИОТ-ТЕРРАС
ул. ЭЛЛИОТ-ЛЕЙН



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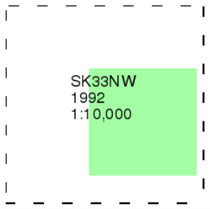
Ordnance Survey Plan

Published 1992

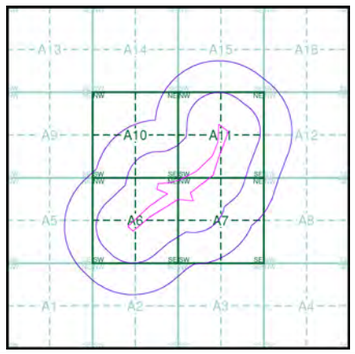
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



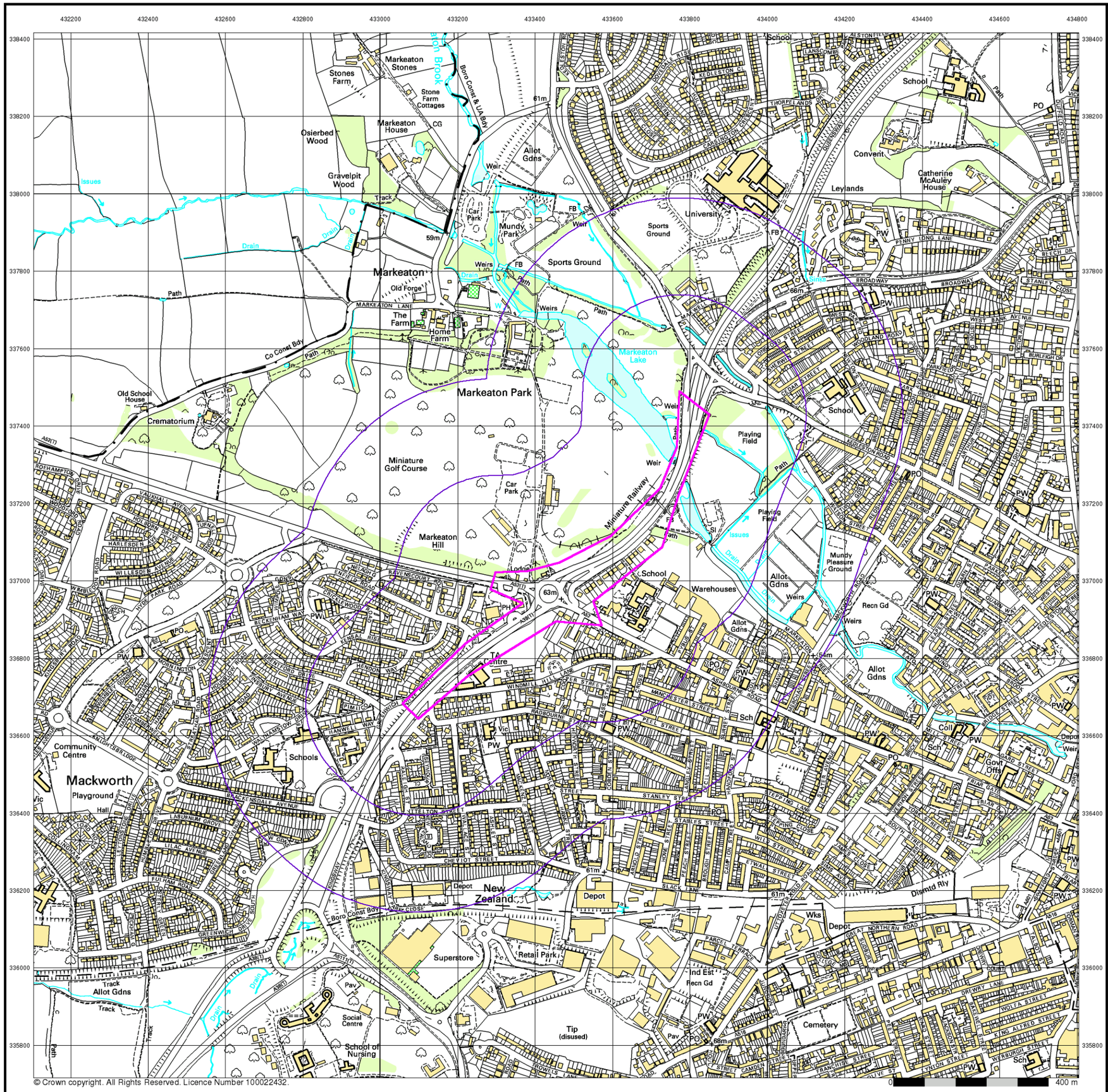
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Site Area (Ha):	10.53
Search Buffer (m):	500

Site Details

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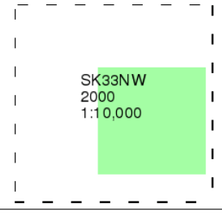
10k Raster Mapping

Published 2000

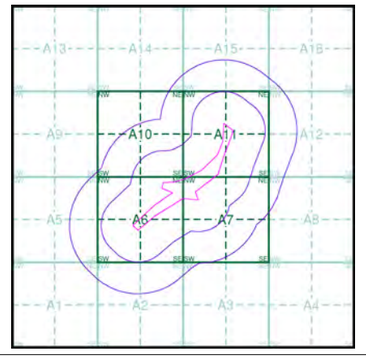
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



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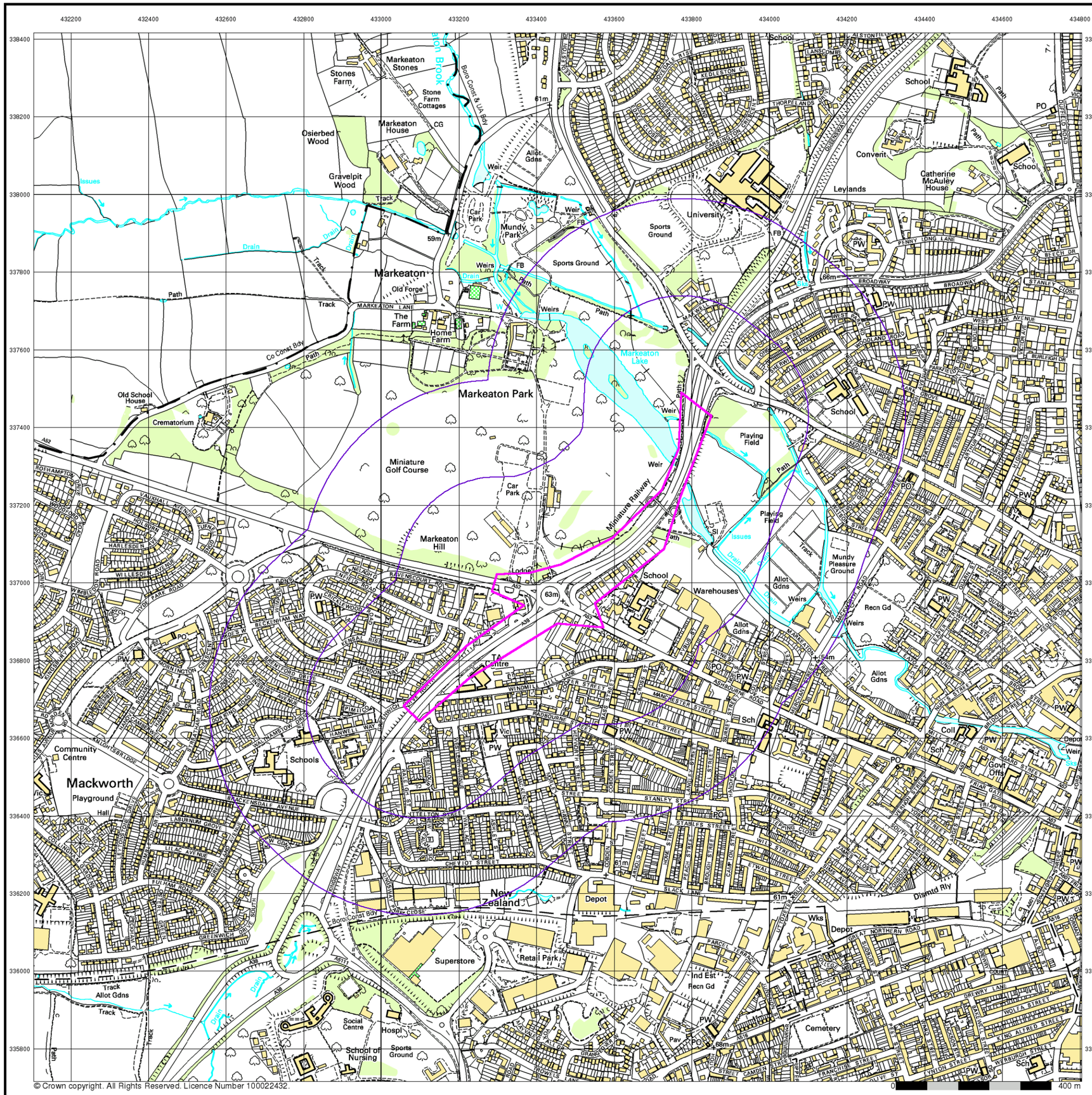
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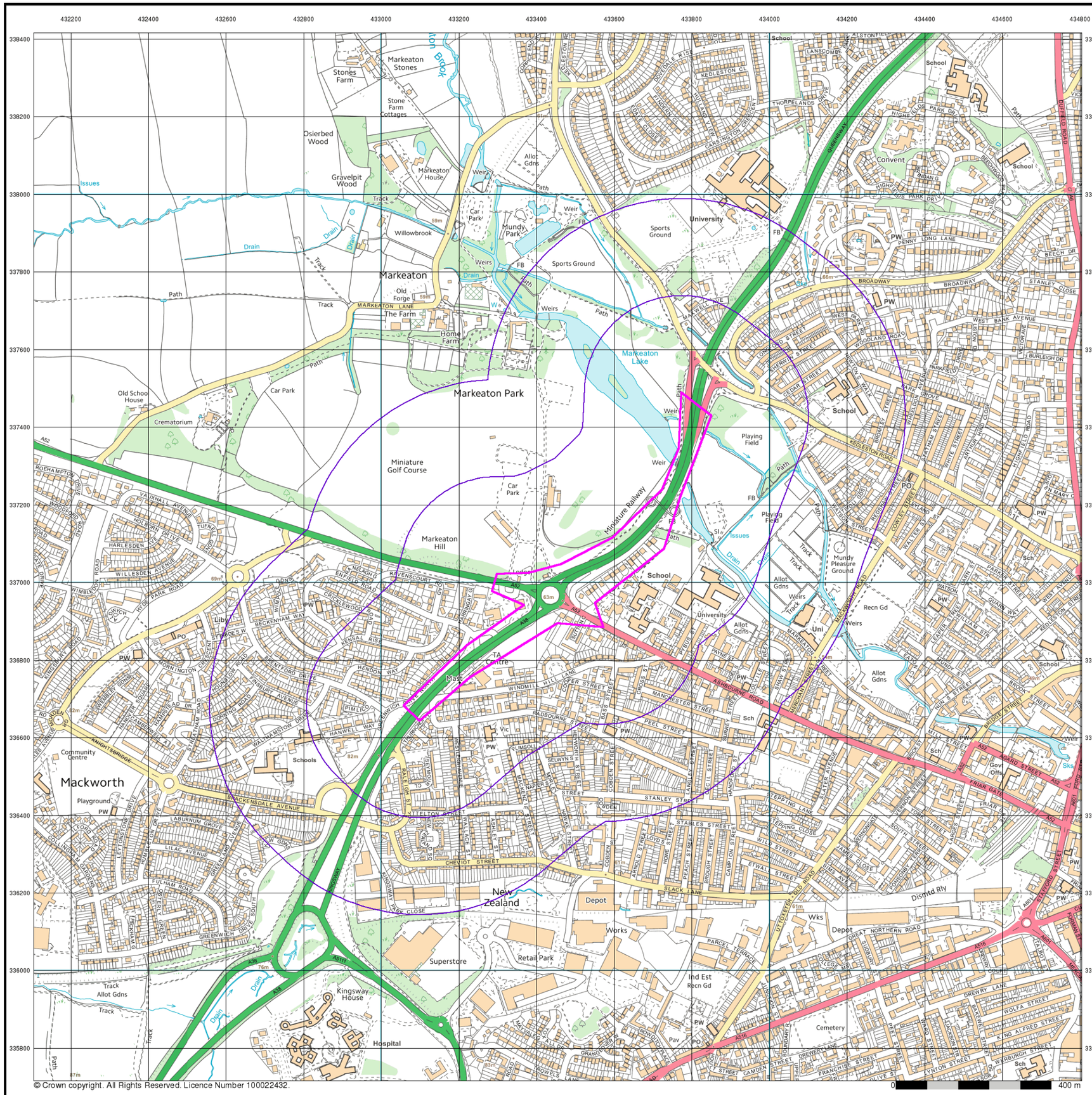
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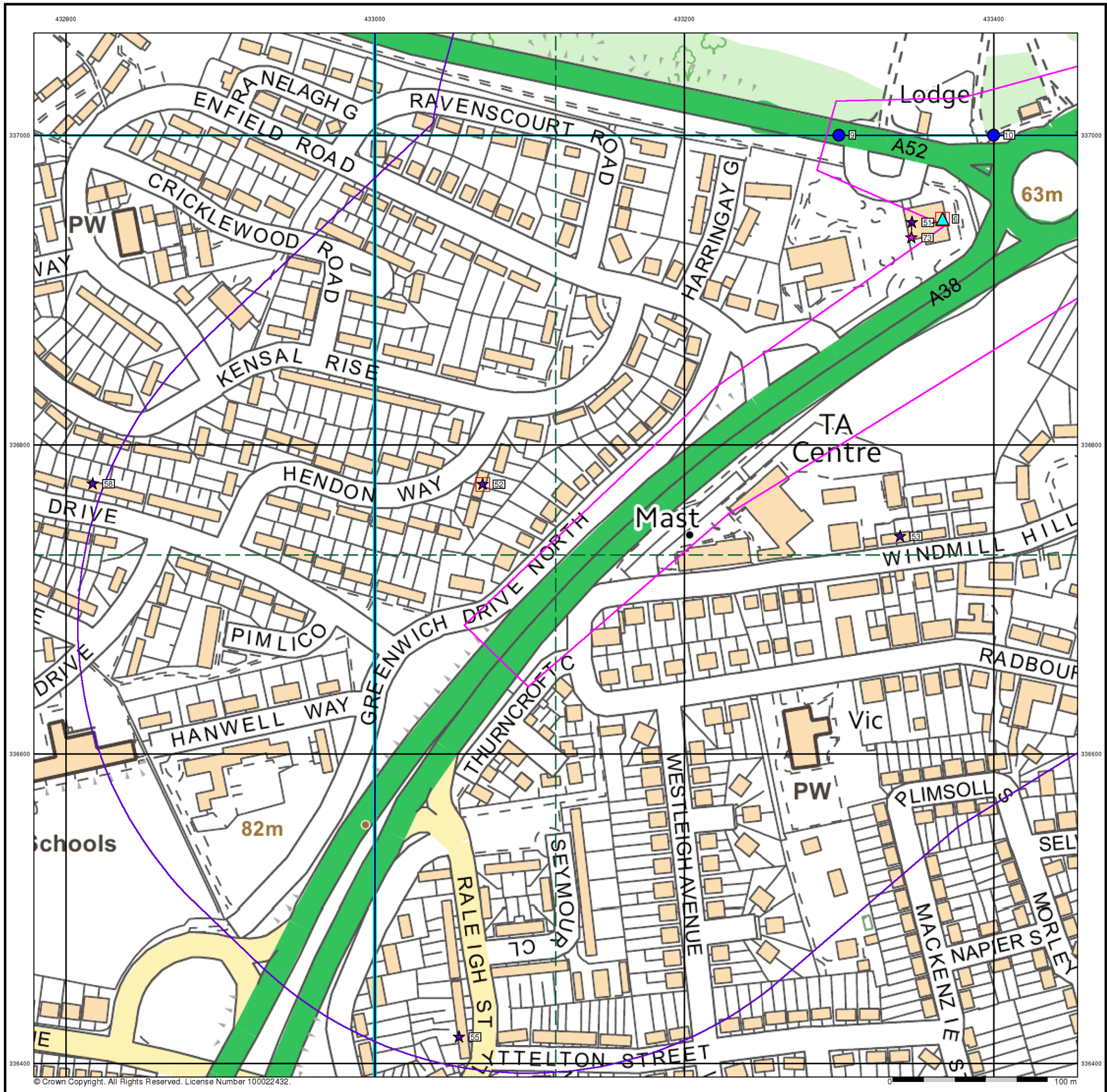
Site at, Derby, City of Derby

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Markeaton Stones
Stones Farm
Stone Farm Cottages
Markeaton House
Osierbed Wood
Gravelpit Wood
Markeaton
Old Forge
The Farm
Home Farm
Markeaton Park
Markeaton Lake
Mundy Park
Sports Ground
Car Park
Allot Gdns
Weir
Drain
Track
Path
Issues
Co Const Bdy
Boro Const & UA Bdy
Old School House
Crematorium
Miniature Golf Course
Miniature Railway
Markeaton Hill
Playing Field
Mundy Pleasure Ground
Warehouses
Recn Gd
Ind Est
Depot
Dismtd Rly
Wks
Retail Park
Superstore
New Zealand
Community Centre
Schools
Mackworth
Playground
Hall
TA Centre
Govt Offs
Social Centre
Hospl
School of Nursing
Cemetery
Sports Ground
Pav
Convent
Catherine McAuley House
Leylands
University
Sports Ground
Markeaton Lane
Broadway
Normanton Road
Osmaston Road
Derby Road
Kedleston Road
Duffield Road
Wilmorton
Arboretum
Litchurch
Chaddesden
Allenton
Darley Abbey
Little Eaton
Mickleover
Pastures Hospl
Derby Cricket Ground
Derby Rugby Club
Derby Moor
Rolls Royce
Sinfin
Chellaston
Shelton Lock
Alvaston
Boulton Moor
Boulton Lane
Raynesway
Chaddesden Park
Chaddesden Common
Nottingham Road
Ashbourne Road
Uttoxeter New Road
Wilmorton Road
Burton Road
Friargate
Bridge Street
Siddals Road
Normanton Road
Osmaston Park Road
Kedleston Road
Duffield


Markeaton Stones
Stones Farm
Stone Farm Cottages
Osierbed Wood
Gravelpit Wood
Markeaton House
Allot Gdns
Weir
Path
Track
Car Park
Mundy Park
Sports Ground
University
Convent
Willowbrook
Drain
Issues
Markeaton
Old Forge
The Farm
MARKEATON LANE
Home Farm
Markeaton Lake
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Old Schoo House
Crematorium
Miniature Golf Course
Miniature Railway
Markeaton Hill
Playing Field
Mundy Pleasure Ground
Recn Gd
Mackworth
Community Centre
Playground
Schools
New Zealand
Depot
Works
Superstore
Retail Park
Ind Est
Kingsway House
Hospital
TA Centre
Mast
Cemetery
Gov. Offs
Sch
Pav
Vic
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A5
A52
A38



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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

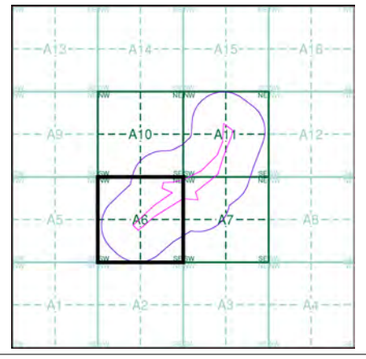
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A6



Order Details

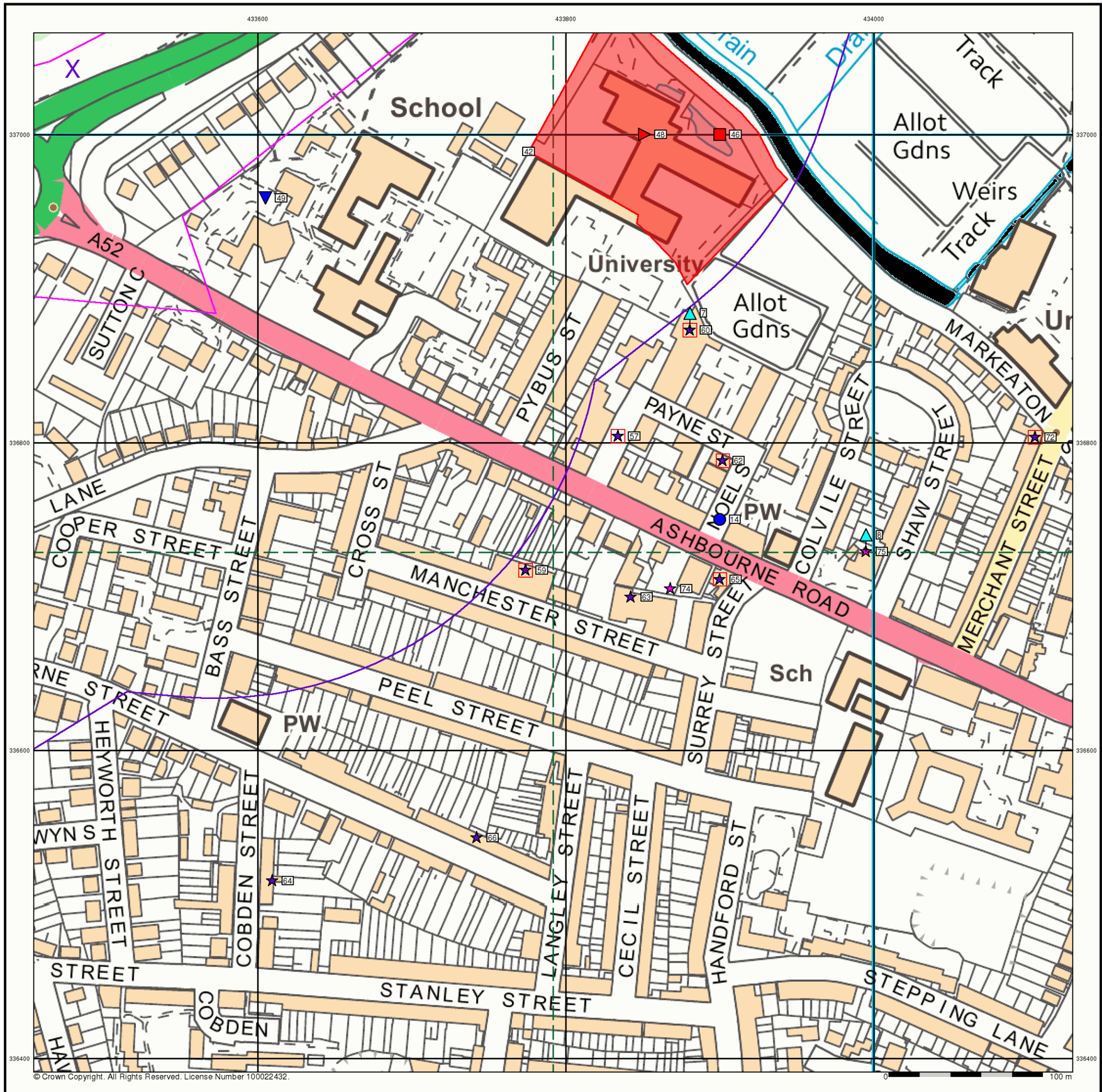
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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Web: www.envirocheck.co.uk



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General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

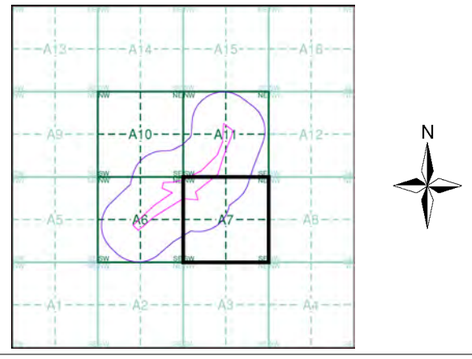
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A7



Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53

Site Details

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General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)
Contaminated Land Register Entry or Notice
Discharge Consent
Enforcement or Prohibition Notice
Integrated Pollution Control
Integrated Pollution Prevention Control
Local Authority Integrated Pollution Prevention and Control
Local Authority Pollution Prevention and Control
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution Relating to Authorised Processes
Prosecution Relating to Controlled Waters
Registered Radioactive Substance
River Network or Water Feature
River Quality Sampling Point
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

Waste

BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
EA Historic Landfill (Buffered Point)
EA Historic Landfill (Polygon)
Integrated Pollution Control Registered Waste Site
Licensed Waste Management Facility (Landfill Boundary)
Licensed Waste Management Facility (Location)
Local Authority Recorded Landfill Site (Location)
Local Authority Recorded Landfill Site
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point Buffered to 100m)
Registered Landfill Site (Point Buffered to 250m)
Registered Waste Transfer Site (Location)
Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site

Geological

BGS Recorded Mineral Site

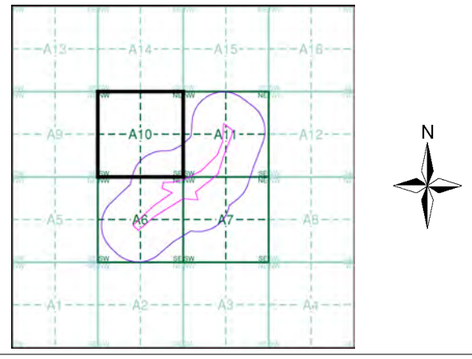
Hazardous Substances

COMAH Site
Explosive Site
NIHHS Site

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A10



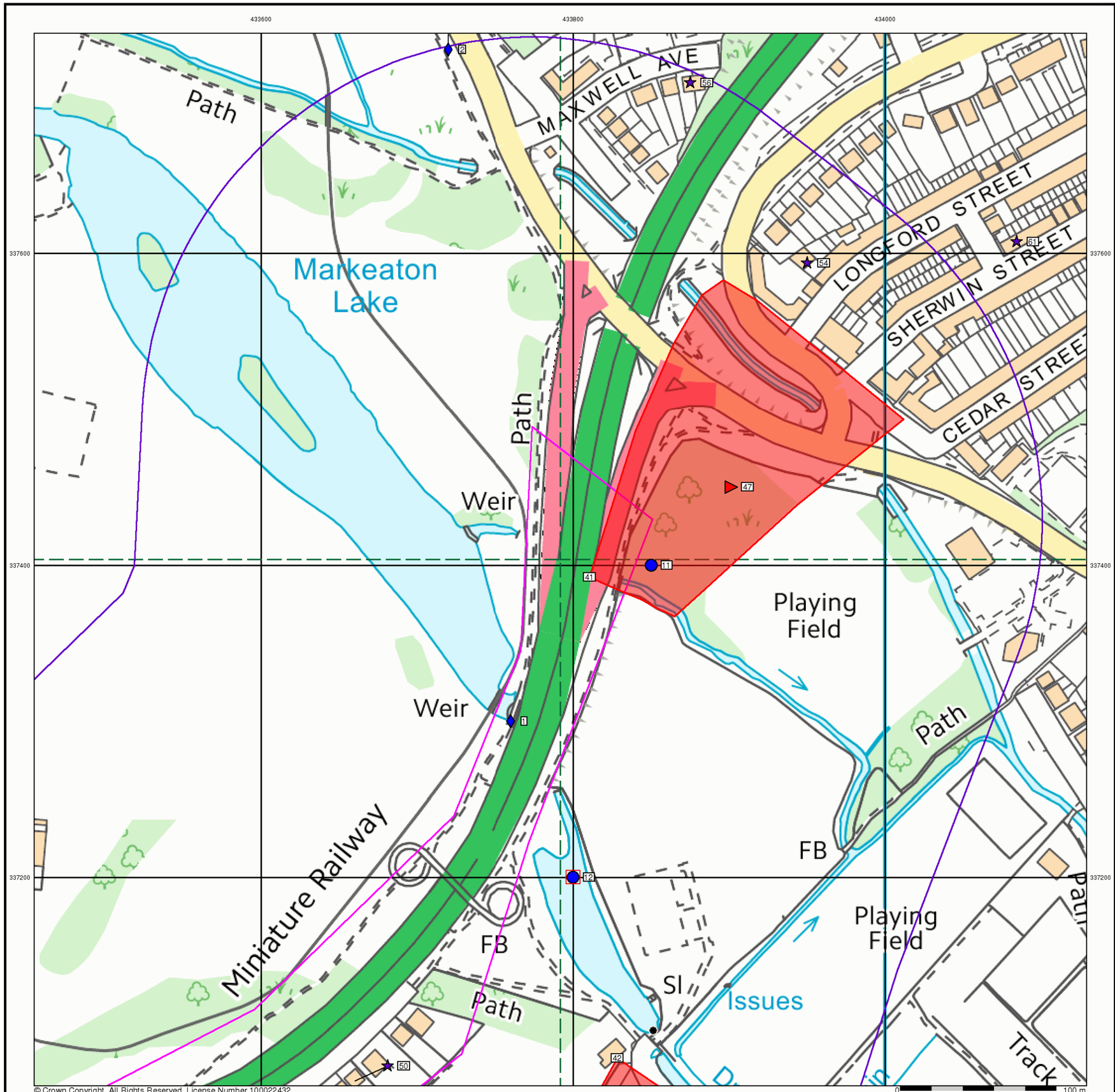
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53

Site Details

Site at, Derby, City of Derby

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

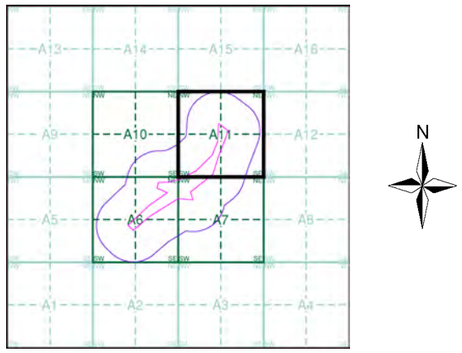
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A11



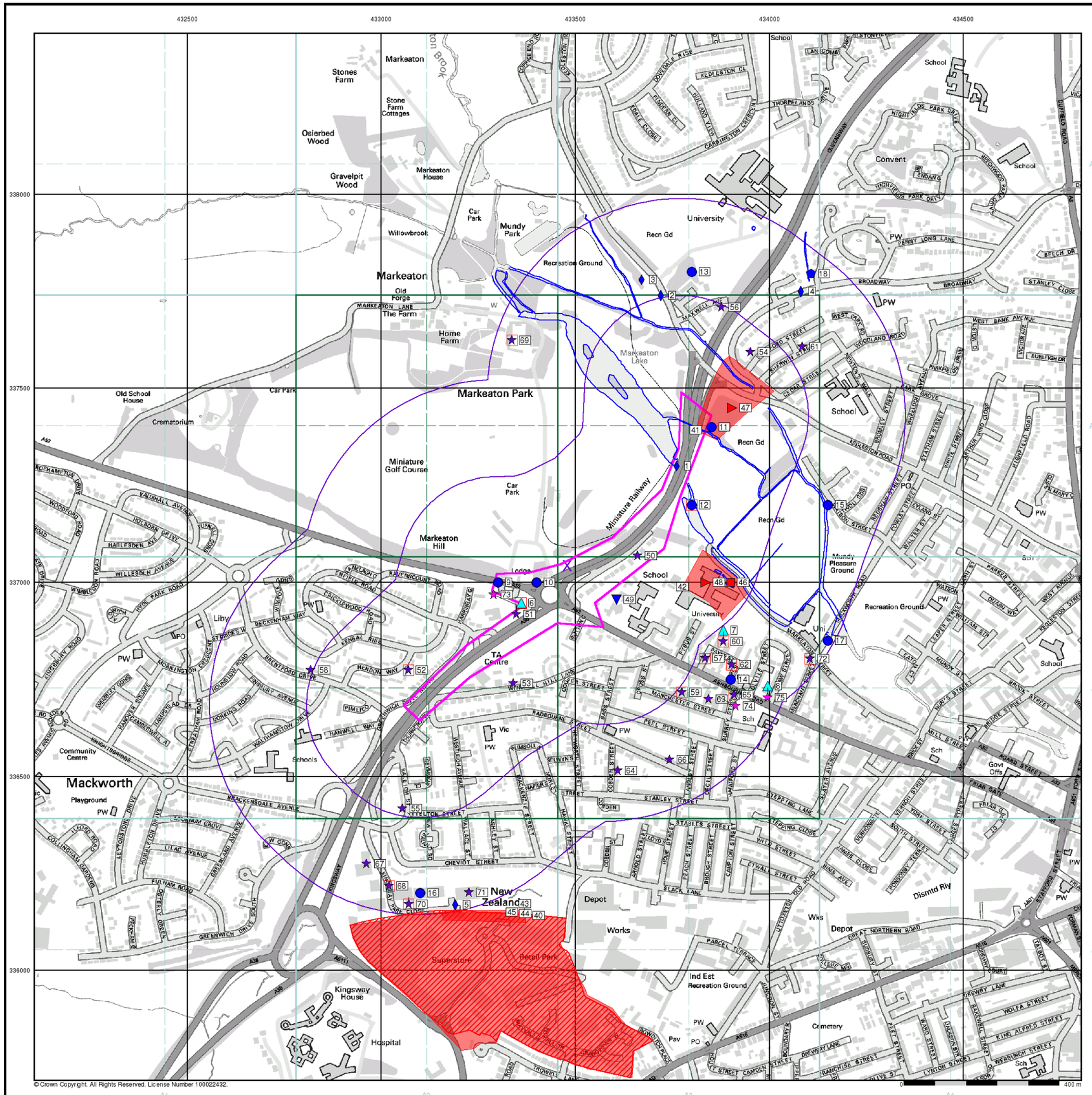
Order Details

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Markeaton
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Stone Farm Cottages
Osierbed Wood
Gravelpit Wood
Markeaton House
Car Park
Willowbrook
Mundy Park
Recreation Ground
Old Forge
The Farm
Home Farm
Markeaton Lake
Markeaton Park
Old School House
Crematorium
Car Park
Miniature Golf Course
Car Park
Miniature Railway
Markeaton Hill
Lodge
TA Centre
Liby
PO
PW
Community Centre
Schools
Mackworth
Playground
Vic
Depot
Works
New Zealand
Supersore
Retail Park
Kingsway House
Hospital
Ind Est
Recreation Ground
Cemetery
Dismtd Rly
Govt Offs
University
Recn Gd
Convent
School
Sch
Uni
Mundy Pleasure Ground
Broadway
Queensway
Thorpelands Avenue
Highfields Park Drive
Penny Long Lane
Broadway
Stanley Close
Beech Dr
Duffield Road
Kedleston Road
Broadway
Wood Road
Bramley Street
Stanhope Street
Arthur Hind Close
Highfield Road
Parker Street
Watson Street
Duke Street
Leopold Street
Brook Street
Agard Street
Friar Gate
Great Northern Road
Derwent Street
Wolfa Street
King Alfred Street
Werburgh Street
Bridge Street
Mill Street
Stanley Street
Stepping Lane
Stables Street
Chevet Street
Siddals Road
Traffic Street
Trowell Street
Osmaston Road
Normanton Road
Pear Tree Road
Ashbourne Road
Manchester Street
Peel Street
Radbourne Street
Cedar Street
Sherwin Street
Lord Street
Maxwell Rise
Woodland Road
West Bank Avenue
Victoria Ave
Burleigh Dr
Parkfields Drive
Wheldon Grove
Wheldon Road
Stanhope Street
White Street
Arthur Hind Close
Highfield Road
Bramley Street
Cowley Street
Walter St
Robson Street
Ascot Drive
Kedleston



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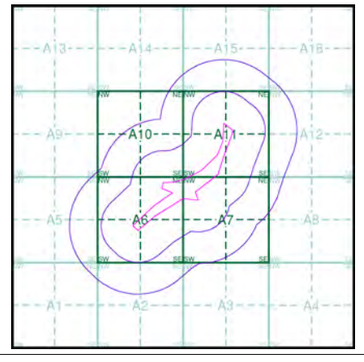
General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



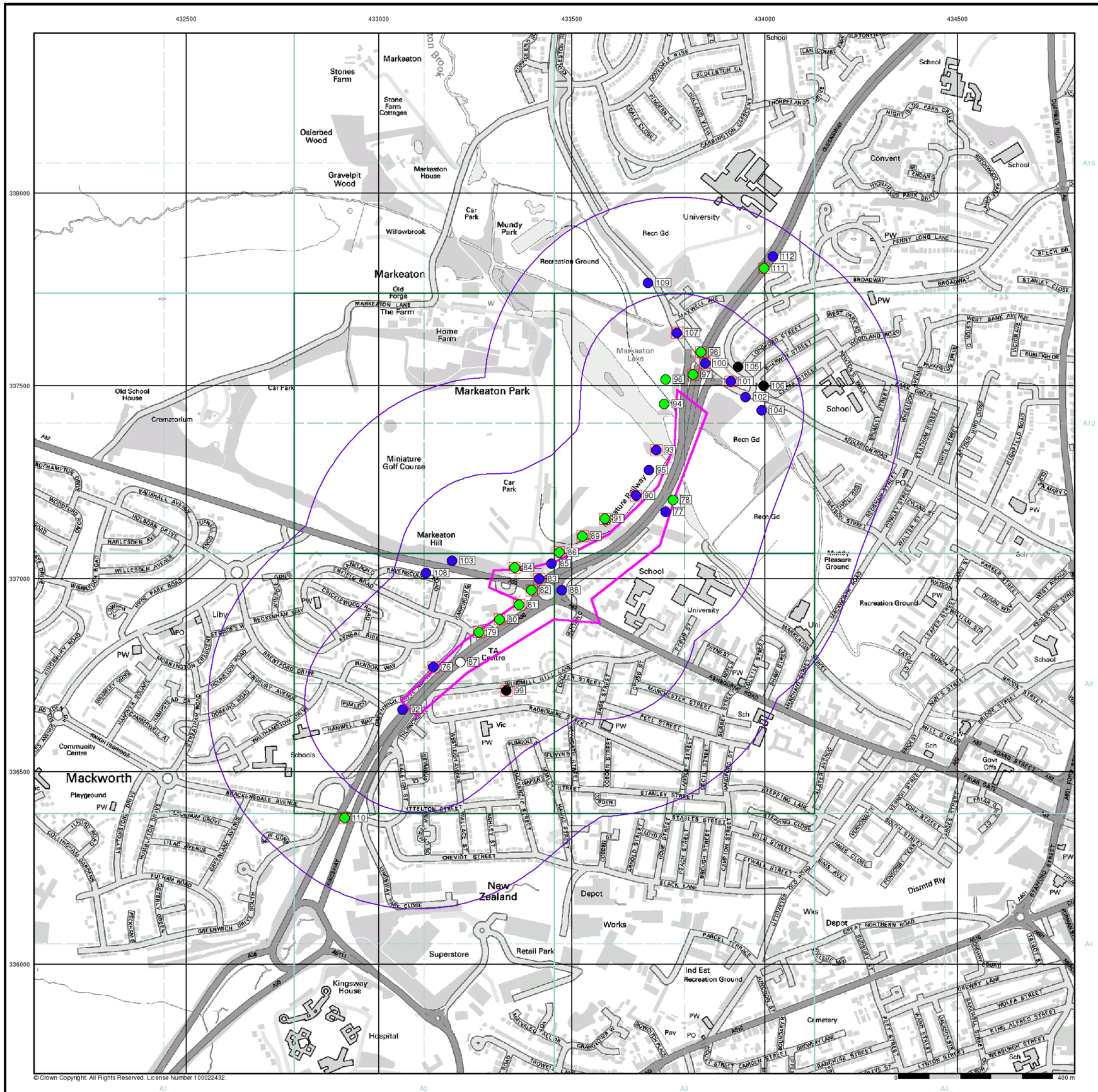
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	500

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- Map ID
- Several of Type at Location

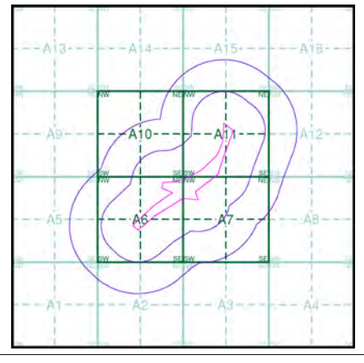
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

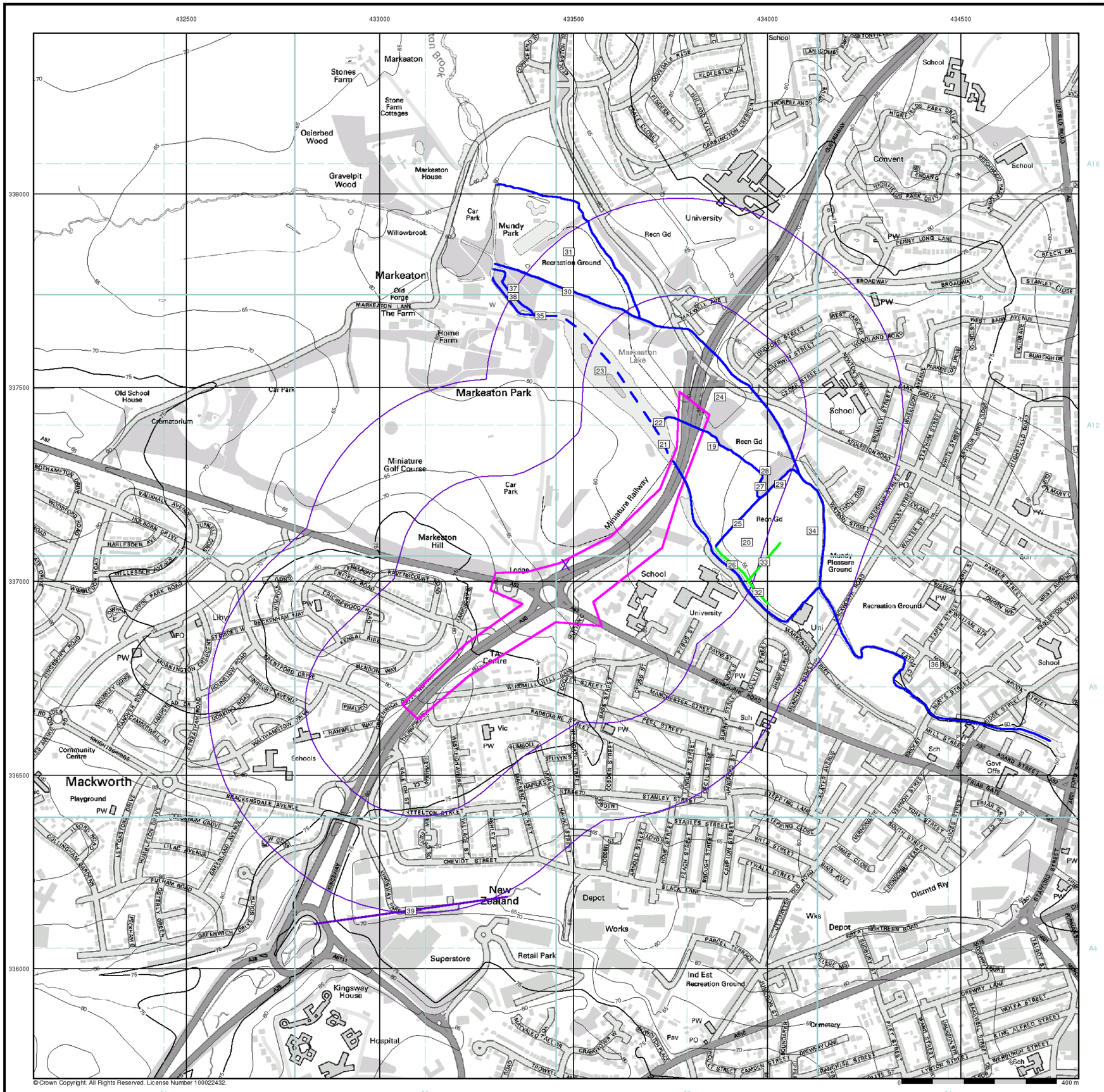
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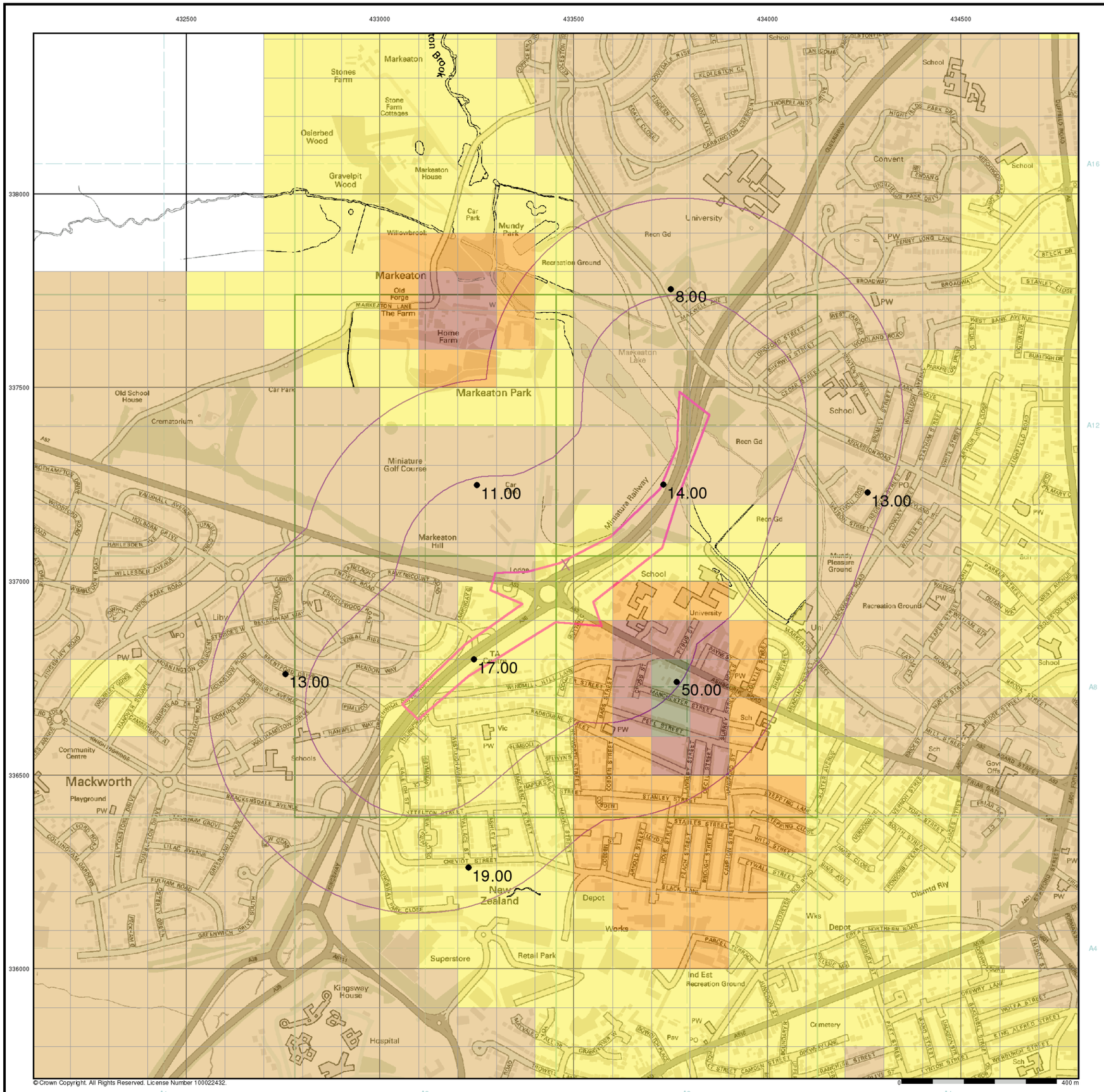
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Stone Farm Cottages
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Car Park
Mundy Park
Recreation Ground
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Old Forge
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Home Farm
Markeaton Lake
Markeaton Park
Old School House
Crematorium
Car Park
Miniature Golf Course
Car Park
Miniature Railway
Markeaton Hill
Lodge
School
University
Recn Gd
Recreation Ground
Convent
School
School
Uni
Mundy Pleasure Ground
Recreation Ground
Community Centre
Schools
Mackworth
Playground
Vic
Sch
Govt Offs
New Zealand
Depot
Works
Superstore
Retail Park
Ind Est
Recreation Ground
Depot
Wks
Dismd Rly
Kingsway House
Hospital
Cemetery
Pav
TA Centre
Lib
PO
Sch
Uni
Mkt
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Schools
Community Centre
Playground
Govt Offs
Dismd Rly
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TA Centre



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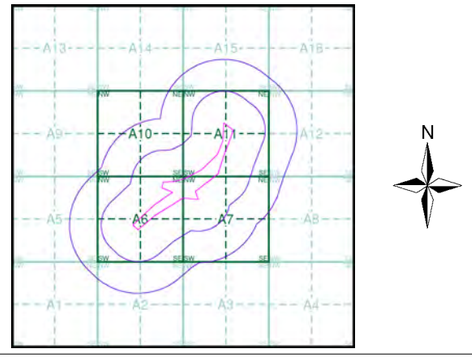
Urban Soil Chemistry Arsenic

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Arsenic Concentrations mg/kg

< 15
15 - 25
25 - 35
35 - 45
45 - 60
60 - 120
> 120

Urban Soil Chemistry Arsenic - Slice A



Order Details

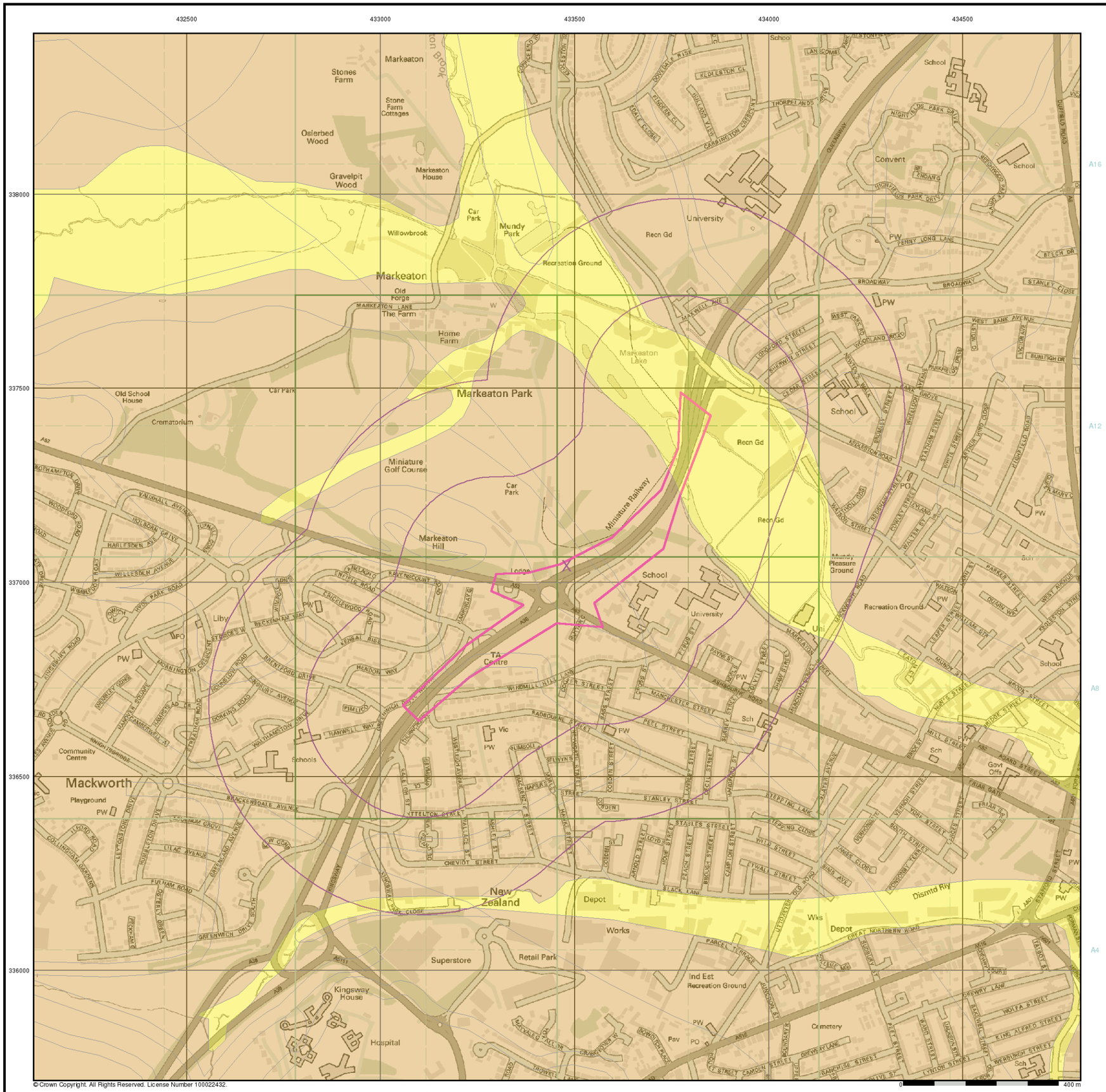
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
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Site Area (Ha):	10.53
Search buffer (m):	500

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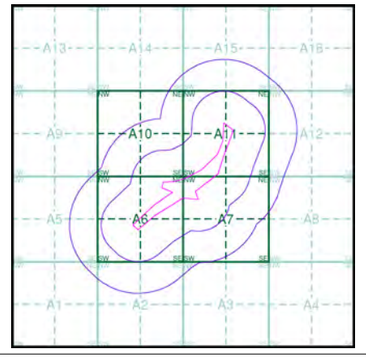
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



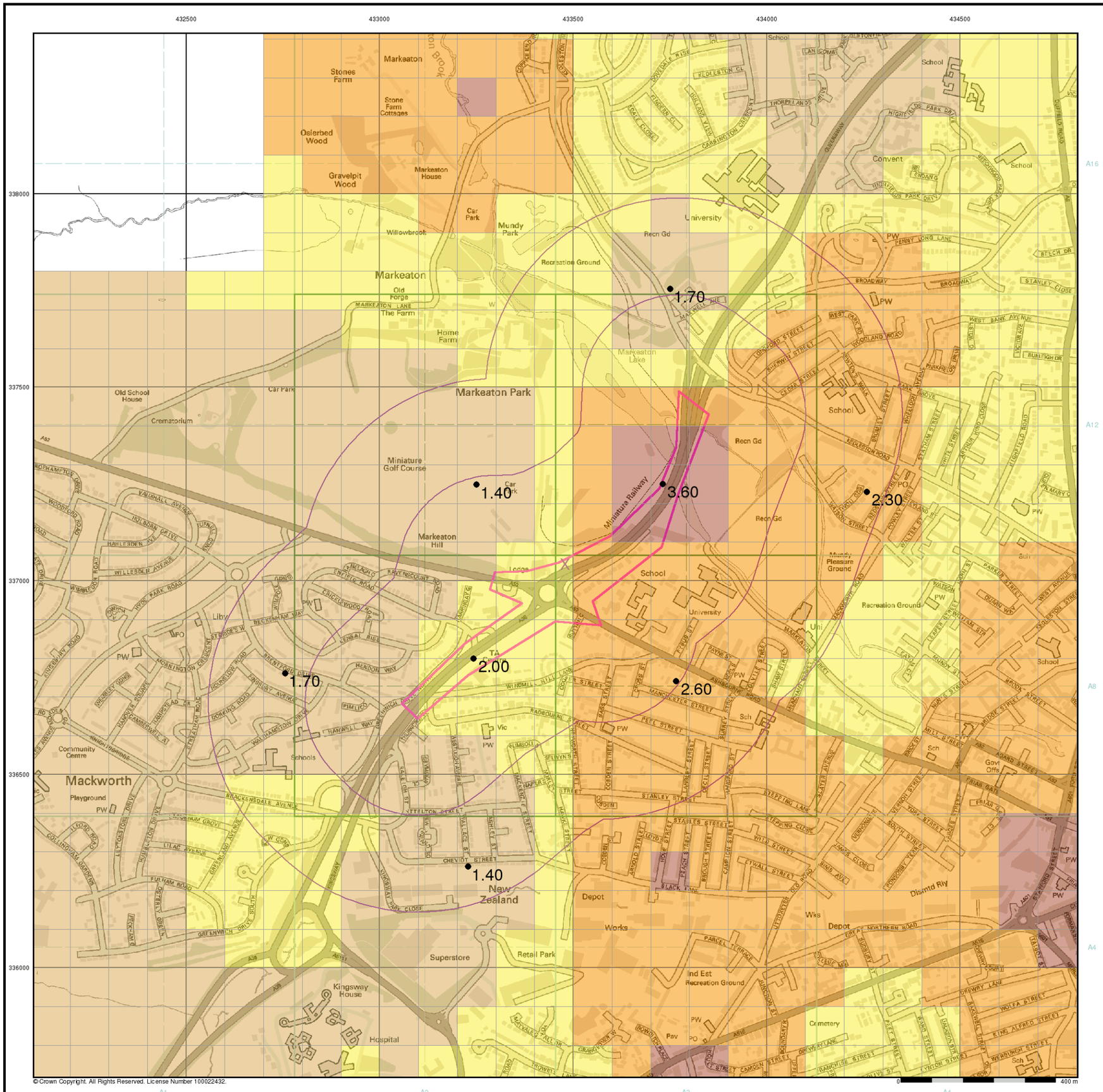
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Order Details:	60387091_1_1
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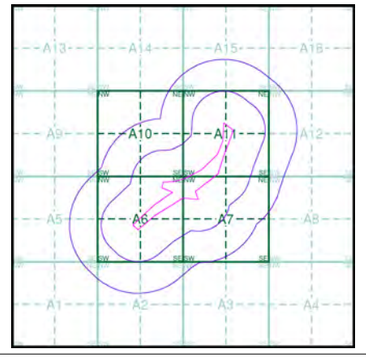
Urban Soil Chemistry Cadmium

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Cadmium Concentrations mg/kg

< 1.8
1.8 - 2.2
2.2 - 3.0
> 3.0

Urban Soil Chemistry Cadmium - Slice A



Order Details

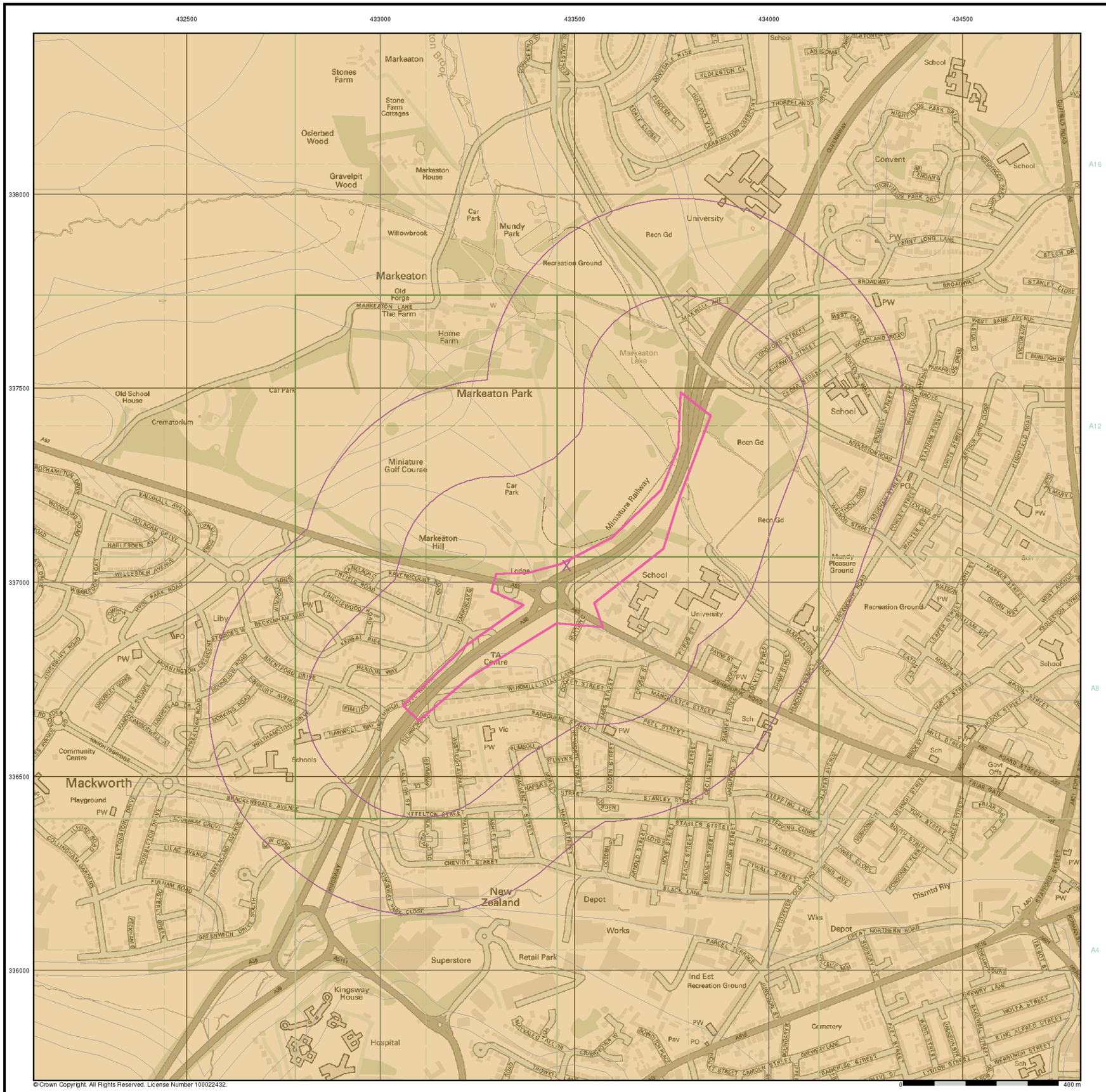
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General

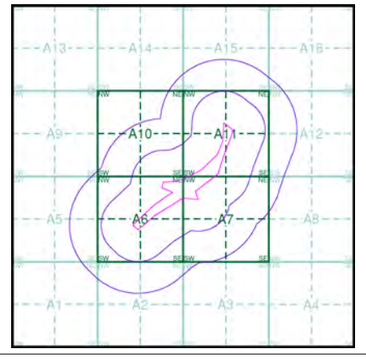
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



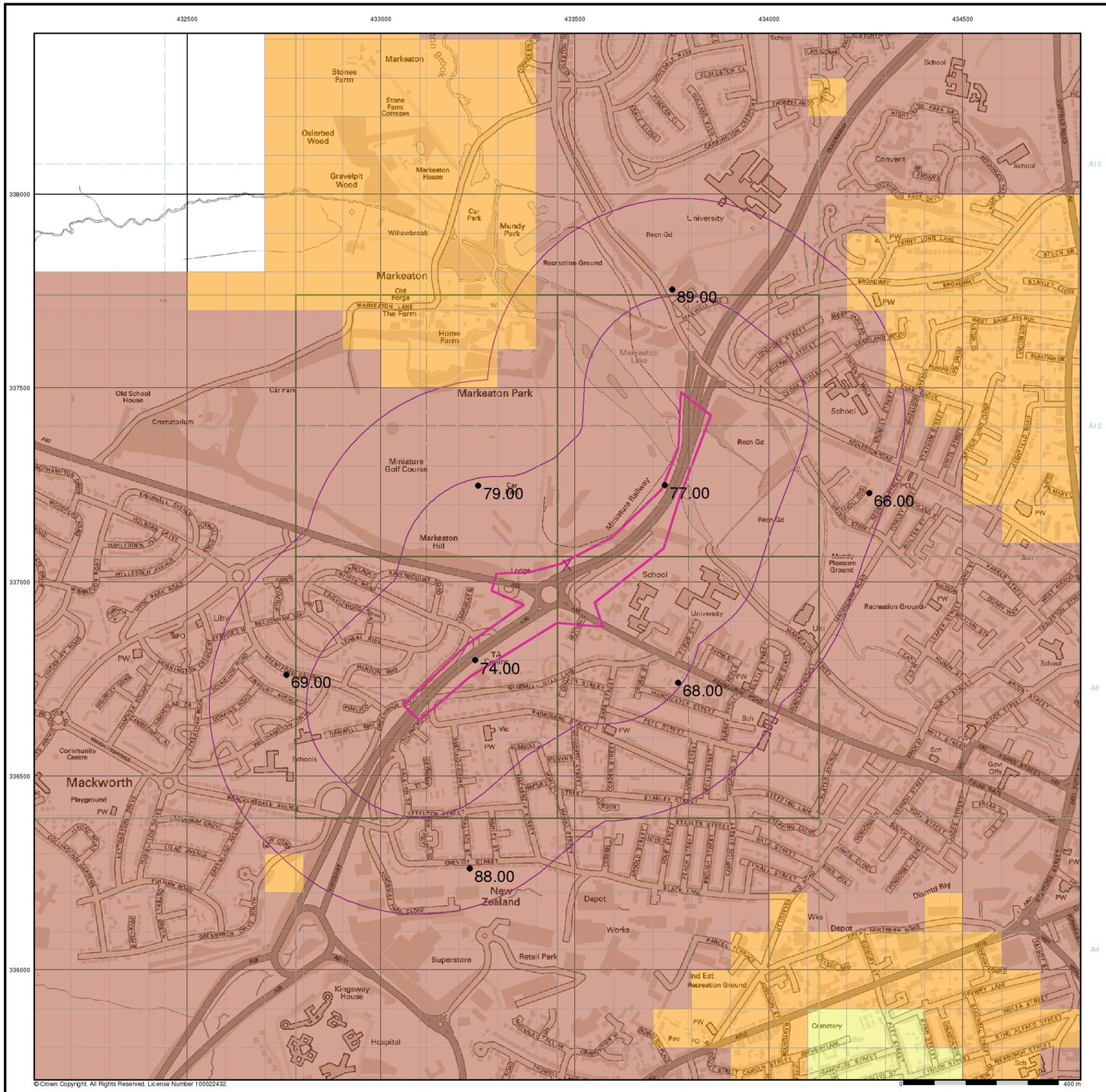
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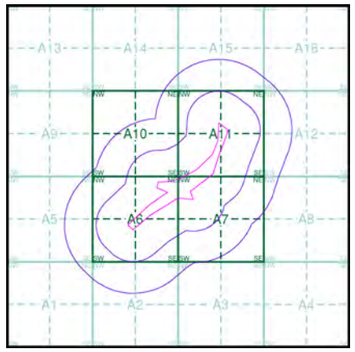
Urban Soil Chemistry Chromium

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Urban Soil Chemistry Chromium - Slice A



Order Details

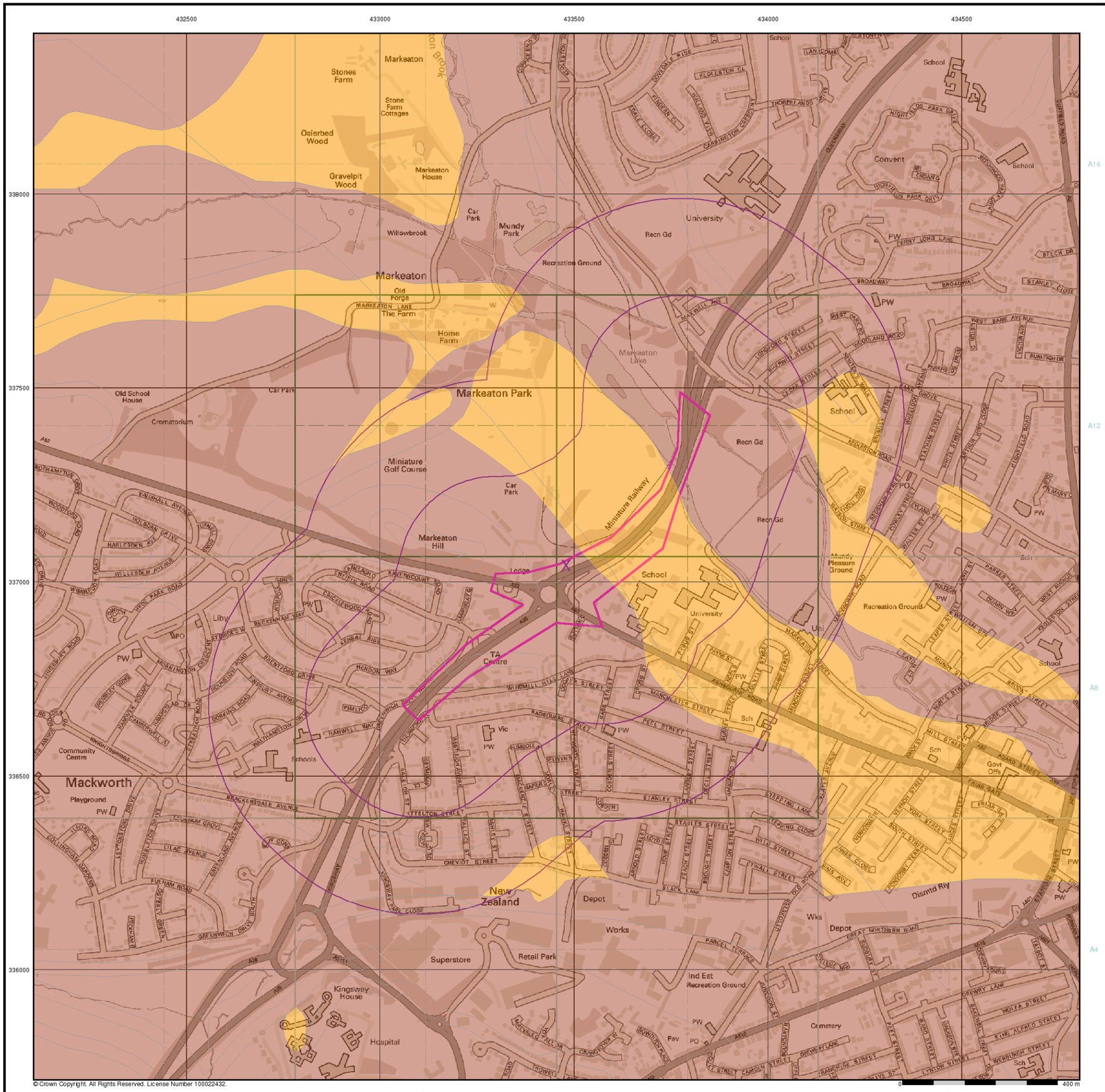
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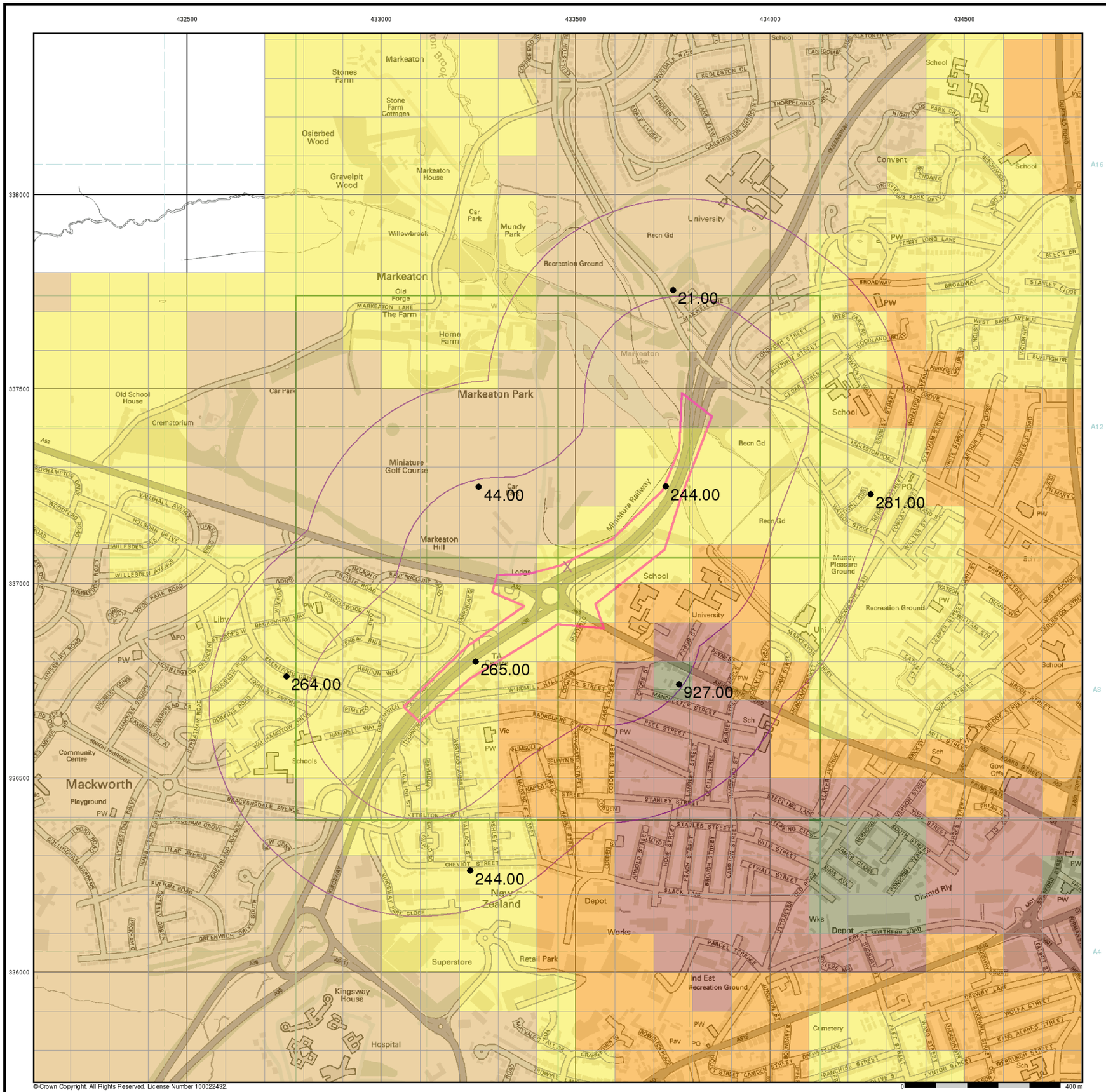
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Cemetery
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Hospital
Dismtd Rly
Wks
Depot
Liby
PO
Pav
Sch
Uni
Lodge
PW
Markeaton Brook
Markeaton Lane
Broadway
Broadway
Penny Longs Lane
Thorpelands Avenue
Kedleston Road
Derby Road
Great Northern Road
Great Northern Road
Osmaston Road
Osmaston Road
Manchester Street
Peel Street
Stanley Street
Stanley Close
Chevet Street
Slack Lane
Parcel Terrace
Friar Gate
Friar Gate
Agard Street
Bridge Street
Brook Street
Normanton Road
Normanton Road
Wilmot Street
Wilmot Street
Wolfa Street
King Alfred Street
Werburgh Street
Sitwell Street
Sitwell Street
Parker Street
Parker Street
Duffield Road
Duffield Road
Kedleston Road
Kedleston Road
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Broadway
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Stanley Close
Beech Dr
Burleigh Dr
Lightcliffe Ave
Highfield Road
Stanhope Street
Stanhope Street
Wheildon Avenue
Wheildon Avenue
Park Grove
Park Grove
Sherwill Street
Sherwill Street
Longford Street
Longford Street
Elder Street
Elder Street
Maxwell Rise
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Woodland Road
Woodland Road
West Bank Avenue
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Pinfield Lane
Pinfield Lane
Newton Walk
Newton Walk
Bromley Street
Bromley Street
Cowley Street
Cowley Street
Walker St
Walker St
Watson Close
Watson Close
Watson Street
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Rosehill Street
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Rosehill



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Specified Site | Specified Buffer(s) | X Bearing Reference Point

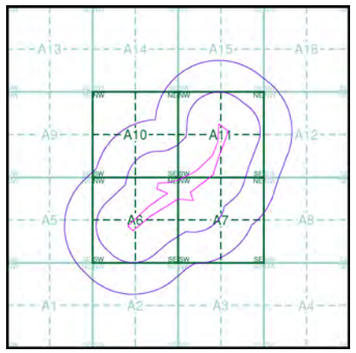
Urban Soil Chemistry Lead

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Lead Concentrations mg/kg

< 150
150 - 300
300 - 600
600 - 900
> 900

Urban Soil Chemistry Lead - Slice A



Order Details

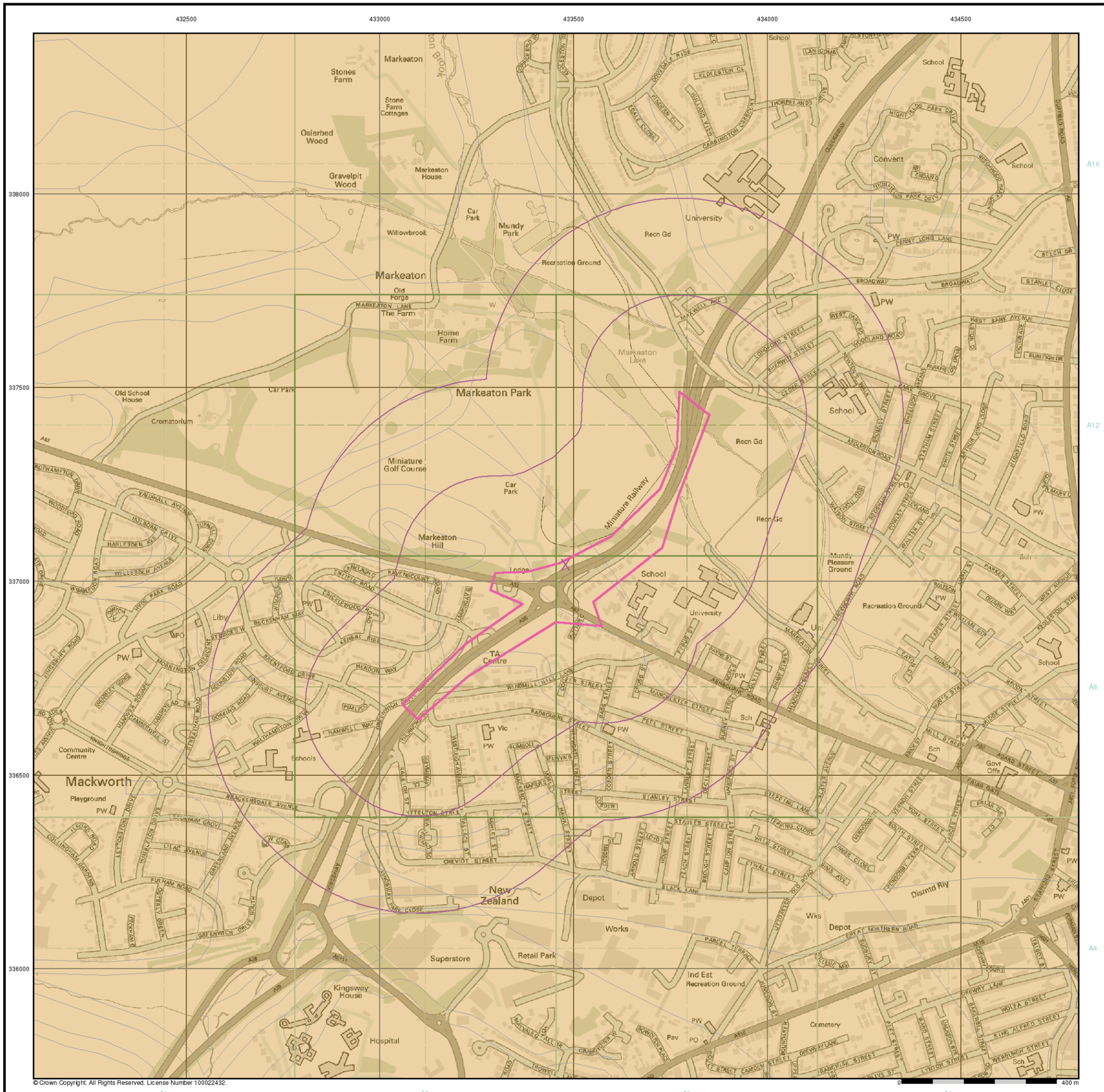
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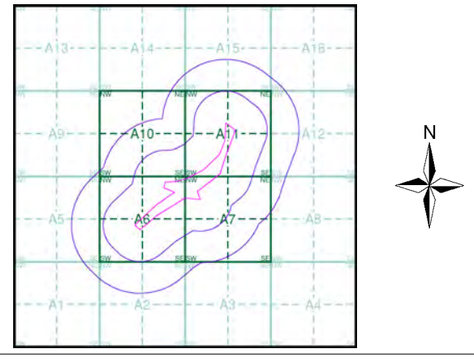
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Estimated Soil Chemistry Lead - Slice A



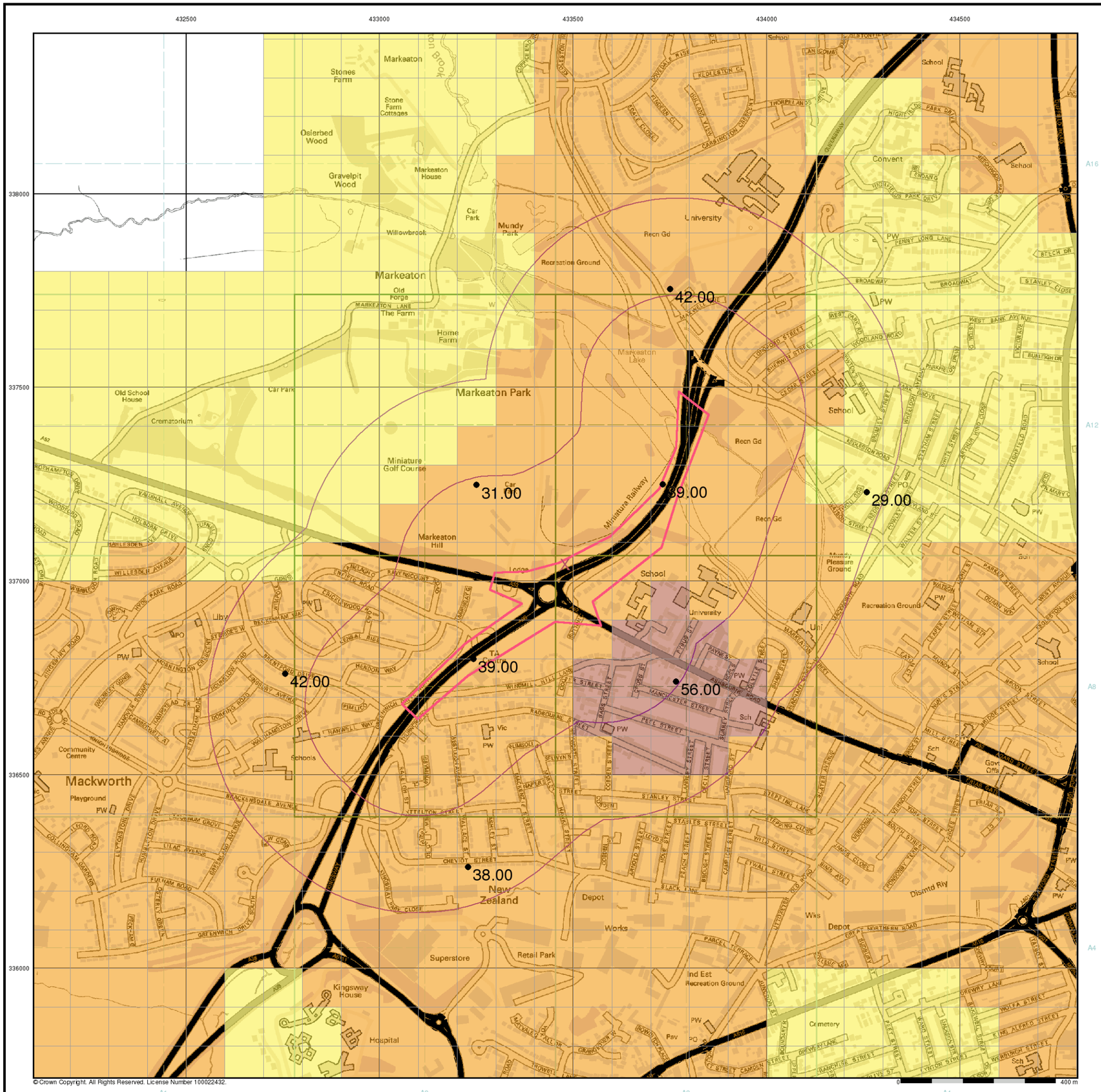
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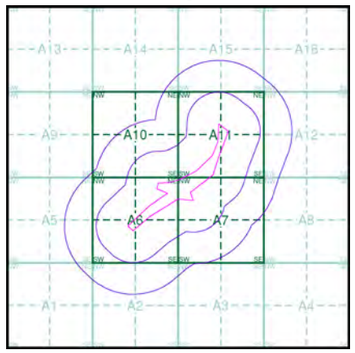
Urban Soil Chemistry Nickel

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Urban Soil Chemistry Nickel - Slice A



Order Details

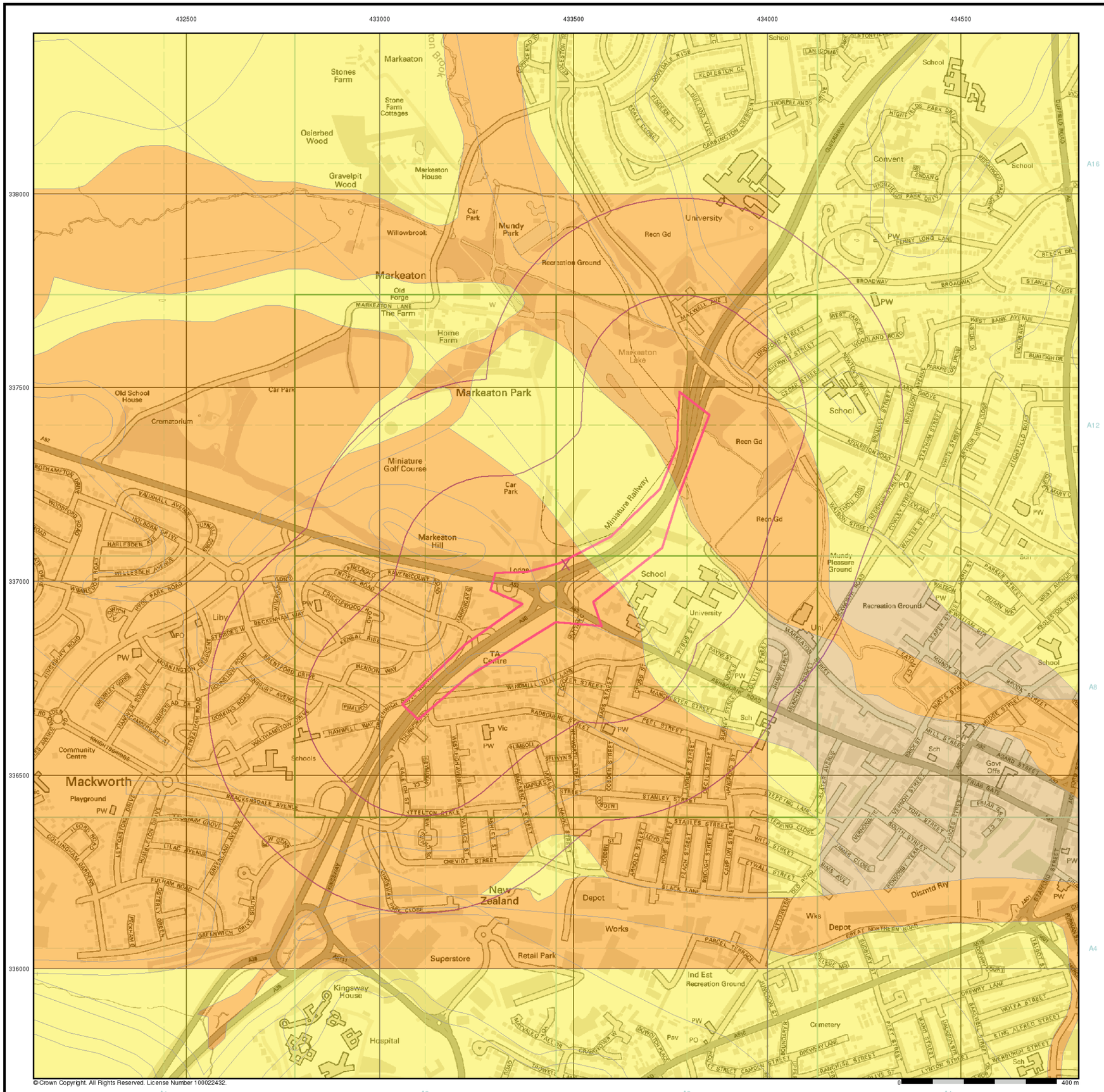
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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General

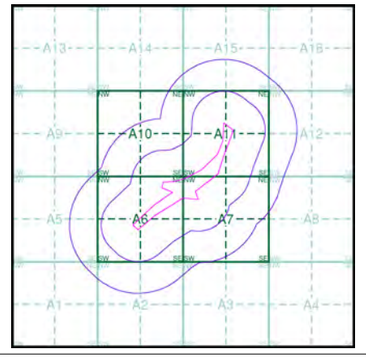
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



Order Details

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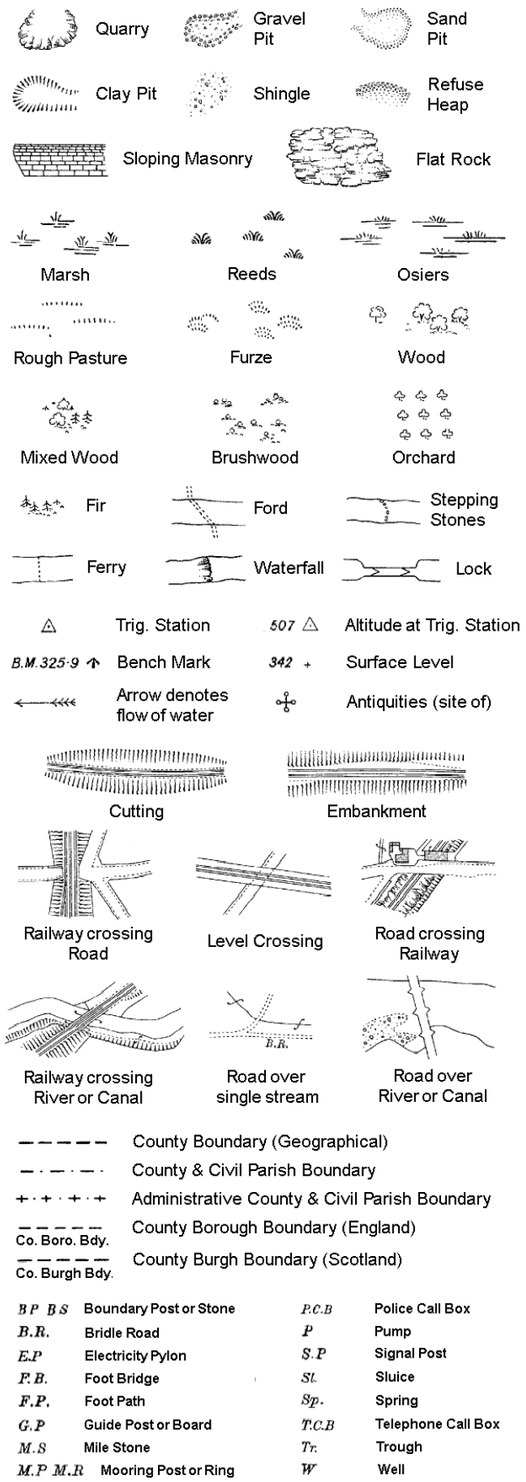
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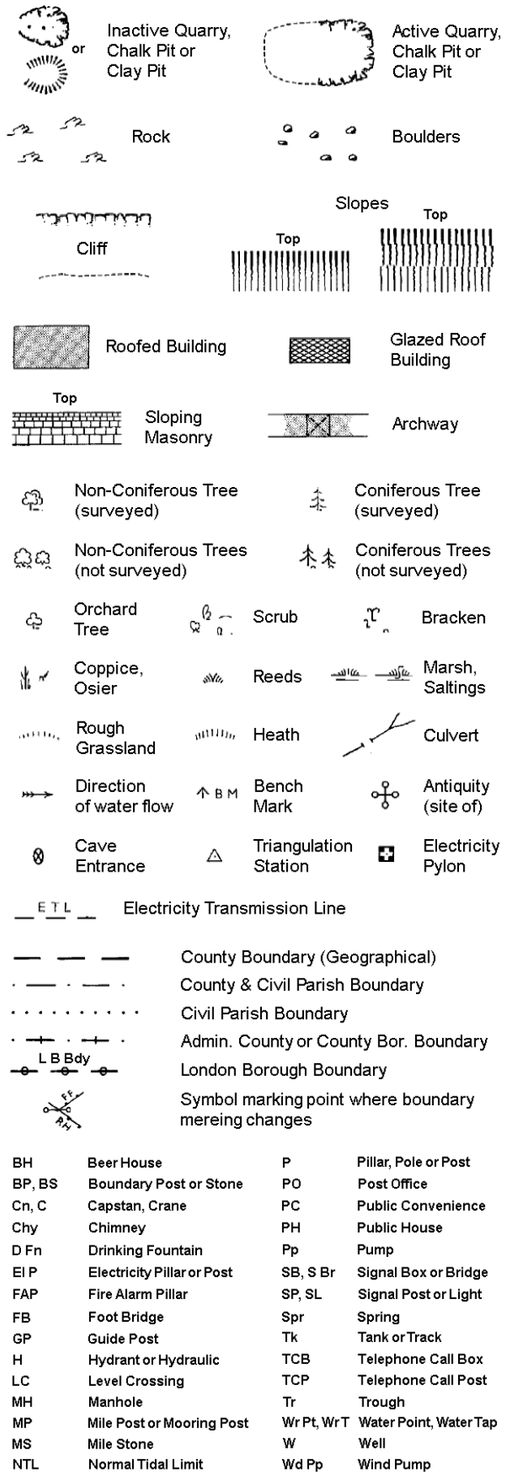
Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



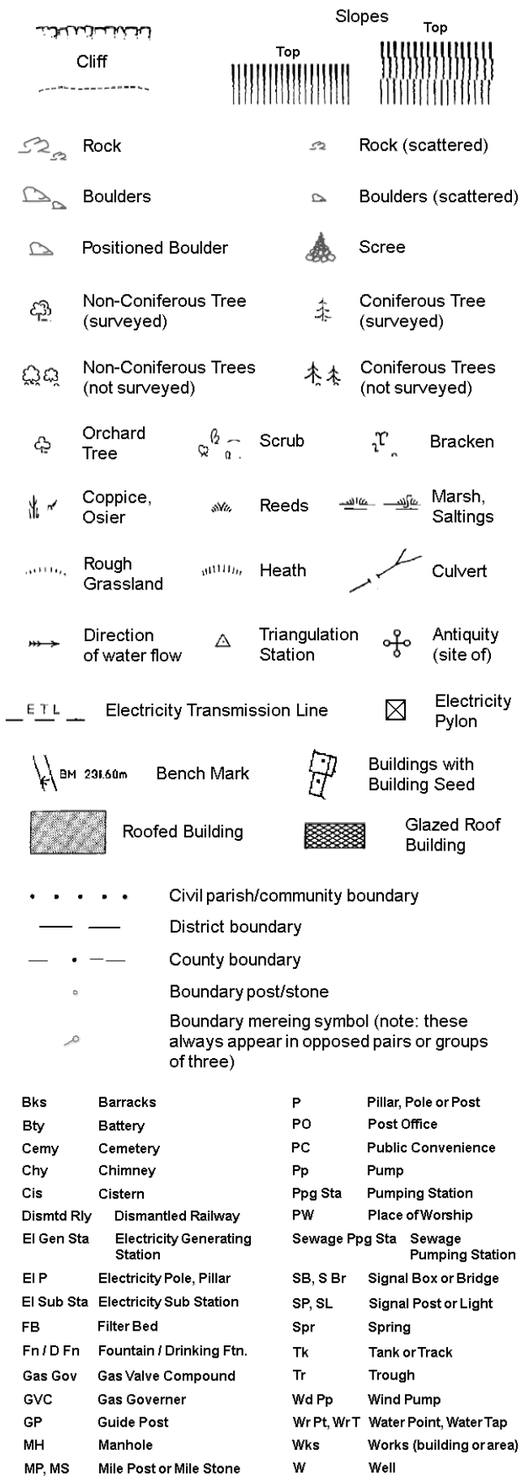
B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



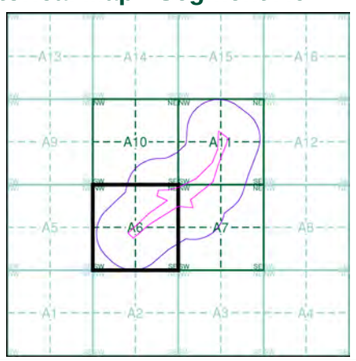
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1914	4
Ordnance Survey Plan	1:1,250	1948 - 1955	5
Ordnance Survey Plan	1:2,500	1951 - 1969	6
Ordnance Survey Plan	1:1,250	1951 - 1970	7
Ordnance Survey Plan	1:1,250	1954 - 1976	8
Ordnance Survey Plan	1:2,500	1959 - 1965	9
Additional SIMs	1:1,250	1964 - 1990	10
Ordnance Survey Plan	1:2,500	1965	11
Ordnance Survey Plan	1:1,250	1966 - 1972	12
Supply of Unpublished Survey Information	1:1,250	1975	13
Ordnance Survey Plan	1:1,250	1977	14
Additional SIMs	1:2,500	1990	15
Additional SIMs	1:1,250	1990 - 1992	16
Large-Scale National Grid Data	1:1,250	1993	17
Large-Scale National Grid Data	1:1,250	1994	18

Historical Map - Segment A6



Order Details

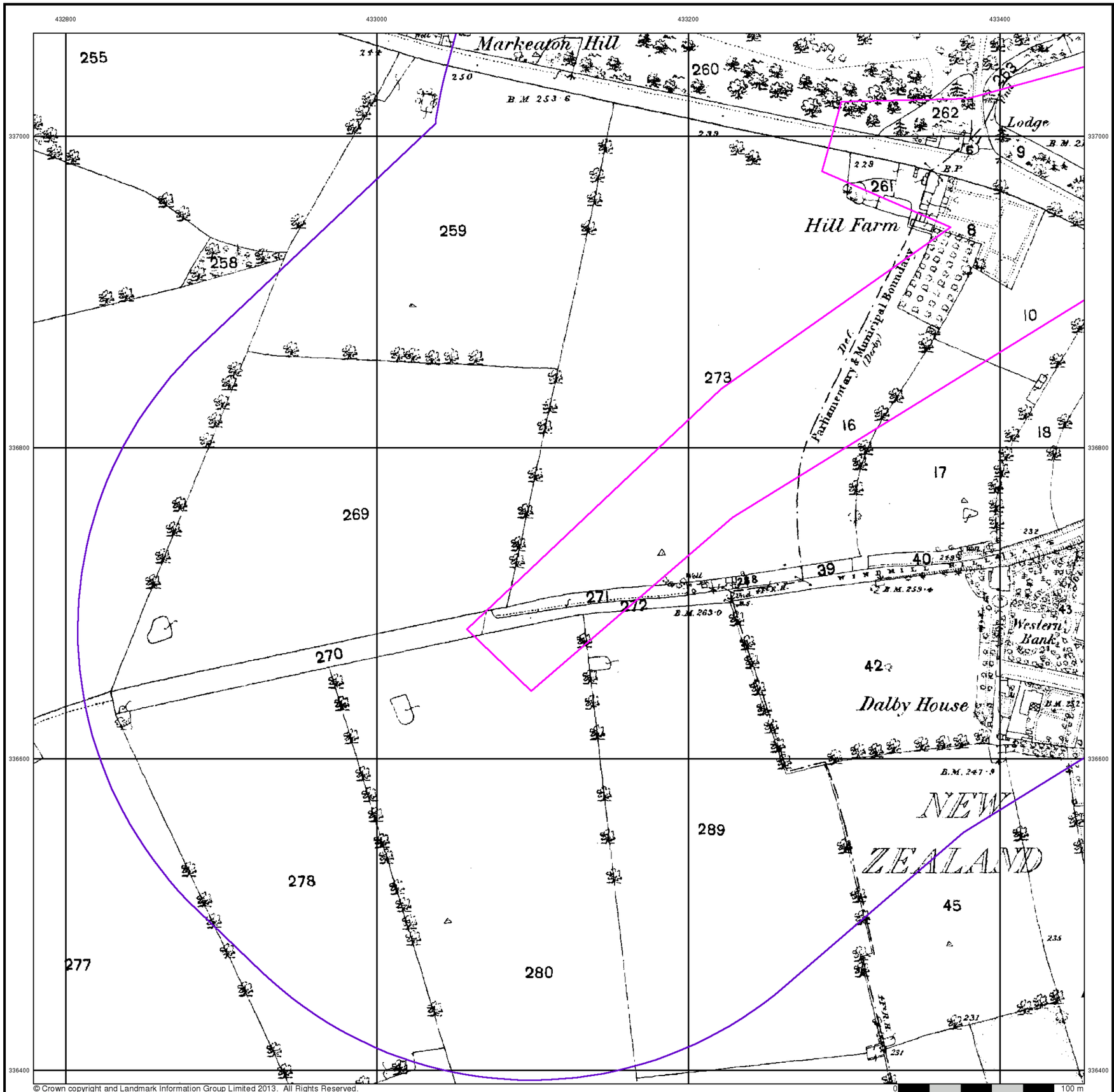
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	250

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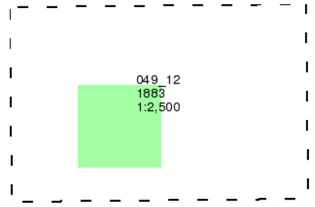
Derbyshire

Published 1883

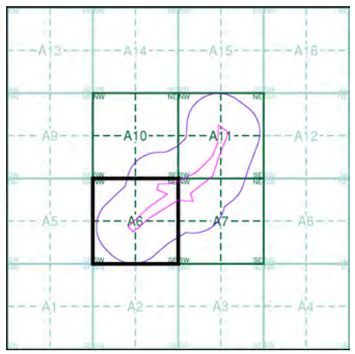
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A6



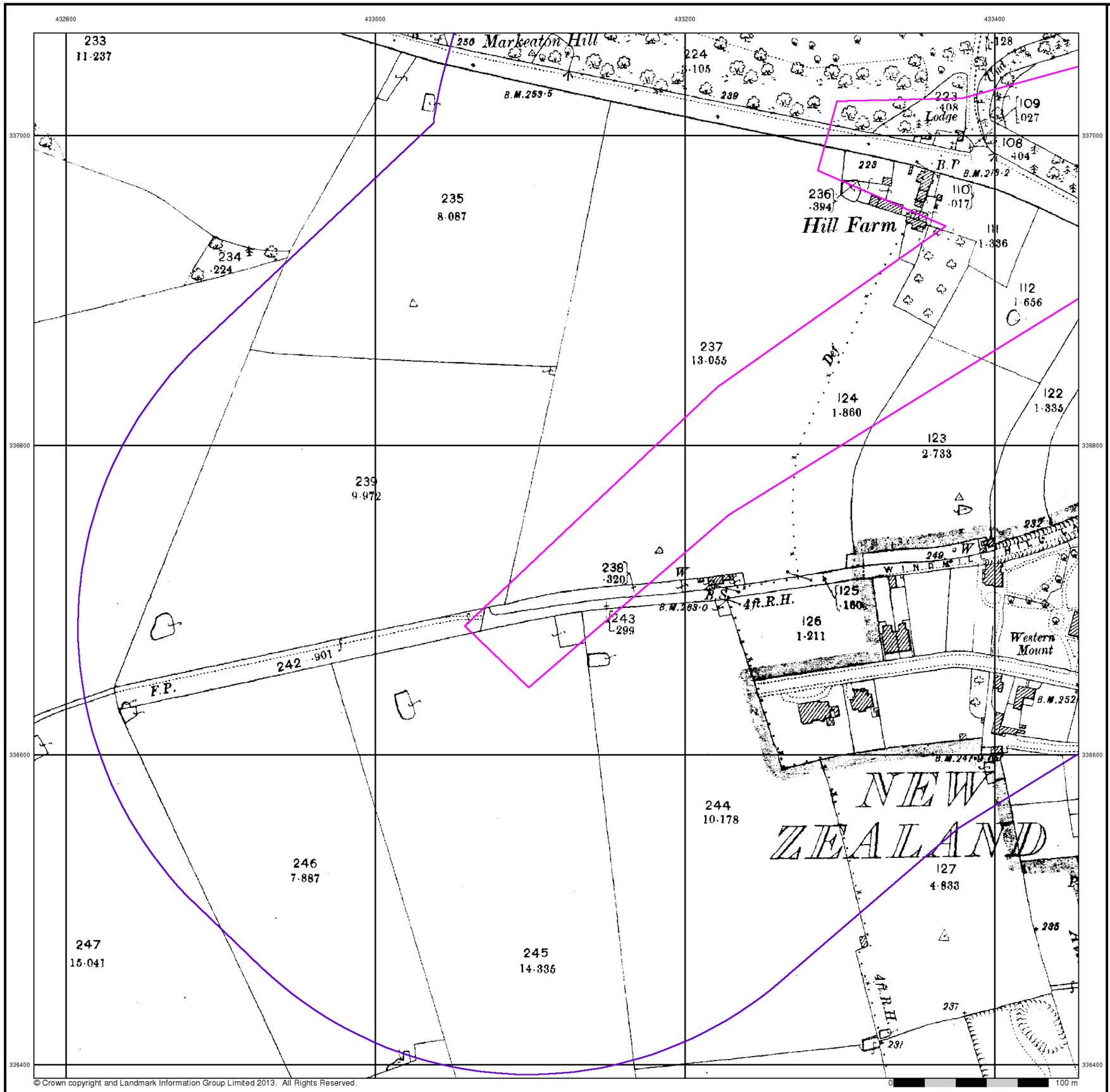
Order Details

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Customer Ref:	47071637.208APS
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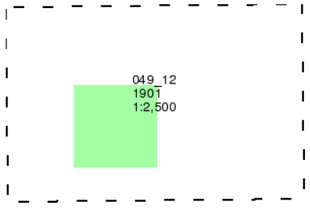
Derbyshire

Published 1901

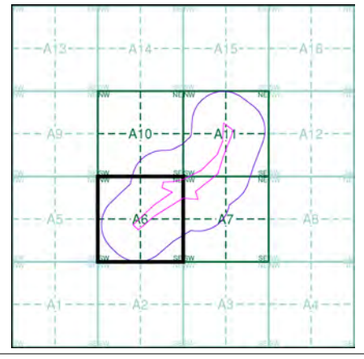
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A6



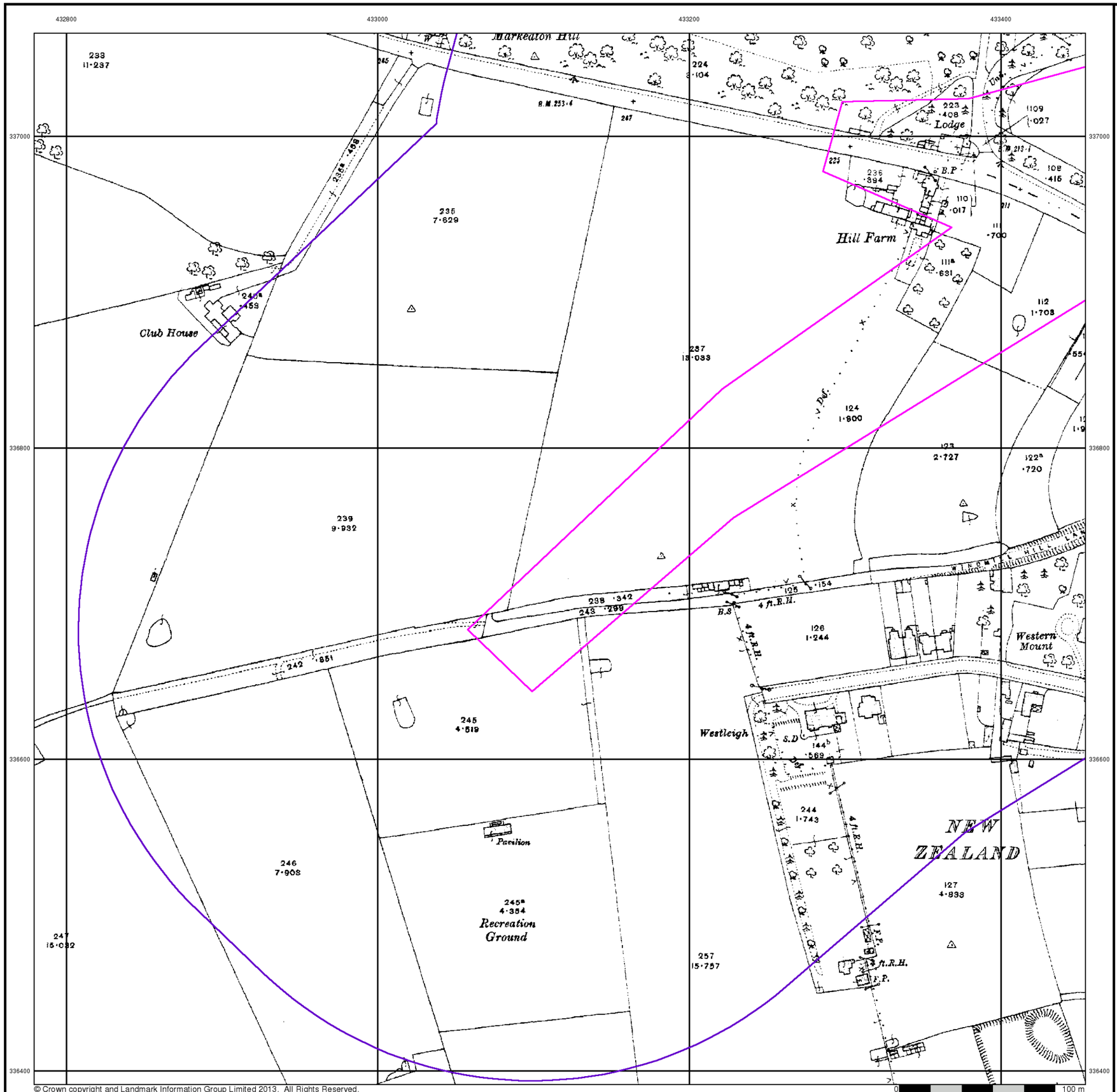
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Order Number:	60387091_1_1
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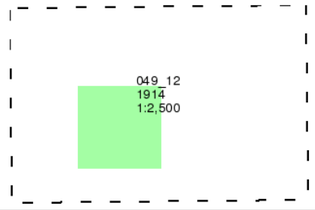
Derbyshire

Published 1914

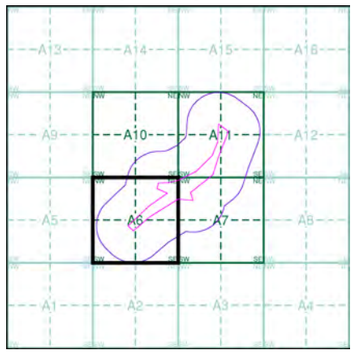
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

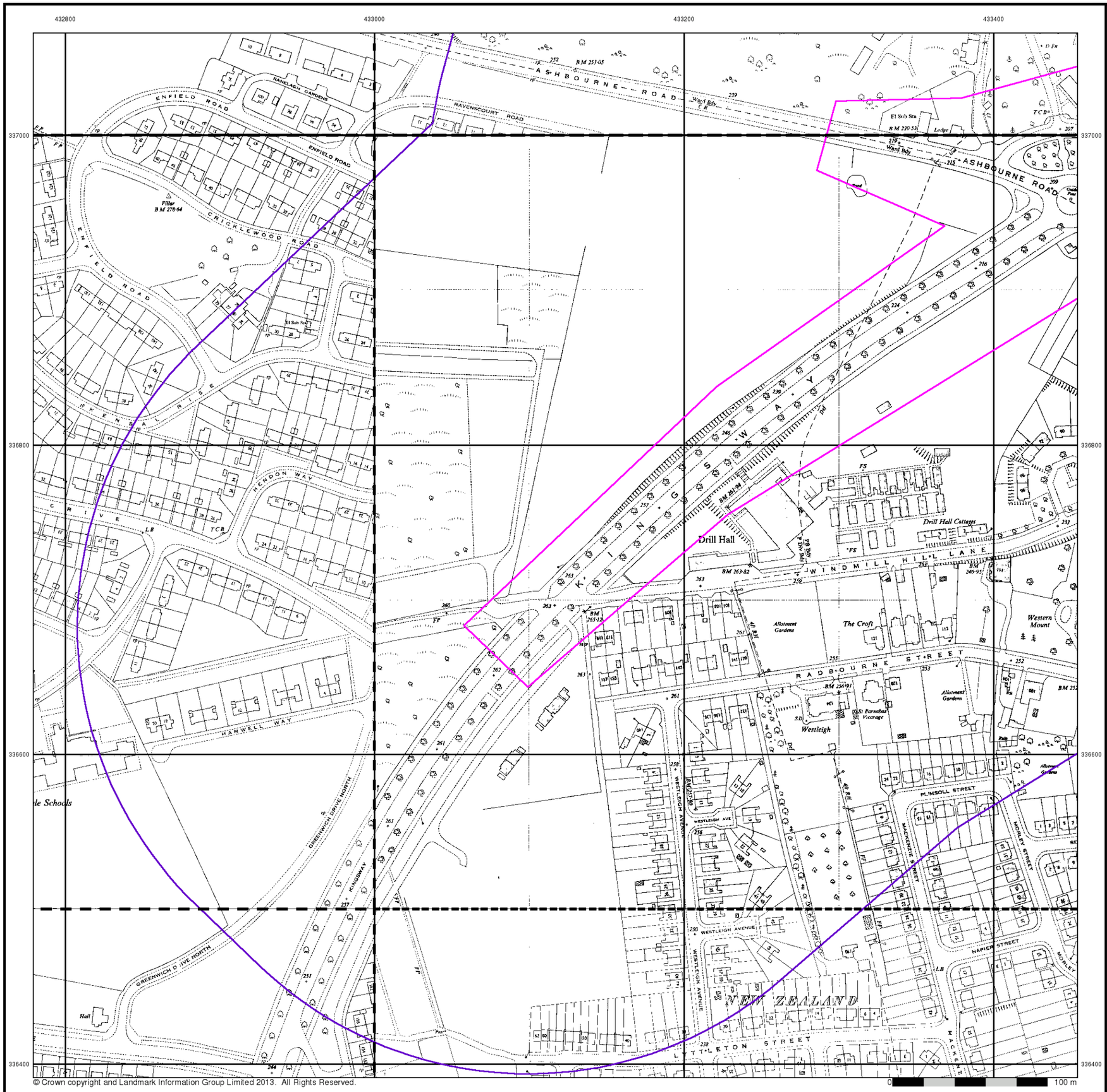
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
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Ordnance Survey Plan

Published 1948 - 1955

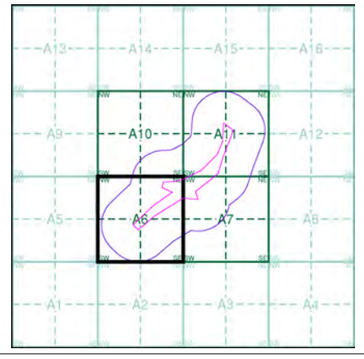
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3237SE 1955 1:1,250	SK3337SW 1955 1:1,250
SK3236NE 1955 1:1,250	SK3336NW 1948 1:1,250
SK3236SE 1955 1:1,250	SK3336SW 1948 1:1,250

Historical Map - Segment A6



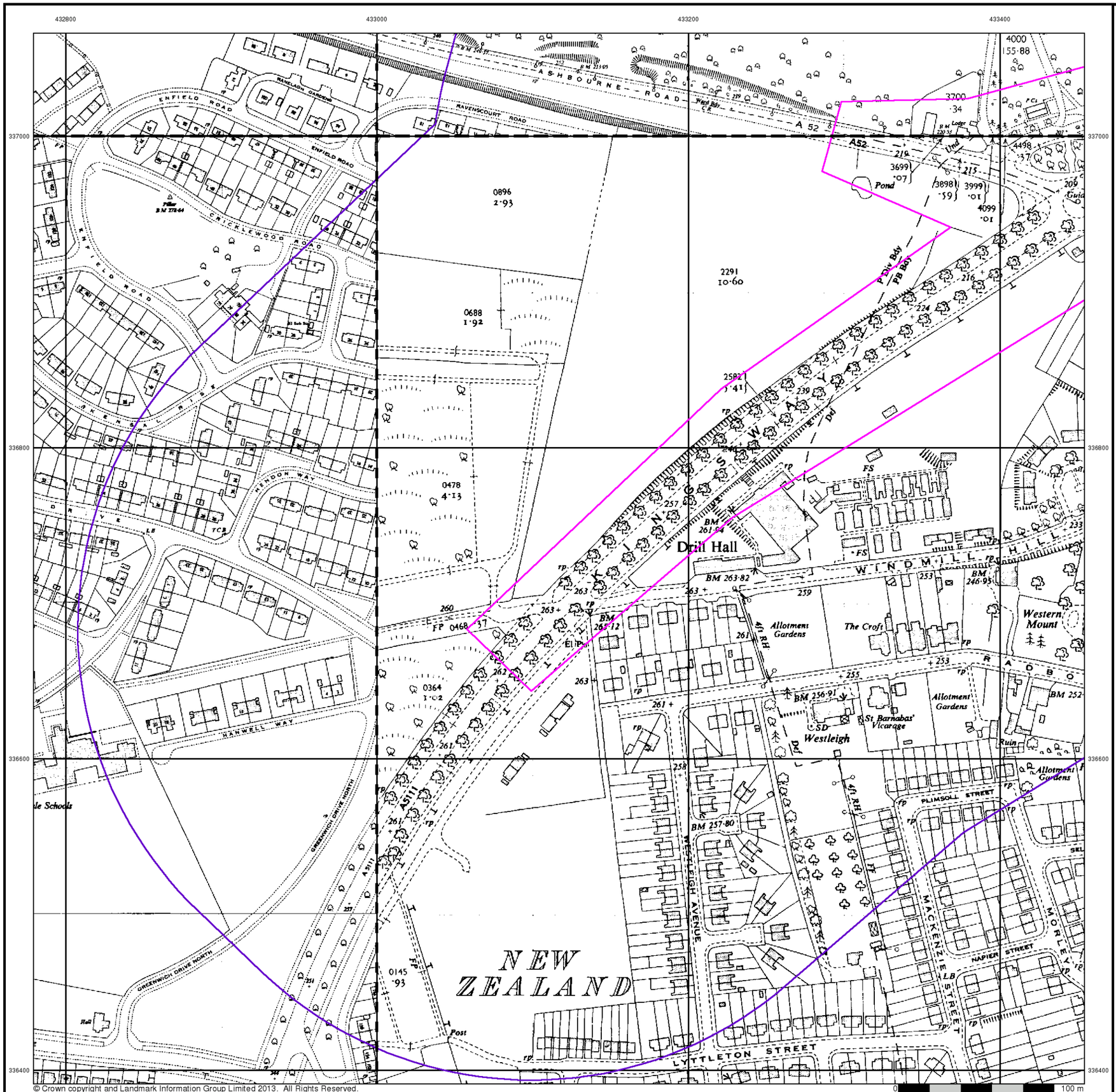
Order Details

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0 100 m

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Ordnance Survey Plan

Published 1951 - 1969

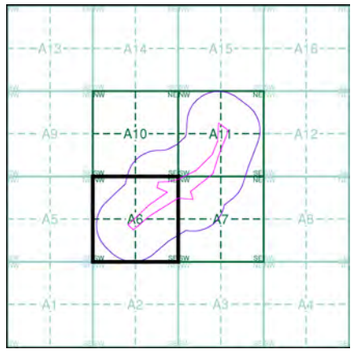
Source map scale - 1:2,500

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Map Name(s) and Date(s)

SK3237 1969 1:2,500	SK3337 1969 1:2,500
SK3236 1955 1:2,500	SK3336 1951 1:2,500

Historical Map - Segment A6



Order Details

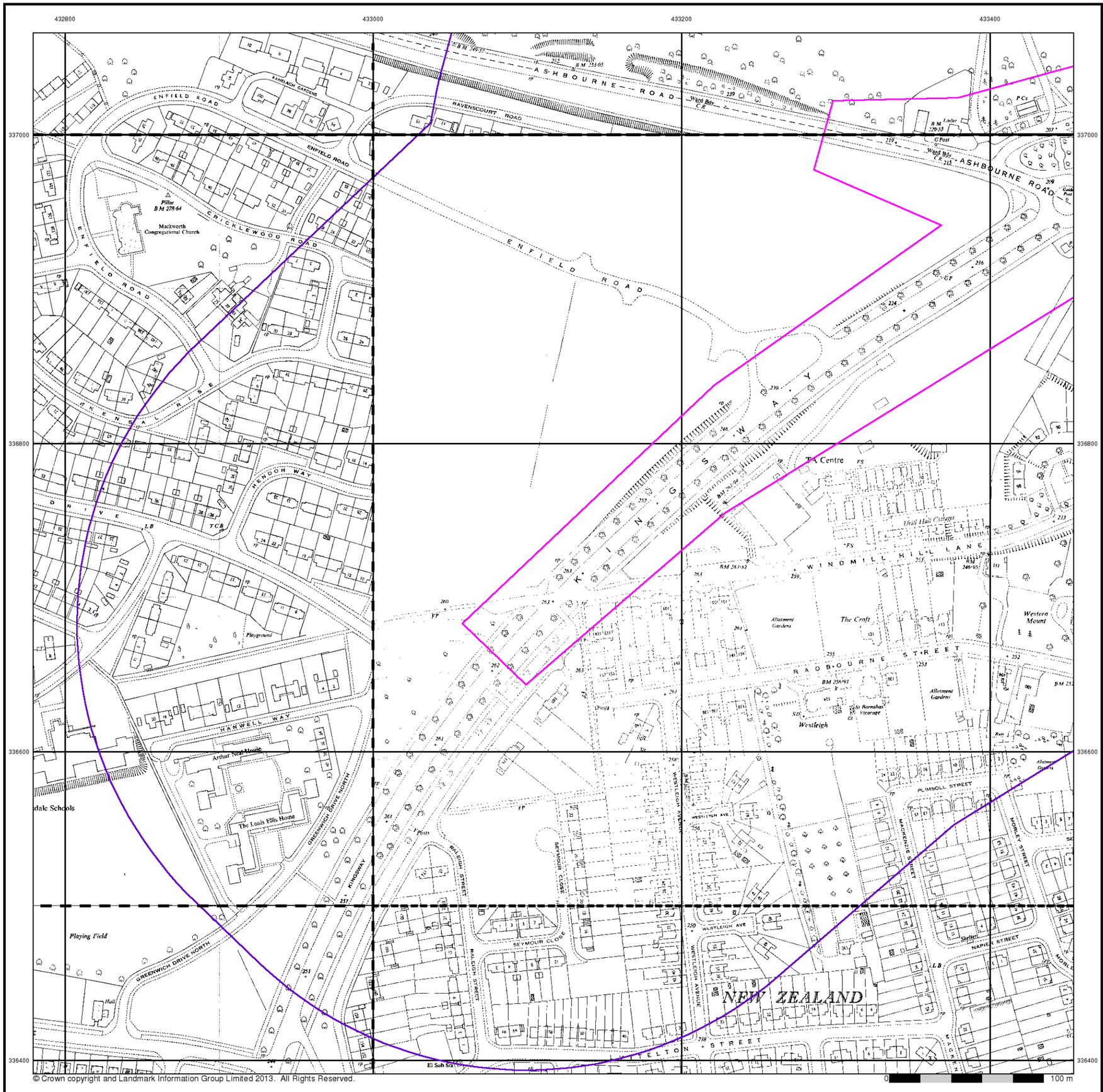
Order Number:	60387091_1_1
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Ordnance Survey Plan

Published 1951 - 1970

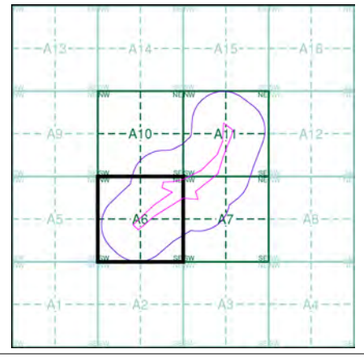
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3237SE 1970 1:1,250	SK3337SW 965 1:1,250
SK3236NE 1964 1:1,250	SK3336NW 951 1:1,250
SK3236SE 1958 1:1,250	SK3336SW 953 1:1,250

Historical Map - Segment A6



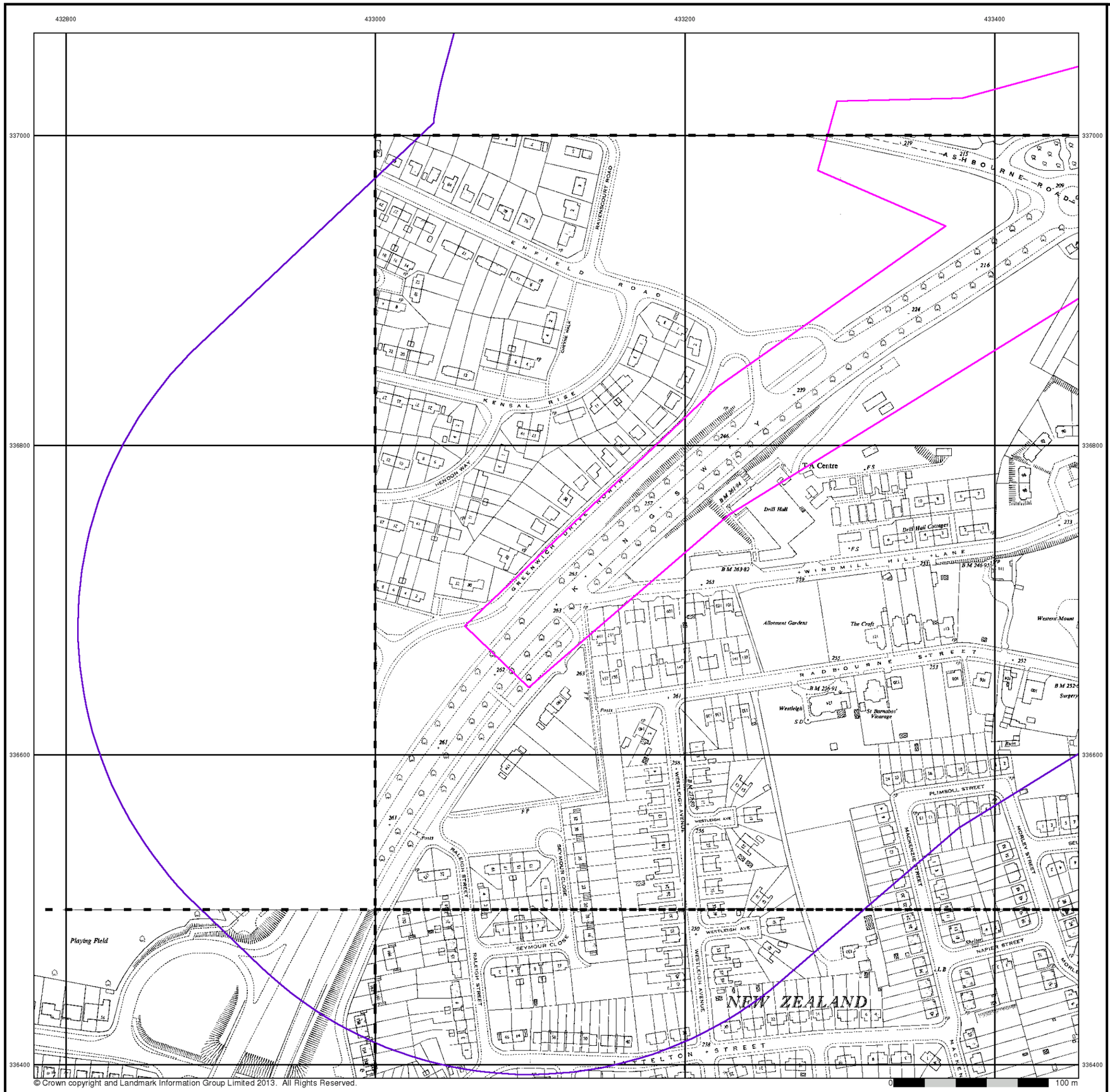
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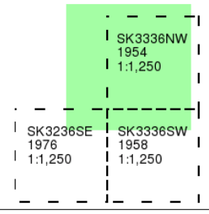
Ordnance Survey Plan

Published 1954 - 1976

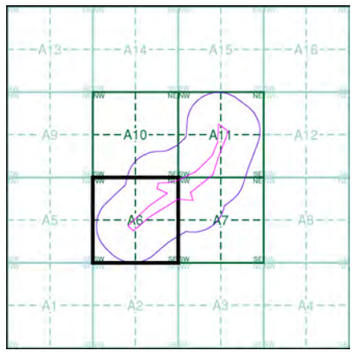
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Map Name(s) and Date(s)



Historical Map - Segment A6



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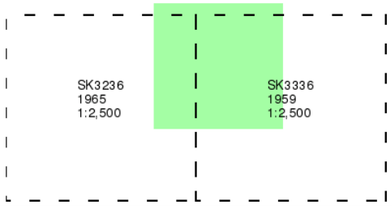
Ordnance Survey Plan

Published 1959 - 1965

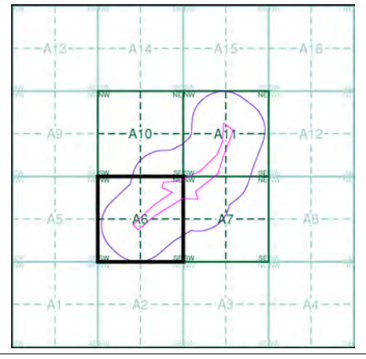
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Map Name(s) and Date(s)



Historical Map - Segment A6



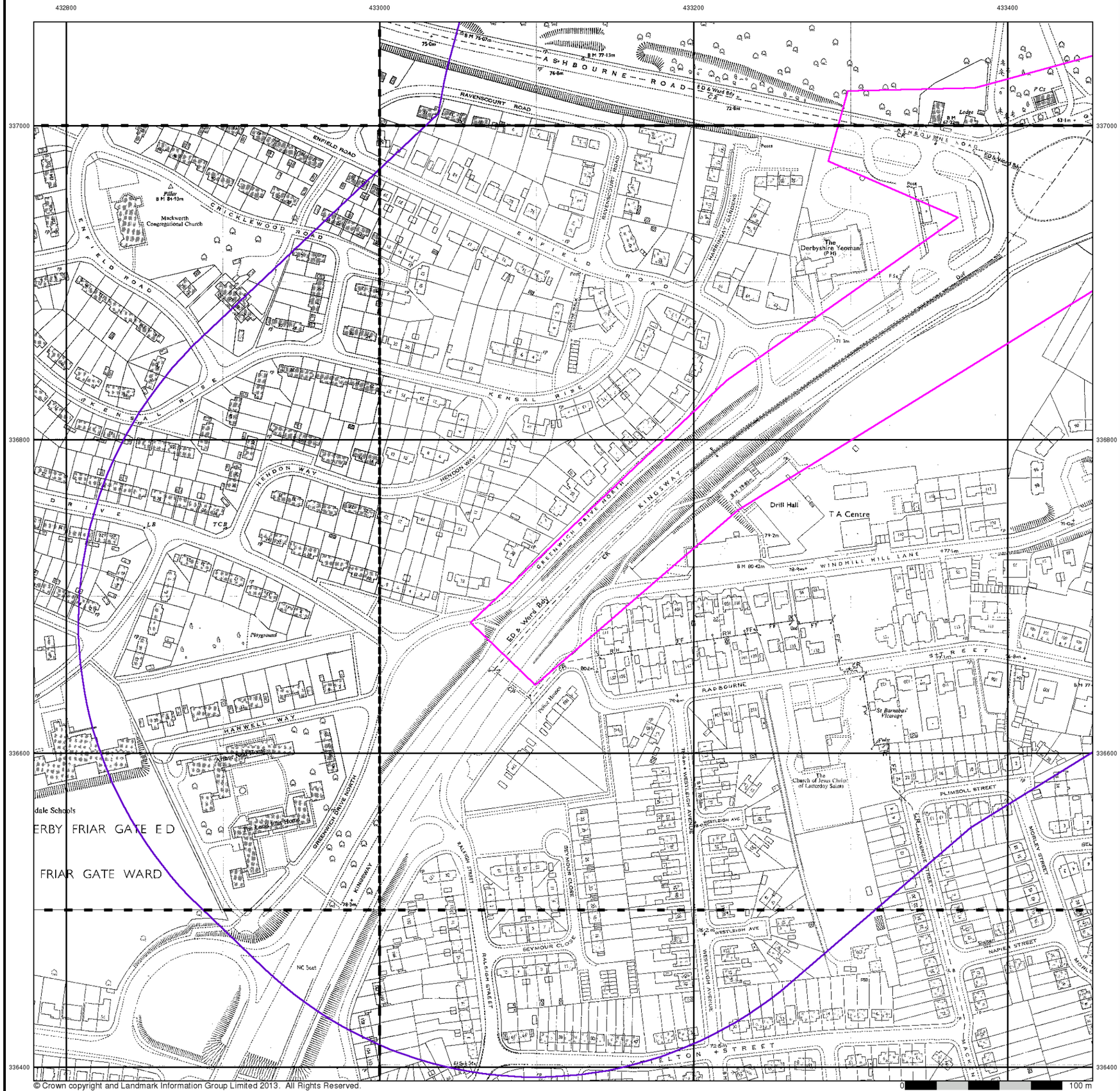
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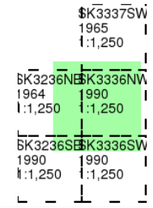
Additional SIMs

Published 1964 - 1990

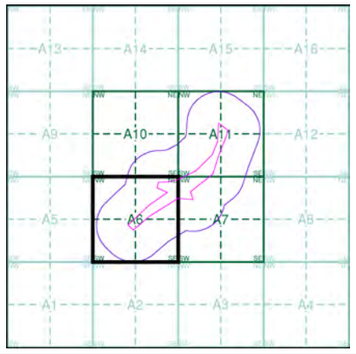
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

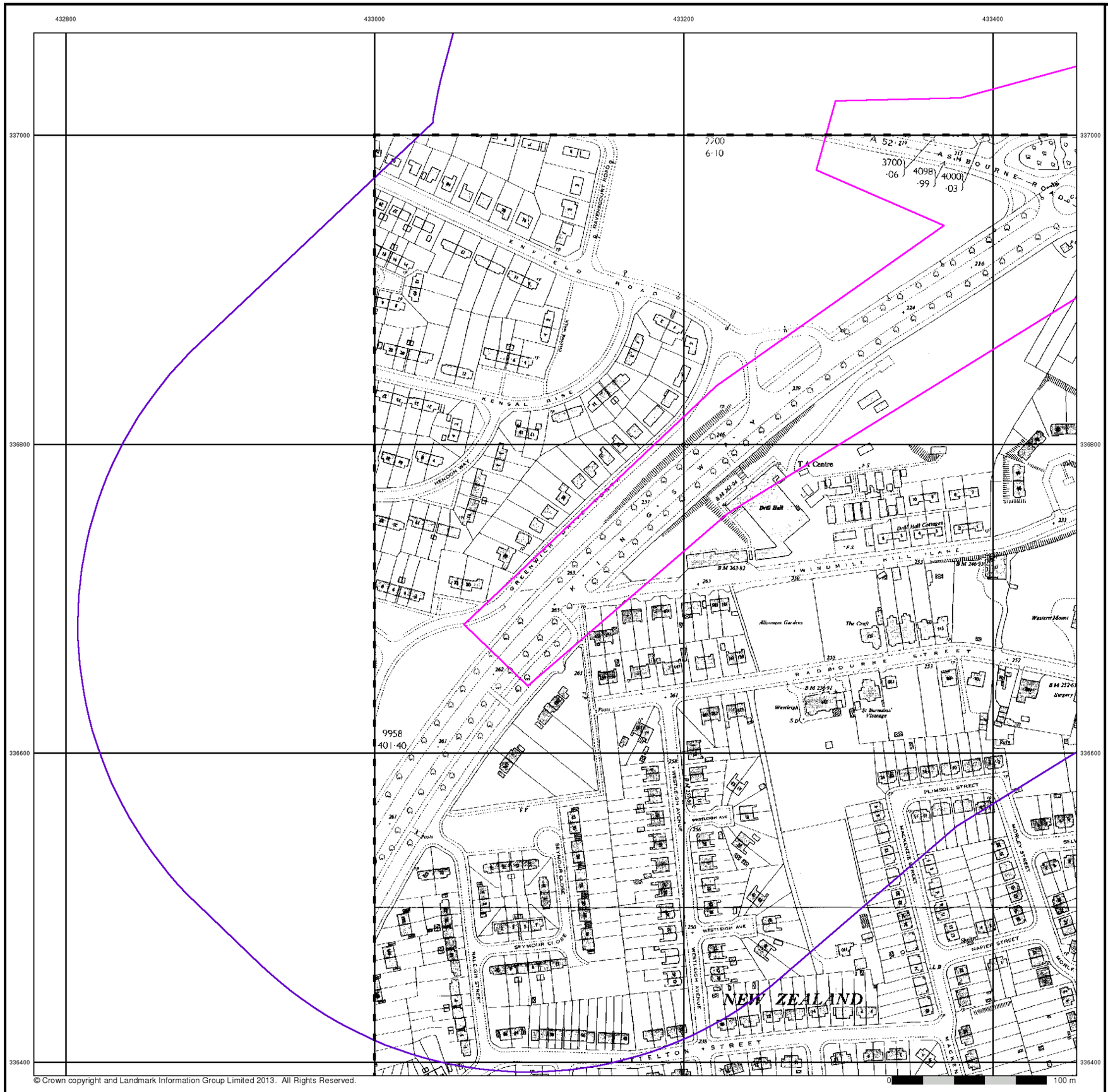
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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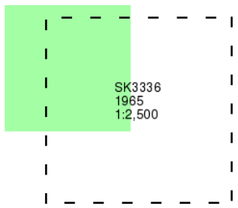
Ordnance Survey Plan

Published 1965

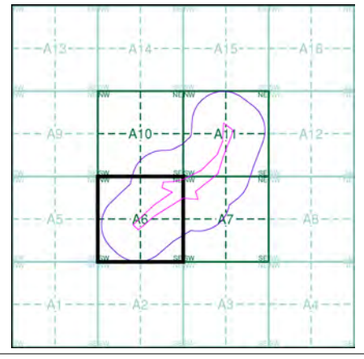
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A6



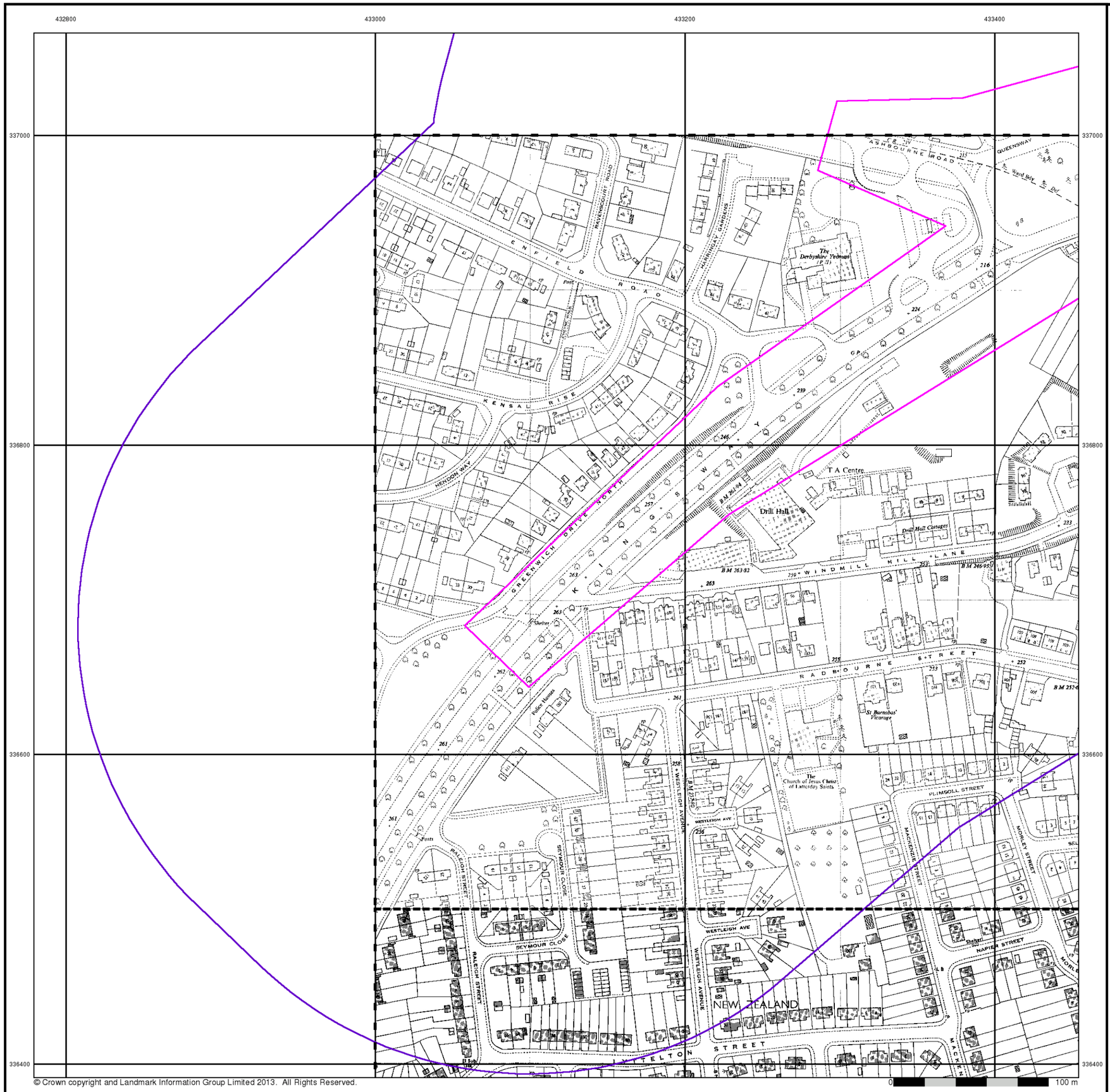
Order Details

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Customer Ref:	47071637.208APS
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Slice:	A
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Search Buffer (m):	250

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Ordnance Survey Plan

Published 1966 - 1972

Source map scale - 1:1,250

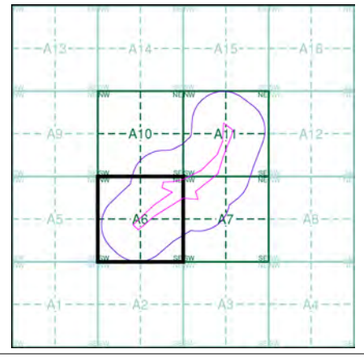
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3336NW
1966
1:1,250

SK3336SW
1972
1:1,250

Historical Map - Segment A6



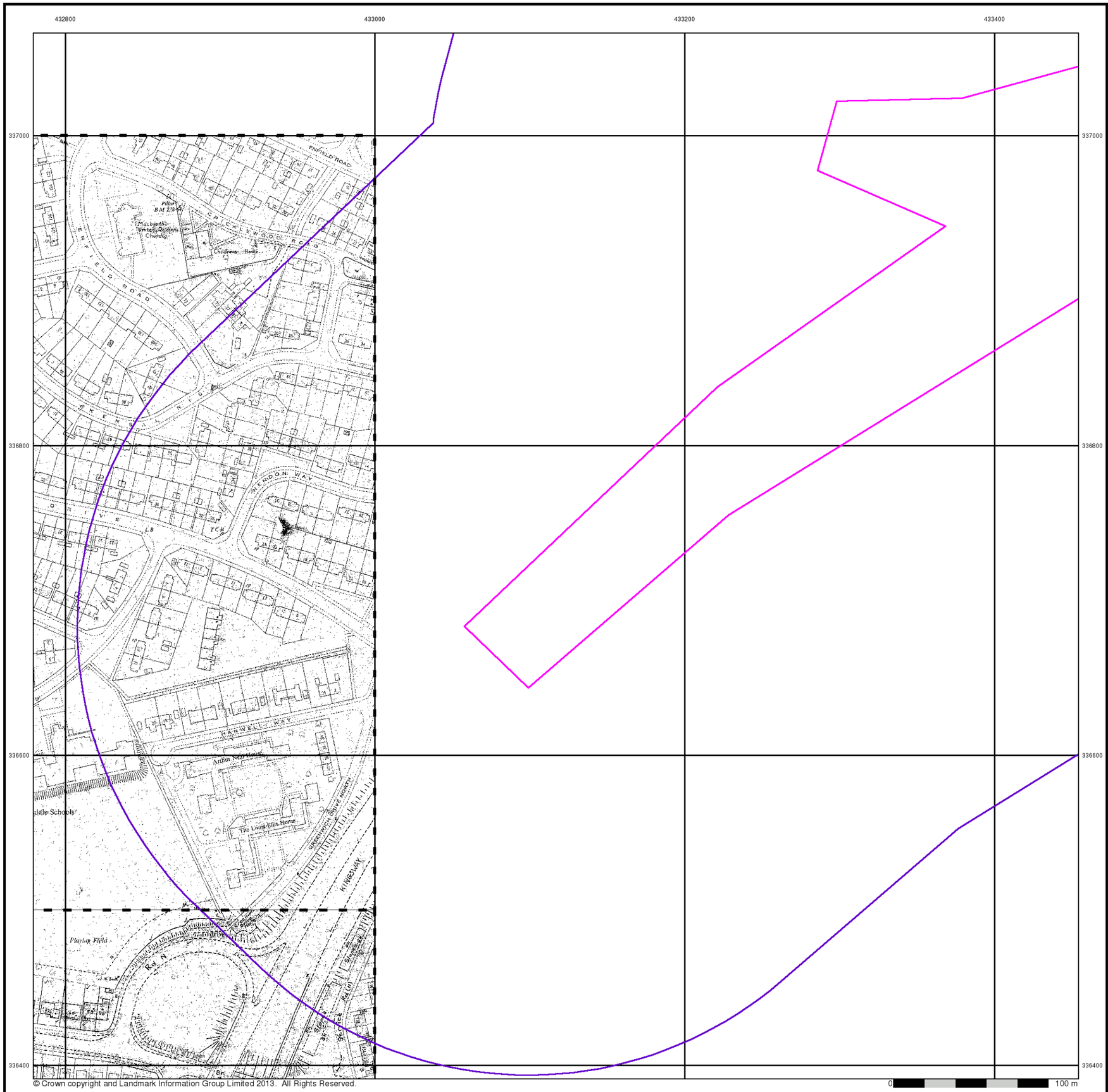
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National Grid Reference:	433480, 337040
Slice:	A
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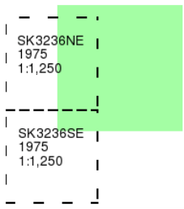
Supply of Unpublished Survey Information

Published 1975

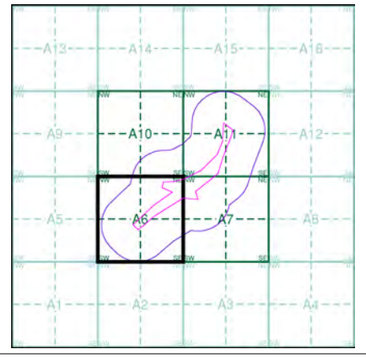
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

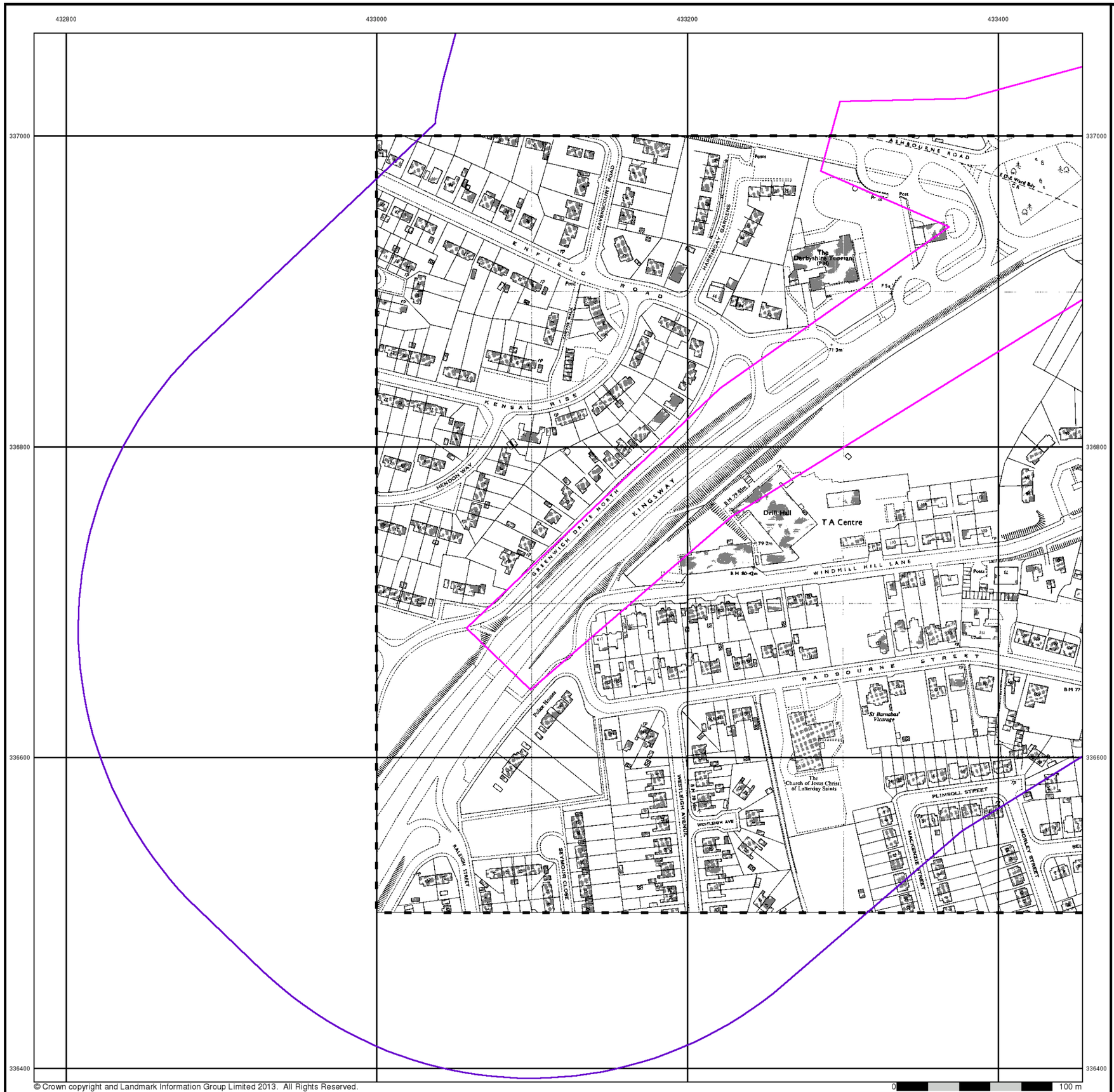
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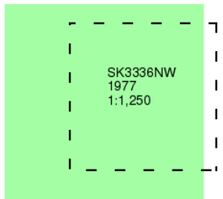
Ordnance Survey Plan

Published 1977

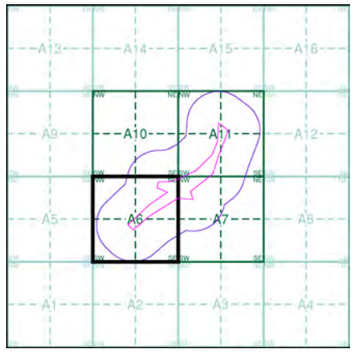
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

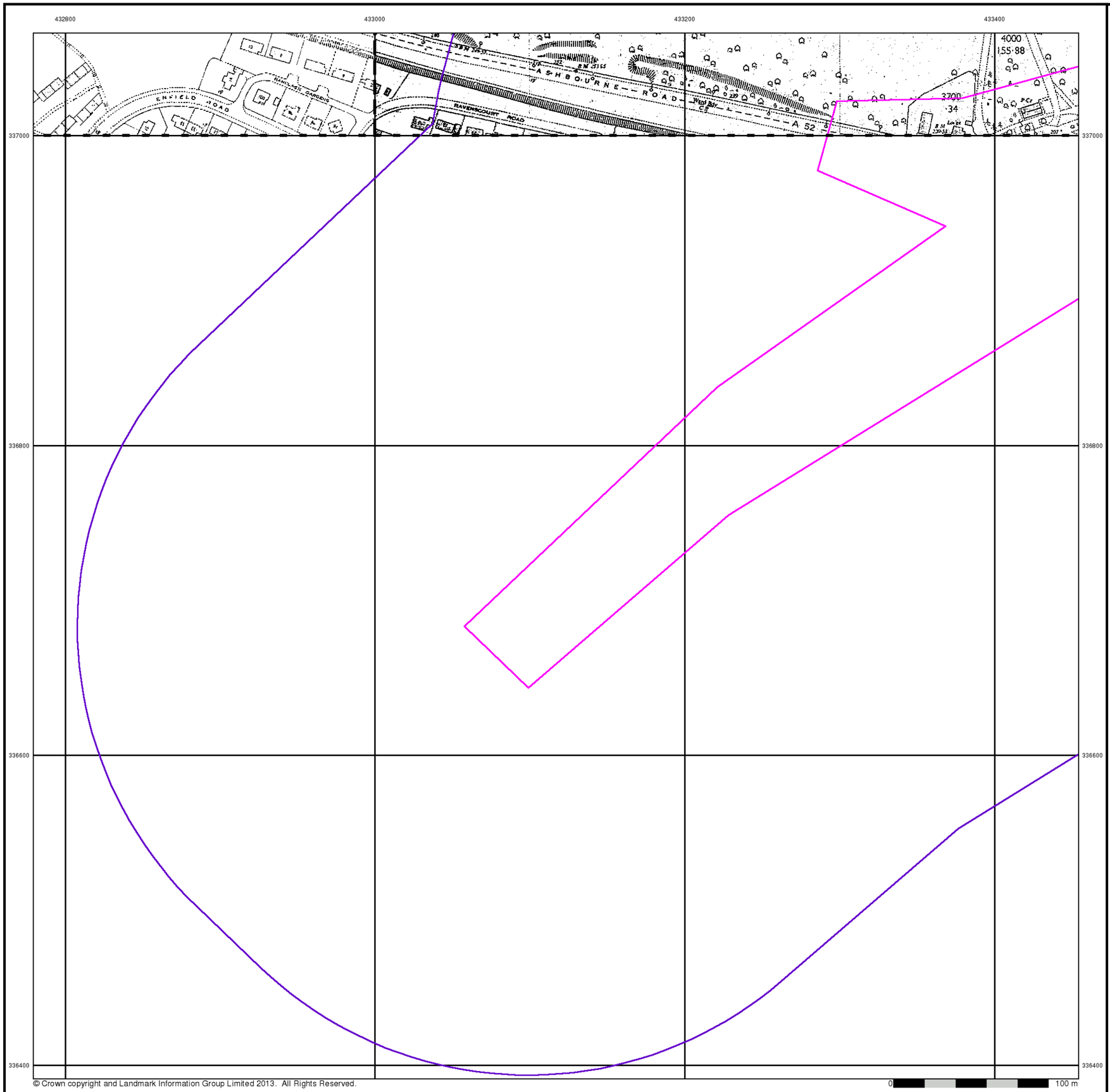
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
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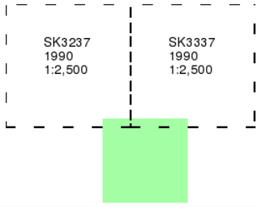
Additional SIMs

Published 1990

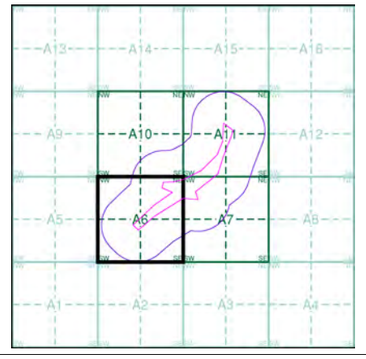
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A6



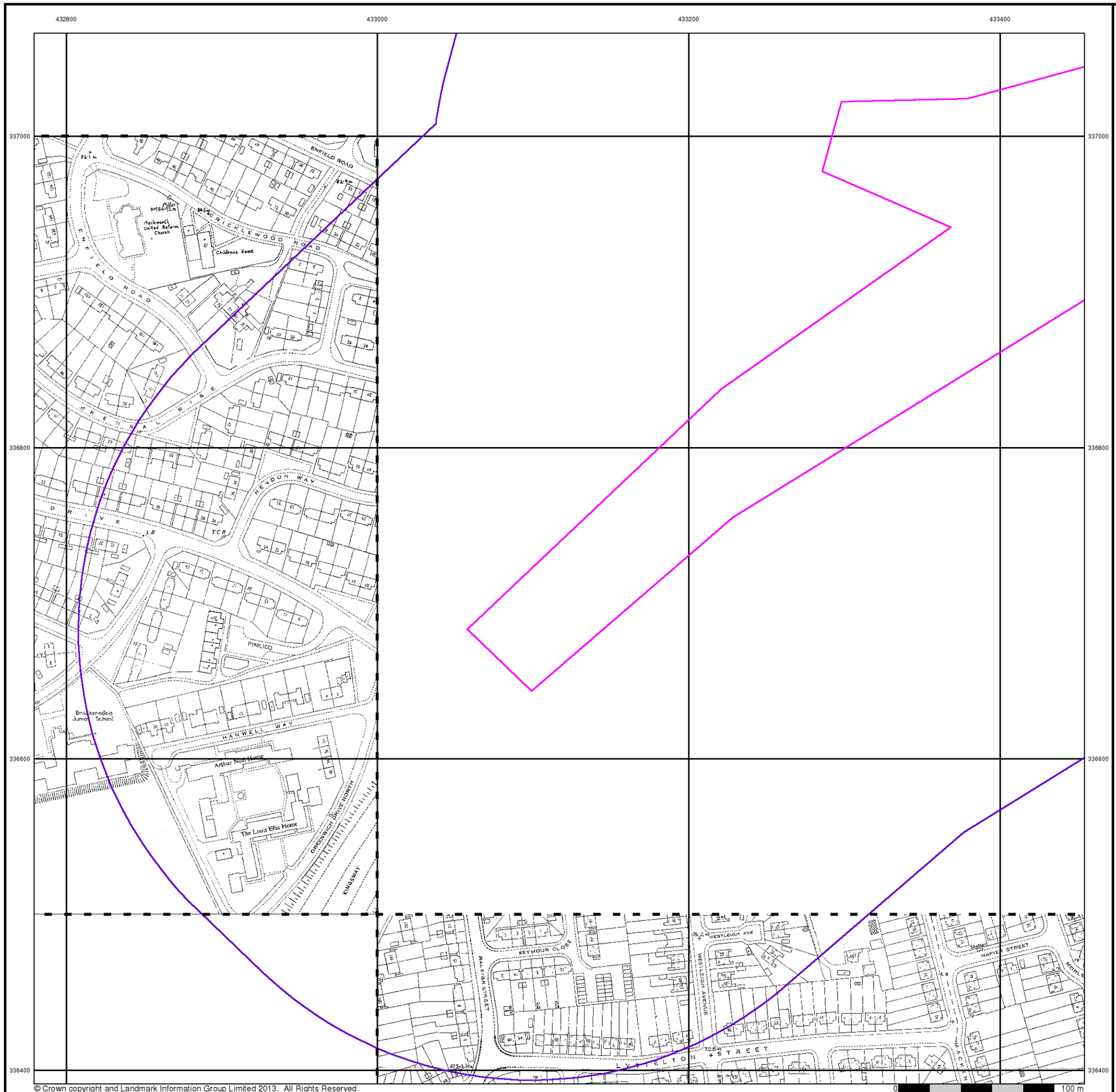
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National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
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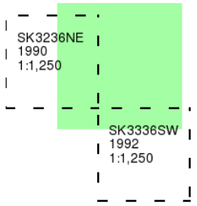
Additional SIMs

Published 1990 - 1992

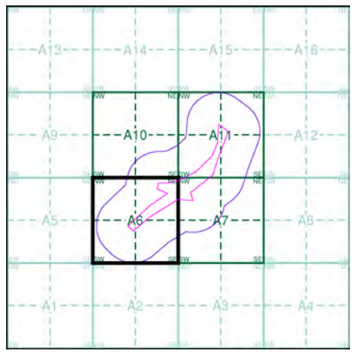
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

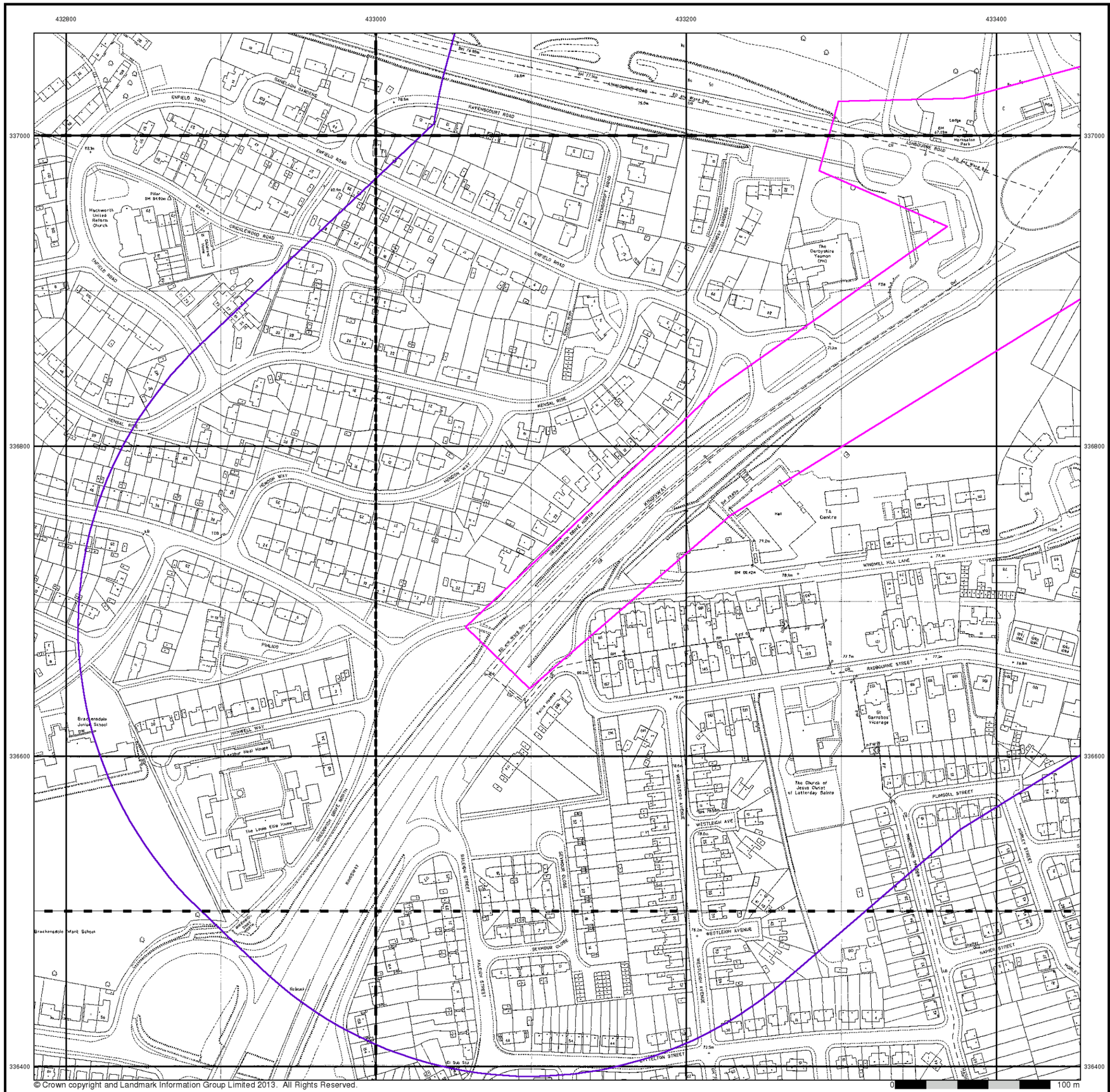
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
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Large-Scale National Grid Data

Published 1993

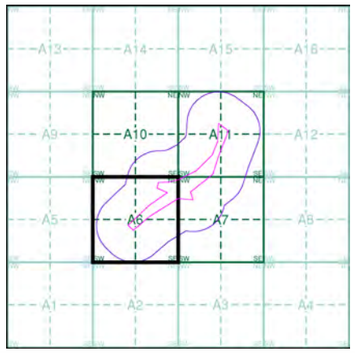
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3237SE 1993 1:1,250	SK3337SW 1993 1:1,250
SK3236NE 1993 1:1,250	SK3336NW 1993 1:1,250
SK3236SE 1993 1:1,250	SK3336SW 1993 1:1,250

Historical Map - Segment A6



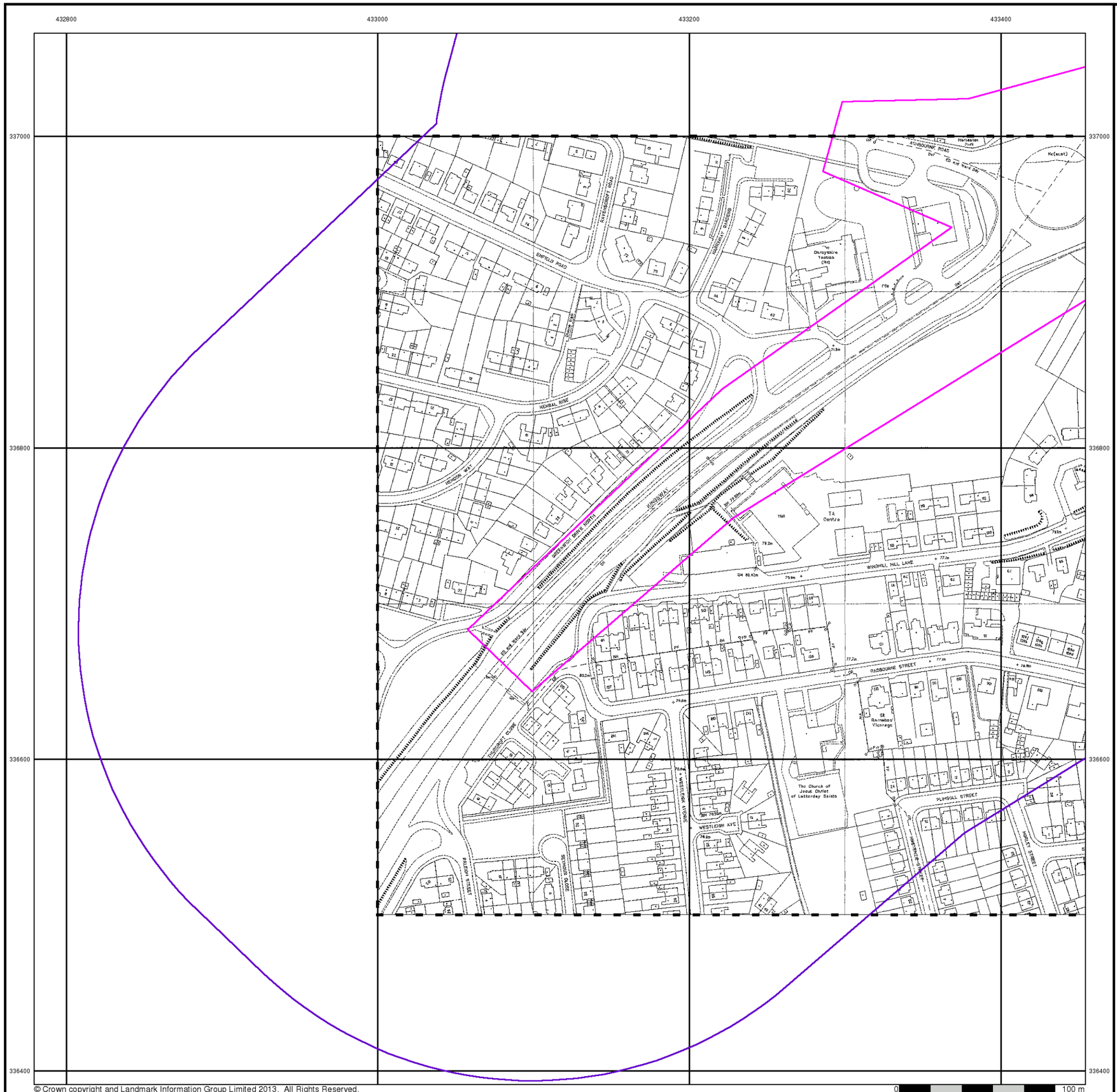
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Large-Scale National Grid Data

Published 1994

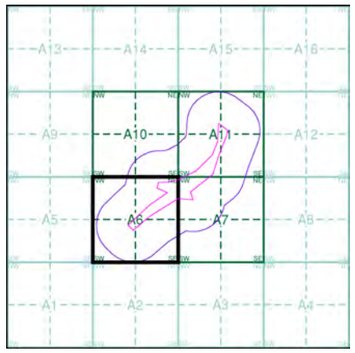
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3336NW
1994
1:1,250

Historical Map - Segment A6



Order Details

Order Number:	60387091_1_1
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Site Area (Ha):	10.53
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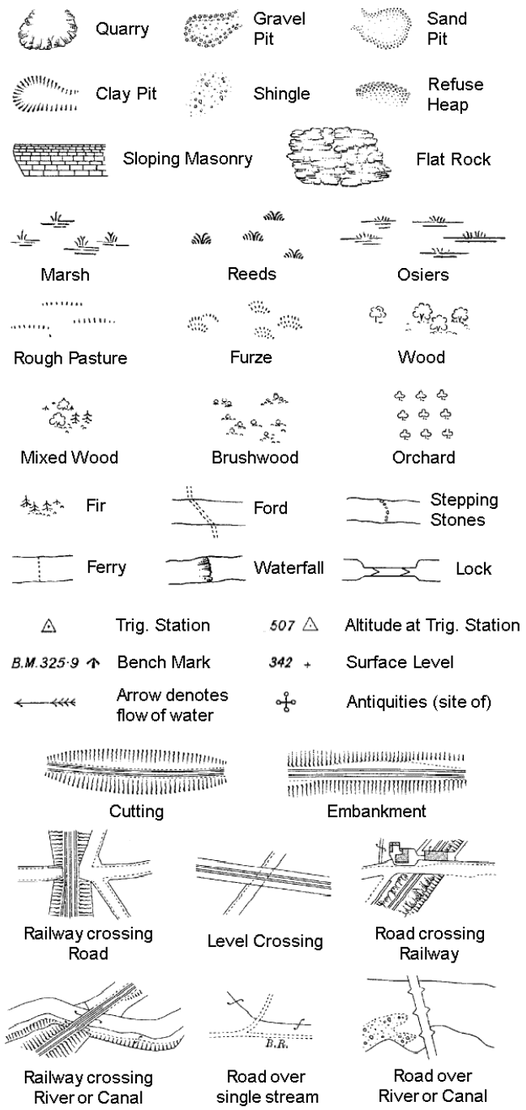
Site at, Derby, City of Derby

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Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)

County & Civil Parish Boundary

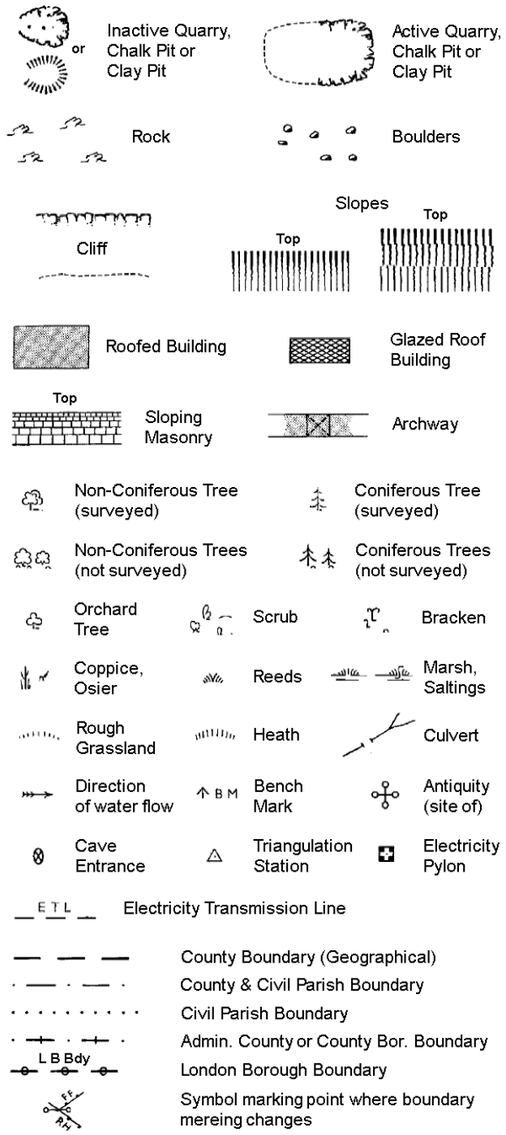
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

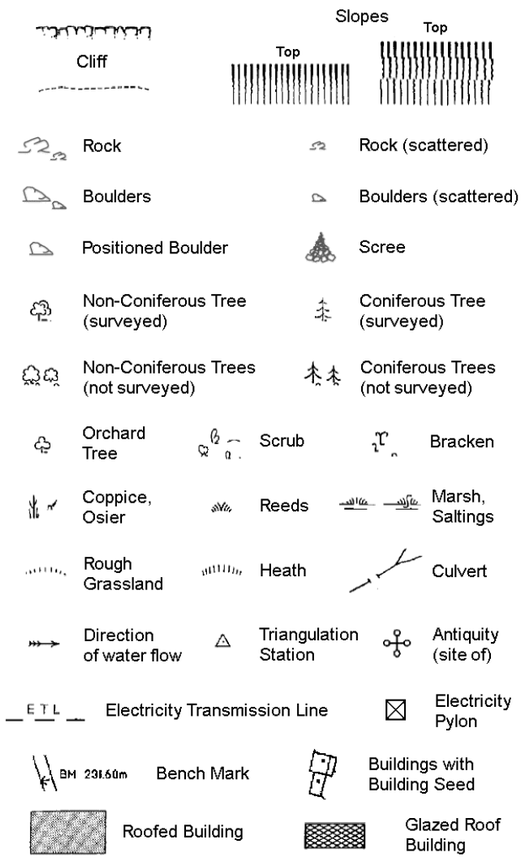
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

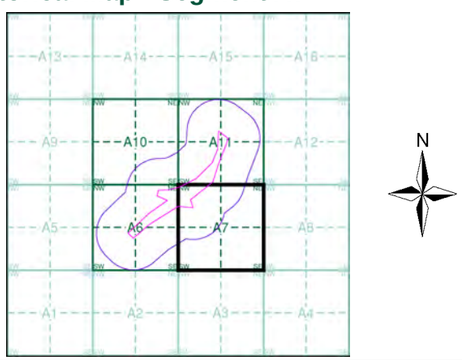
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1914	4
Ordnance Survey Plan	1:1,250	1948 - 1955	5
Ordnance Survey Plan	1:2,500	1951 - 1969	6
Ordnance Survey Plan	1:1,250	1951 - 1969	7
Ordnance Survey Plan	1:1,250	1951 - 1973	8
Ordnance Survey Plan	1:2,500	1959 - 1967	9
Ordnance Survey Plan	1:2,500	1965	10
Ordnance Survey Plan	1:1,250	1965 - 1972	11
Additional SIMs	1:1,250	1965 - 1990	12
Ordnance Survey Plan	1:1,250	1977	13
Additional SIMs	1:1,250	1978 - 1992	14
Additional SIMs	1:2,500	1990	15
Additional SIMs	1:1,250	1990 - 1992	16
Large-Scale National Grid Data	1:1,250	1993	17
Large-Scale National Grid Data	1:1,250	1994	18
Large-Scale National Grid Data	1:1,250	1996	19

Historical Map - Segment A7



Order Details

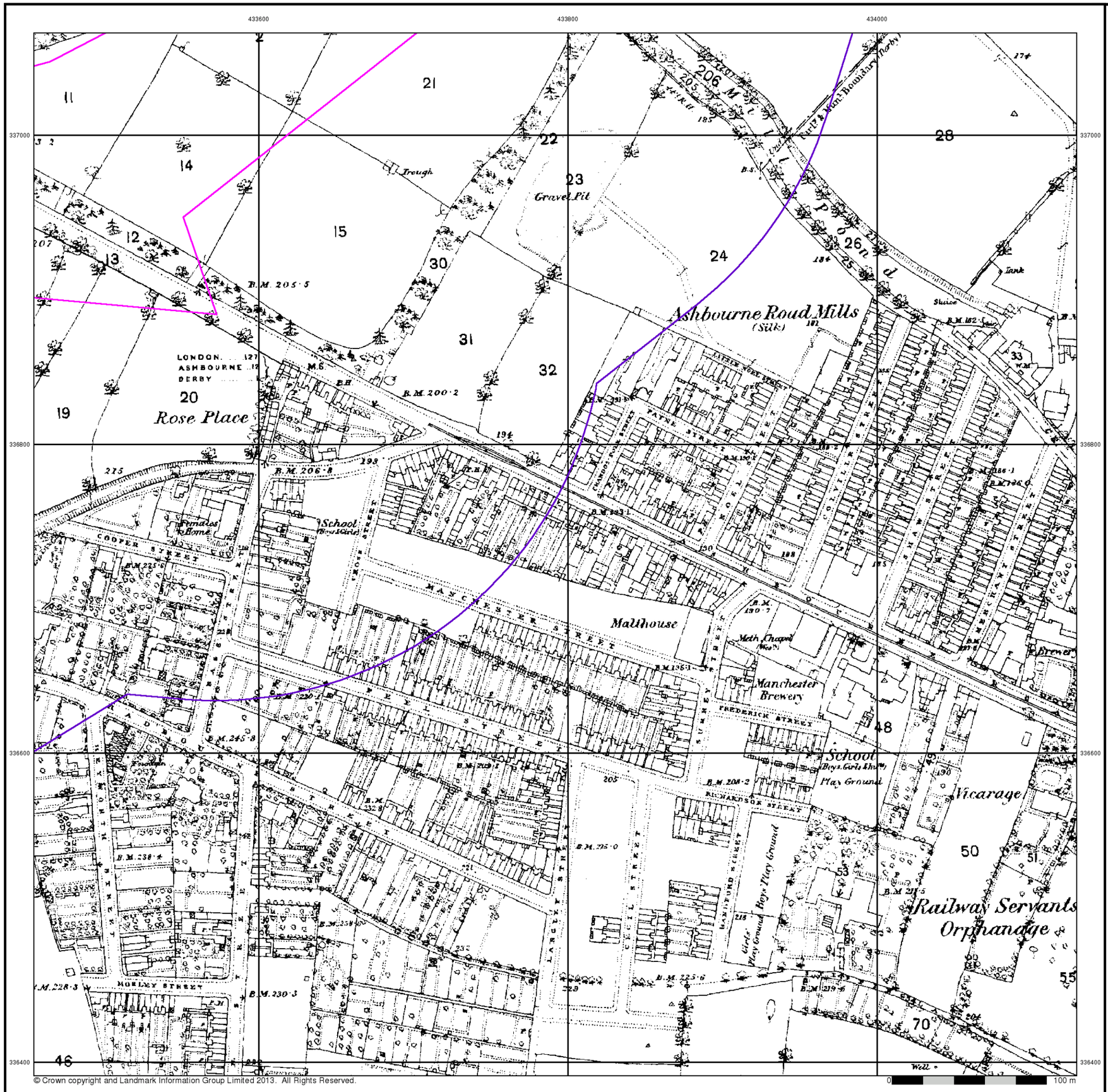
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	250

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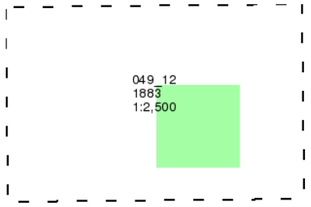
Derbyshire

Published 1883

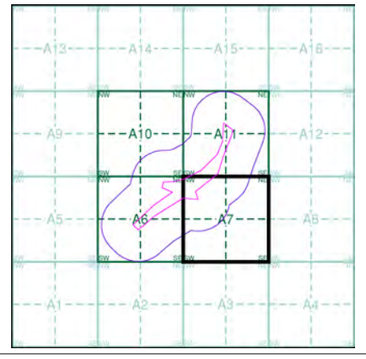
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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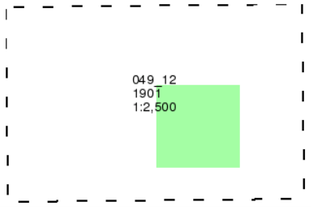
Derbyshire

Published 1901

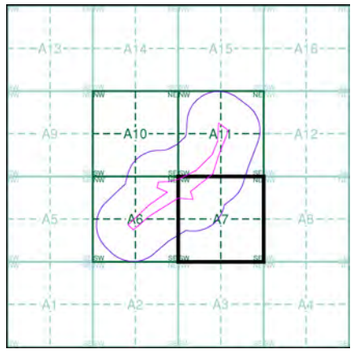
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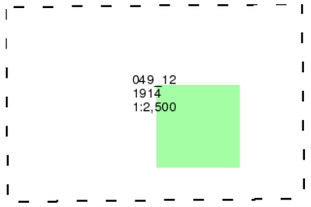
Derbyshire

Published 1914

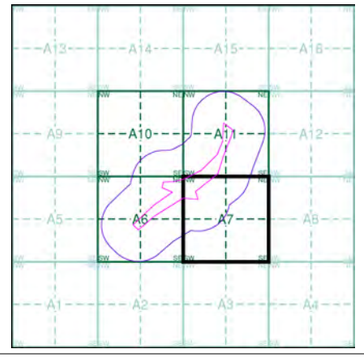
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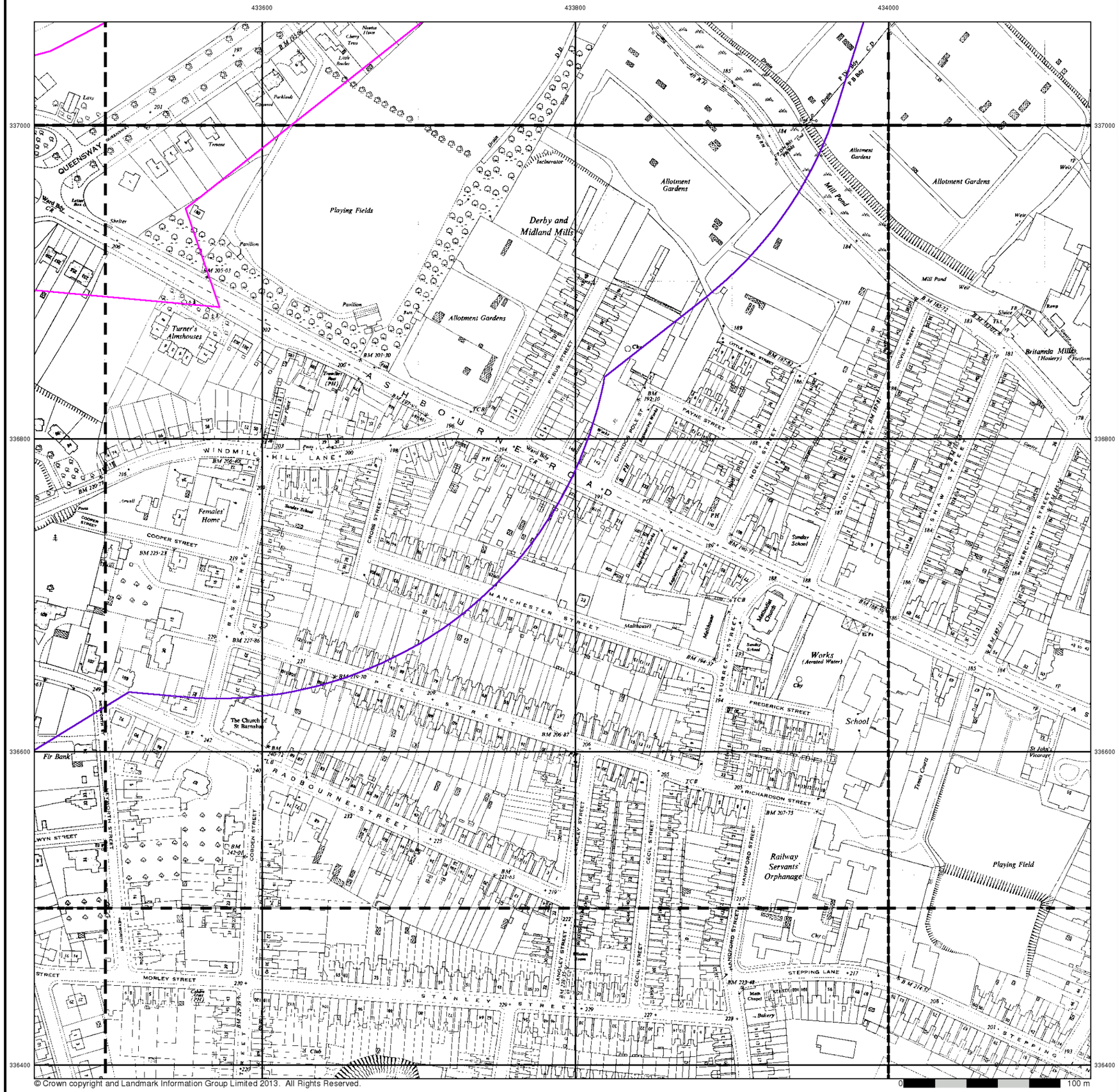
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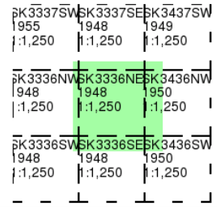
Ordnance Survey Plan

Published 1948 - 1955

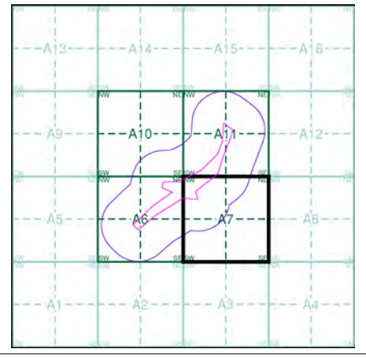
Source map scale - 1:1,250

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Map Name(s) and Date(s)



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Ordnance Survey Plan

Published 1951 - 1969

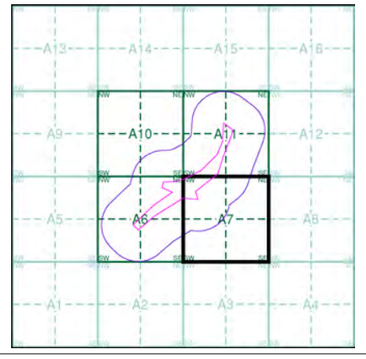
Source map scale - 1:2,500

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Map Name(s) and Date(s)

SK3337 1969 1:2,500	SK3437 1952 1:2,500
SK3336 1951 1:2,500	SK3436 1951 1:2,500

Historical Map - Segment A7



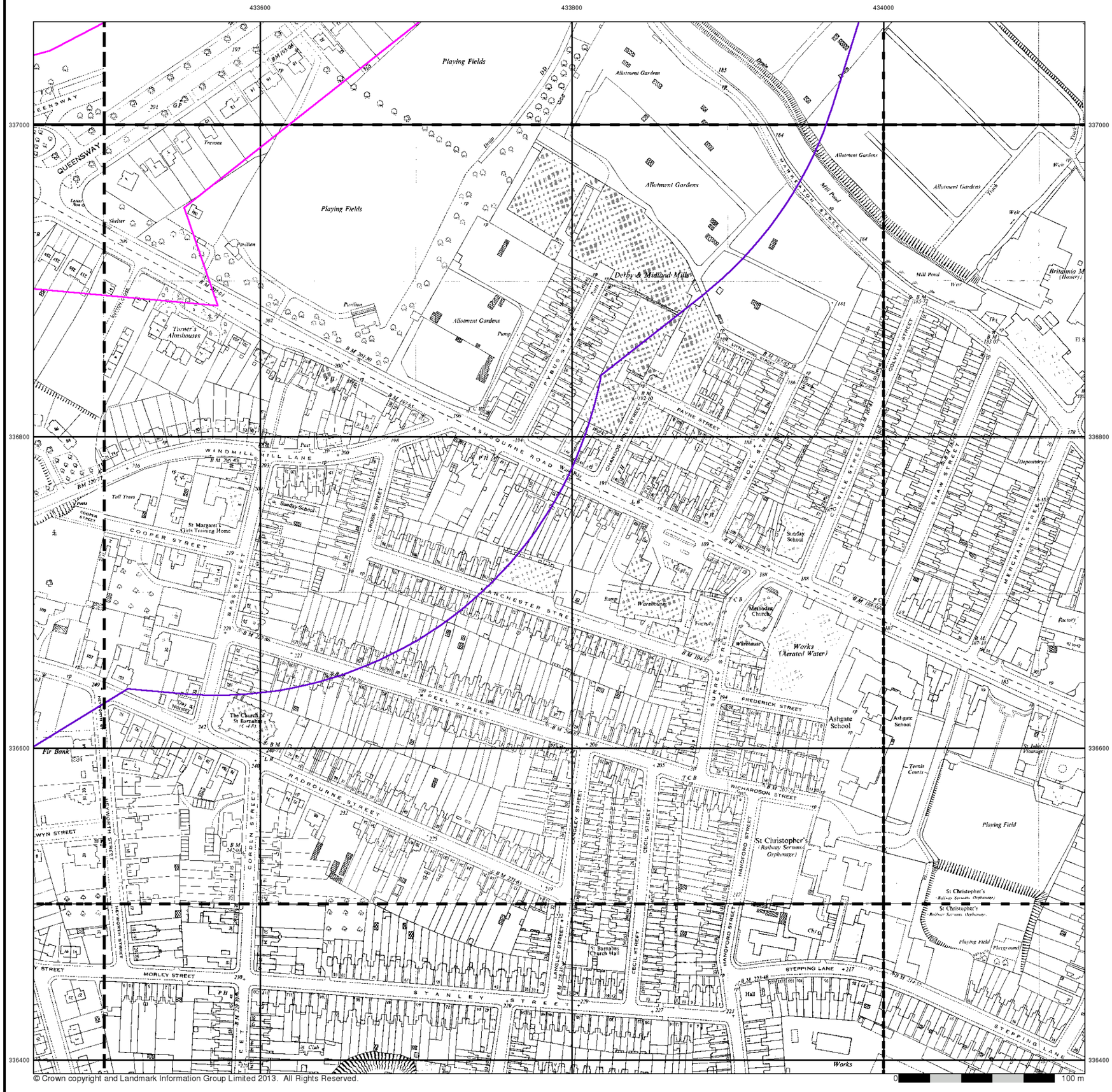
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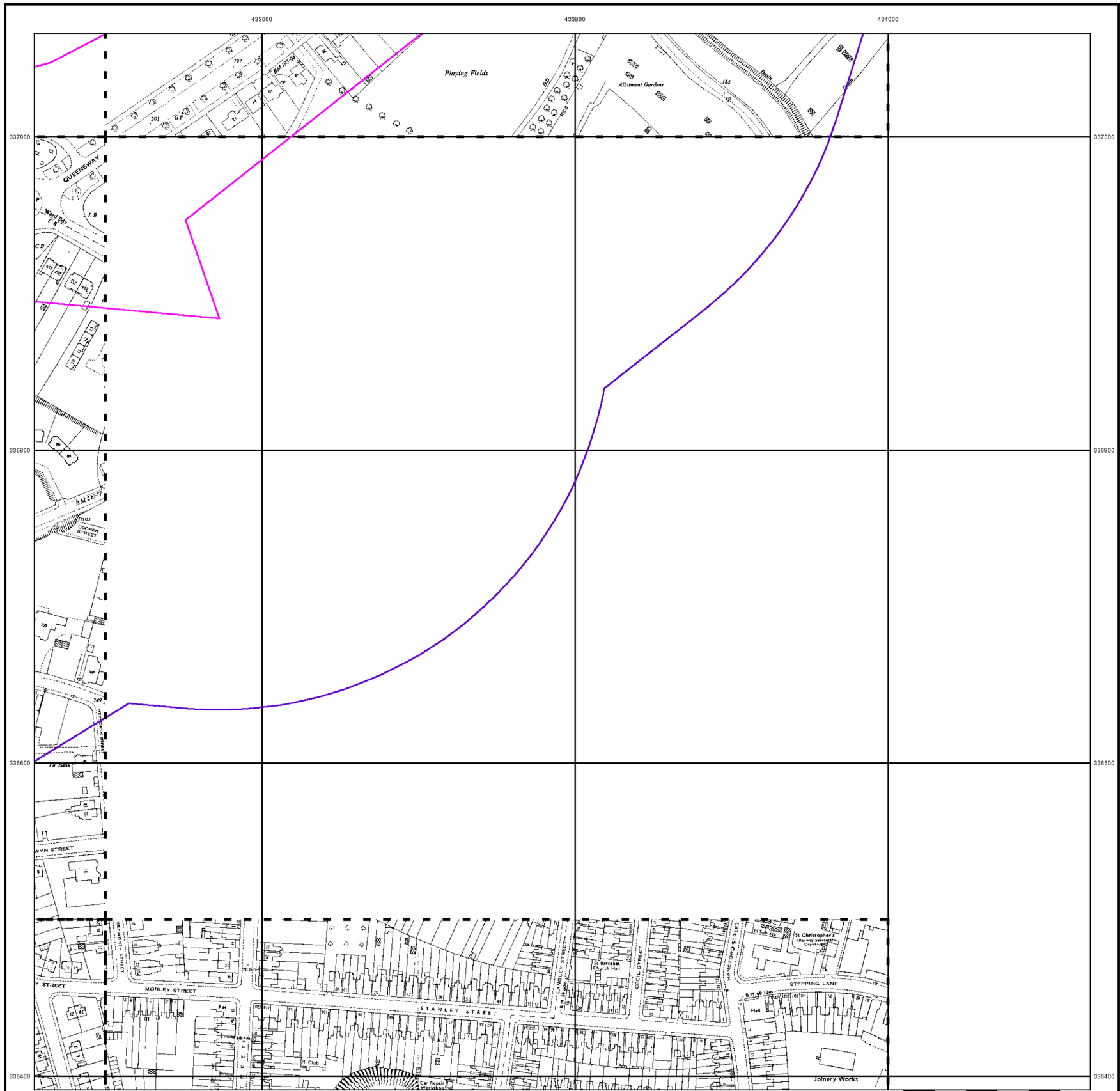
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433600
433800
434000
337000
336800
336600
336400
Playing Fields
Allotment Gardens
Derby & Midland Mills
Britannia Mills
QUEENSWAY
Trevone
Shelter
Pavilion
Turner's Almshouses
Pump
WINDMILL HILL LANE
Toll Trees
St Margaret's Girls Training Home
COOPER STREET
Sunday School
CROSS STREET
ASHBOURNE ROAD
PAYNE STREET
NOEL STREET
SYLVILLE STREET
COLVILLE STREET
MERCHANT STREET
SHAW STREET
Depository
Mill Pond
Weir
Track
Derby
Works (Aerated Water)
Methodist Church
Warehouse
Ramp
Factory
MANCHESTER STREET
BASS STREET
PEEL STREET
FREDERICK STREET
Ashgate School
The Church of St Barnabas
Day & Nursery
Fir Bank
RADBOURNE STREET
RICHARDSON STREET
LANGLEY STREET
CECIL STREET
HANDFORD STREET
St Christopher's (Railway Servants Orphanage)
Tennis Courts
Playing Field
Playground
St Barnabas Church Hall
MORLEY STREET
STANLEY STREET
STEPPING LANE
Hall
Works
Chy
Ch
TCB
PH
Fn
Sch
Weighbridge
Sluice
Culvert
Gas Governor
Tk
Fl S
Path
Steps
Ramp
Wall
Fence
Hedge
Gate
Posts
Rails
Bridge
Cutting
Embankment
Level
Tunnel
Boundary Stone
Milestone
Direction Stone
Fingerpost
Telegraph Post
Telephone Post
Lamp Post
Pillar Box
Letter Box
Well
Spring
Sand Pit
Quarry
Rock
Scrub
Orchard
Coppice
Wood
Marsh
Reeds
Osiers
Sand
Shingle
Mud
Water
Foreshore
Sea Wall
Groyne
Pier
Jetty
Slipway
Boat Slip
Boat Stage
Buoy
Beacon
Light
Light Vessel
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Mooring
Anchorage
Dock
Basin
Lock
Weir



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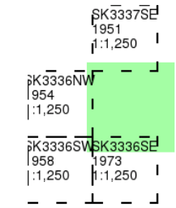
Ordnance Survey Plan

Published 1951 - 1973

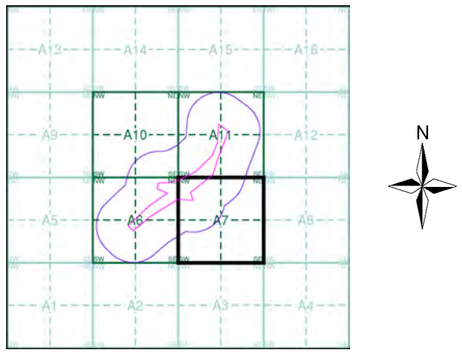
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

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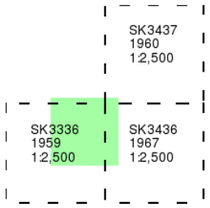
Ordnance Survey Plan

Published 1959 - 1967

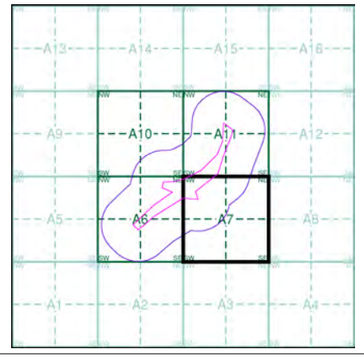
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



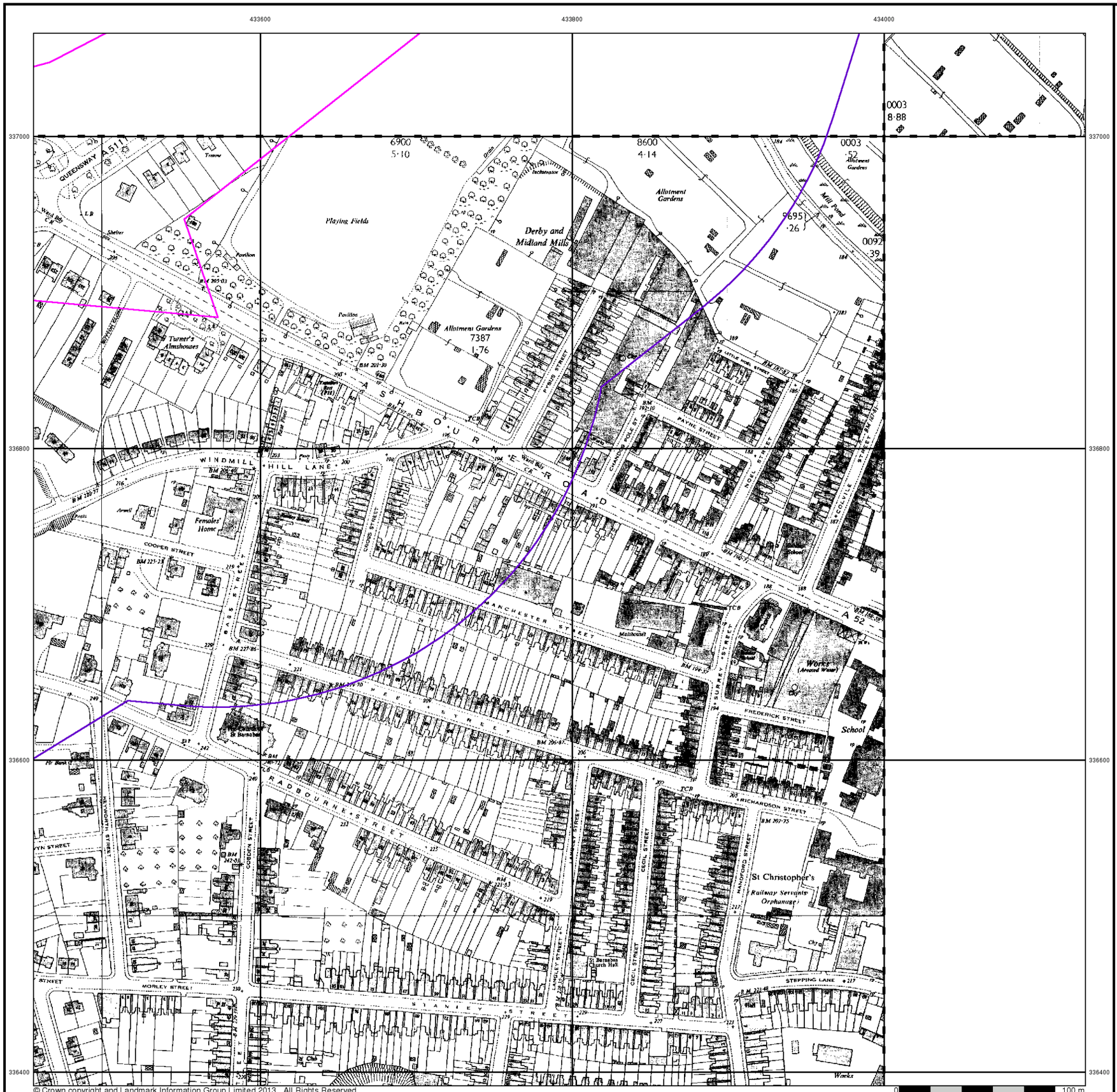
Order Details

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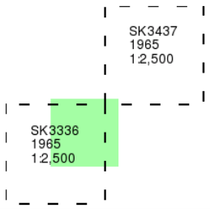
Ordnance Survey Plan

Published 1965

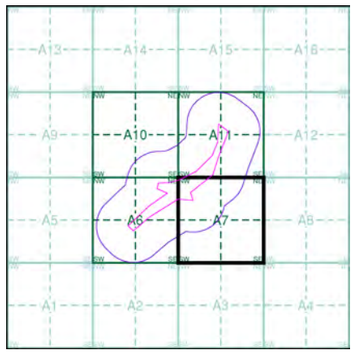
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Historical Map - Segment A7



Order Details

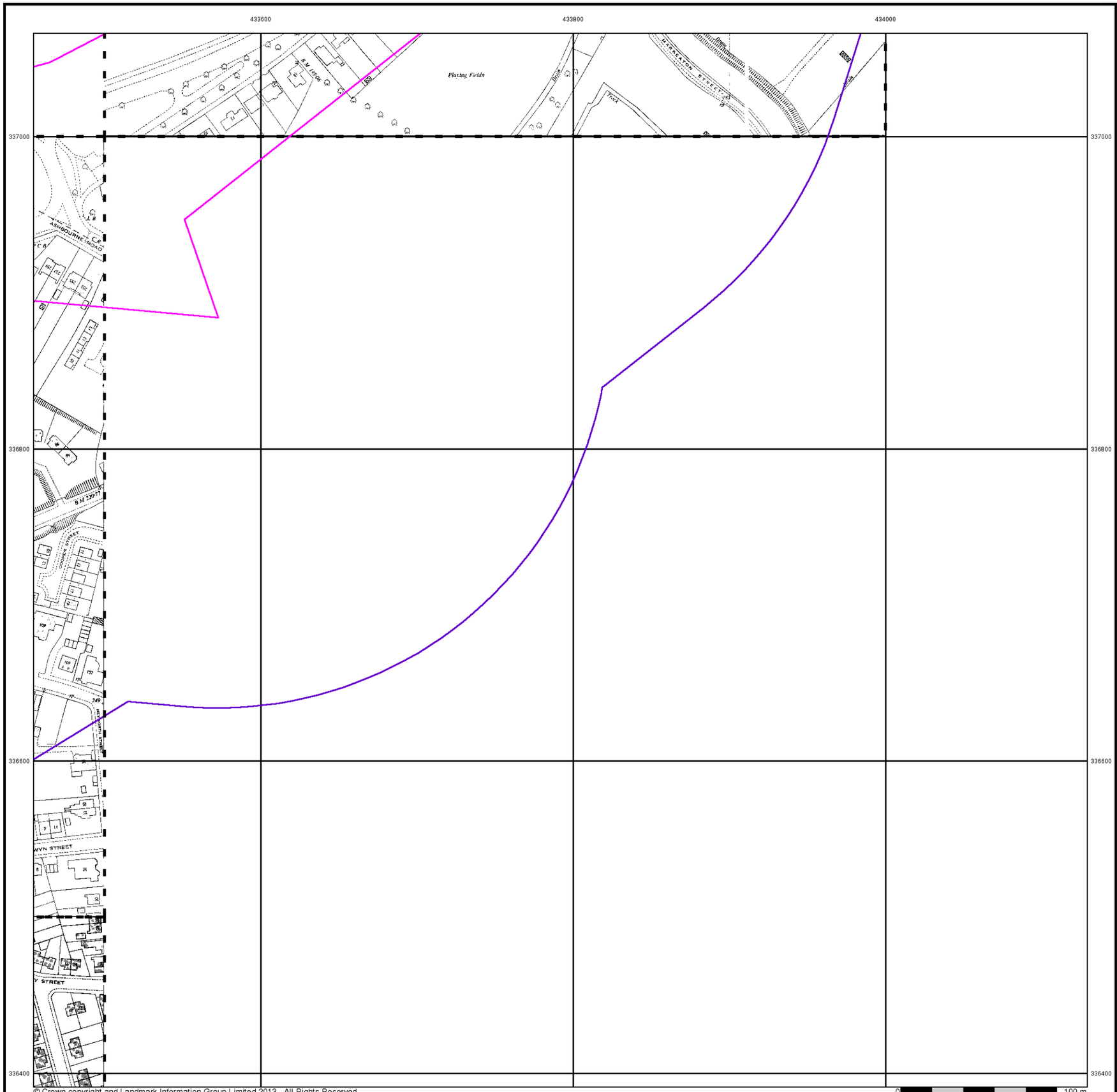
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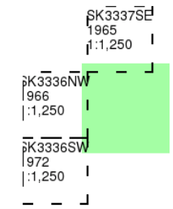
Ordnance Survey Plan

Published 1965 - 1972

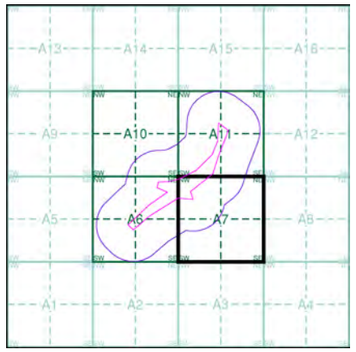
Source map scale - 1:1,250

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Historical Map - Segment A7



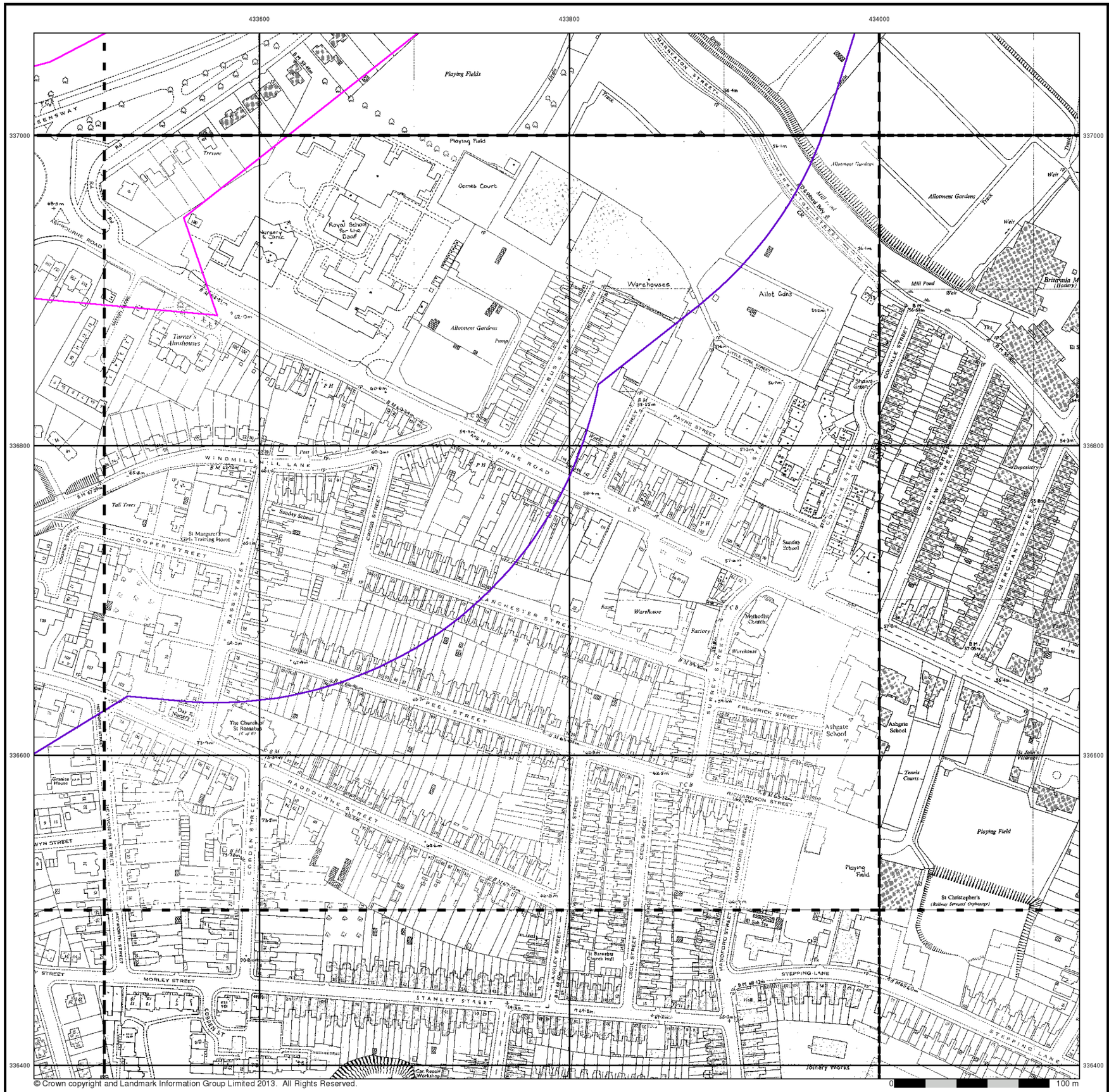
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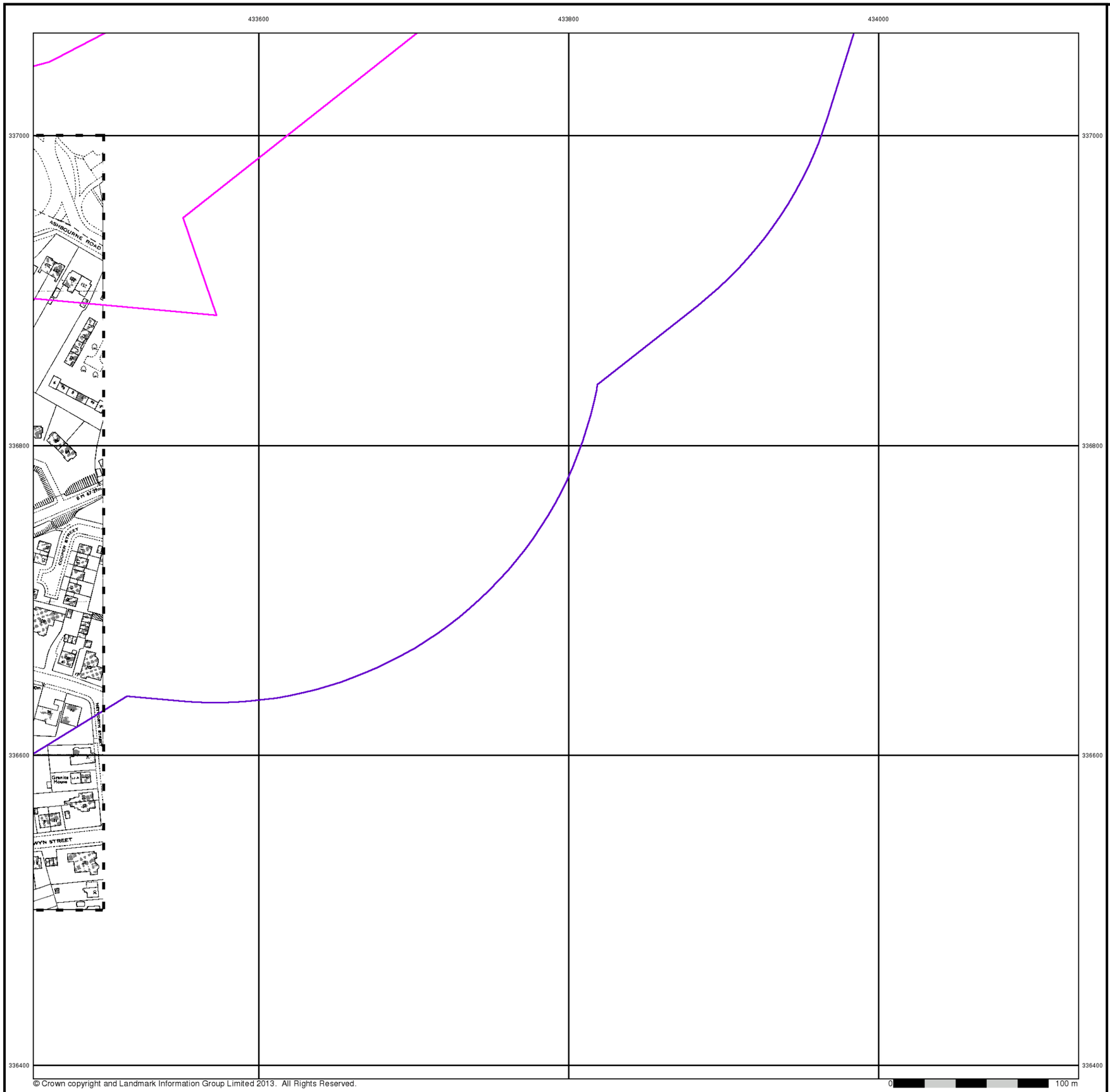
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433600
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Playing Fields
Playing Field
Gomeb Court
Royal School for the Deaf
Warehouses
Allot Gdns
Allotment Gardens
Turner's Almshouses
Britannia Mills (Hosiery)
Mill Pond
Warehouse
Factory
Methodist Church
Ashgate School
Tennis Courts
Playing Field
St Christopher's (Railway Servants' Orphanage)
St Barnabas Parish Hall
Sunday School
St Margaret's Girls Training Home
Day Nursery
The Church of St Barnabas
Depository
Joinery Works
Car Repair Workshop
Tall Trees
Ashbourne Road
Windmill Lane
Cooper Street
Manchester Street
Peel Street
Raddourne Street
Stanley Street
Morley Street
Stepping Lane
Frederick Street
Richardson Street
Colville Street
Merchant Street
Cross Street
Cecil Street
Hanford Street
Osmaston Street
Queen Street
Bass Street
Payne Street
Little Wood Street
Shaw Street
Burton Road
Kensington Street
Corden Street
Cobden St
Grafton Street
Grosvenor Street
Meynell Street
Wyn Street
Grange House
Day Nursery
Pump
Well
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Sub Sta
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Hall
Factory
Pastor
Ch
Vicarage
Tennis Courts
Allotment Gardens



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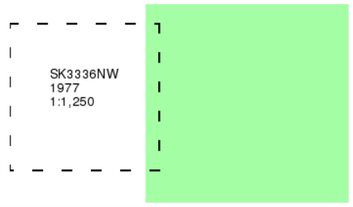
Ordnance Survey Plan

Published 1977

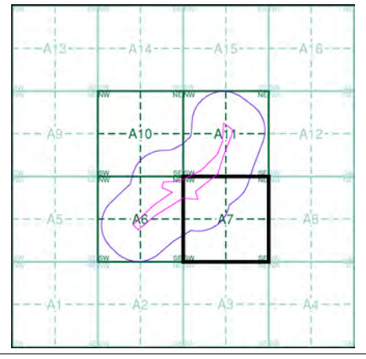
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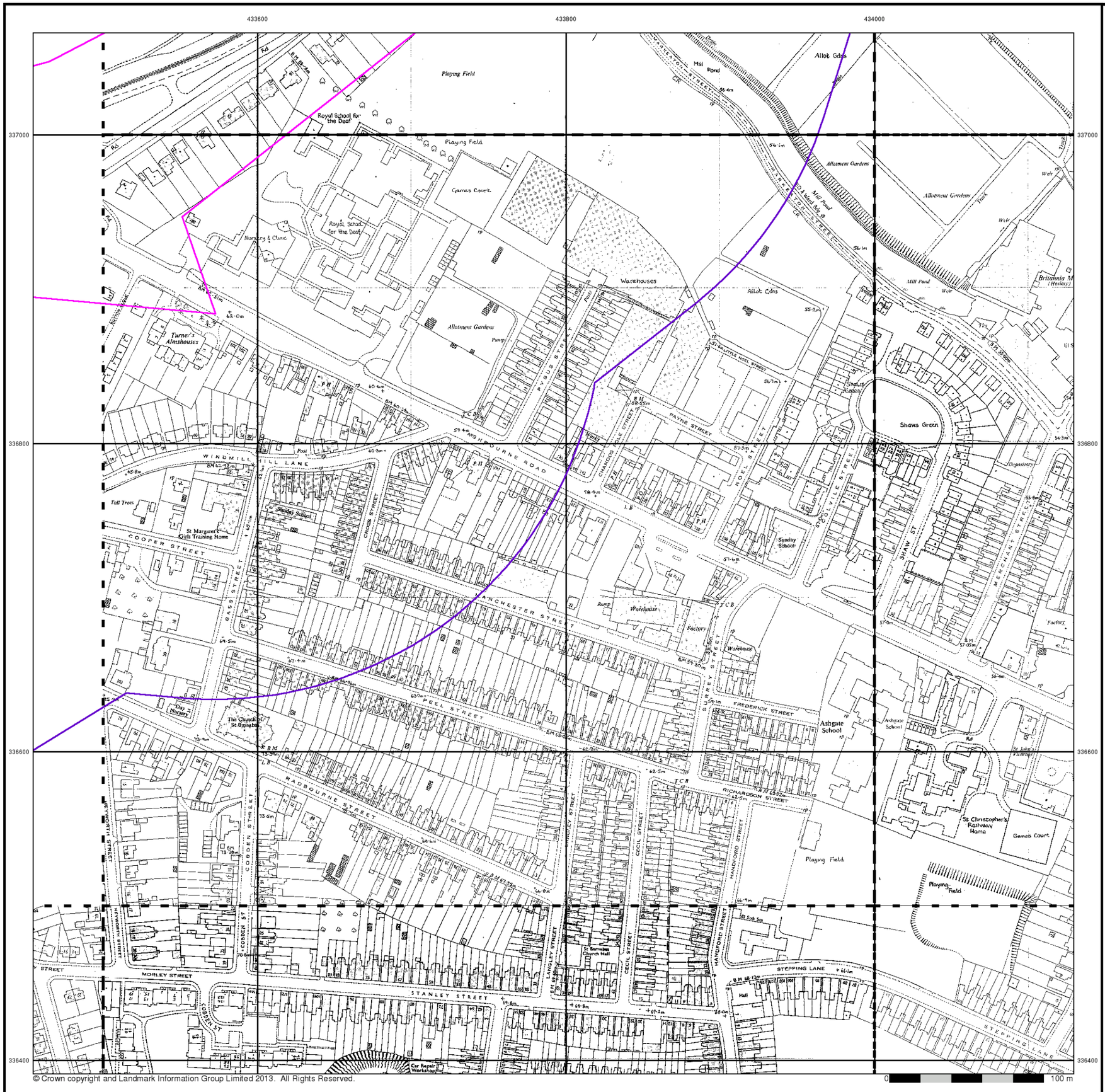
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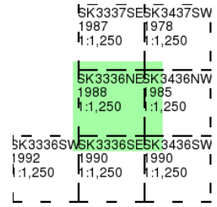
Additional SIMs

Published 1978 - 1992

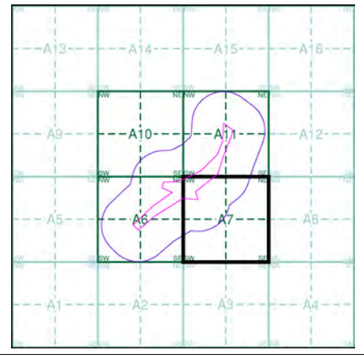
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

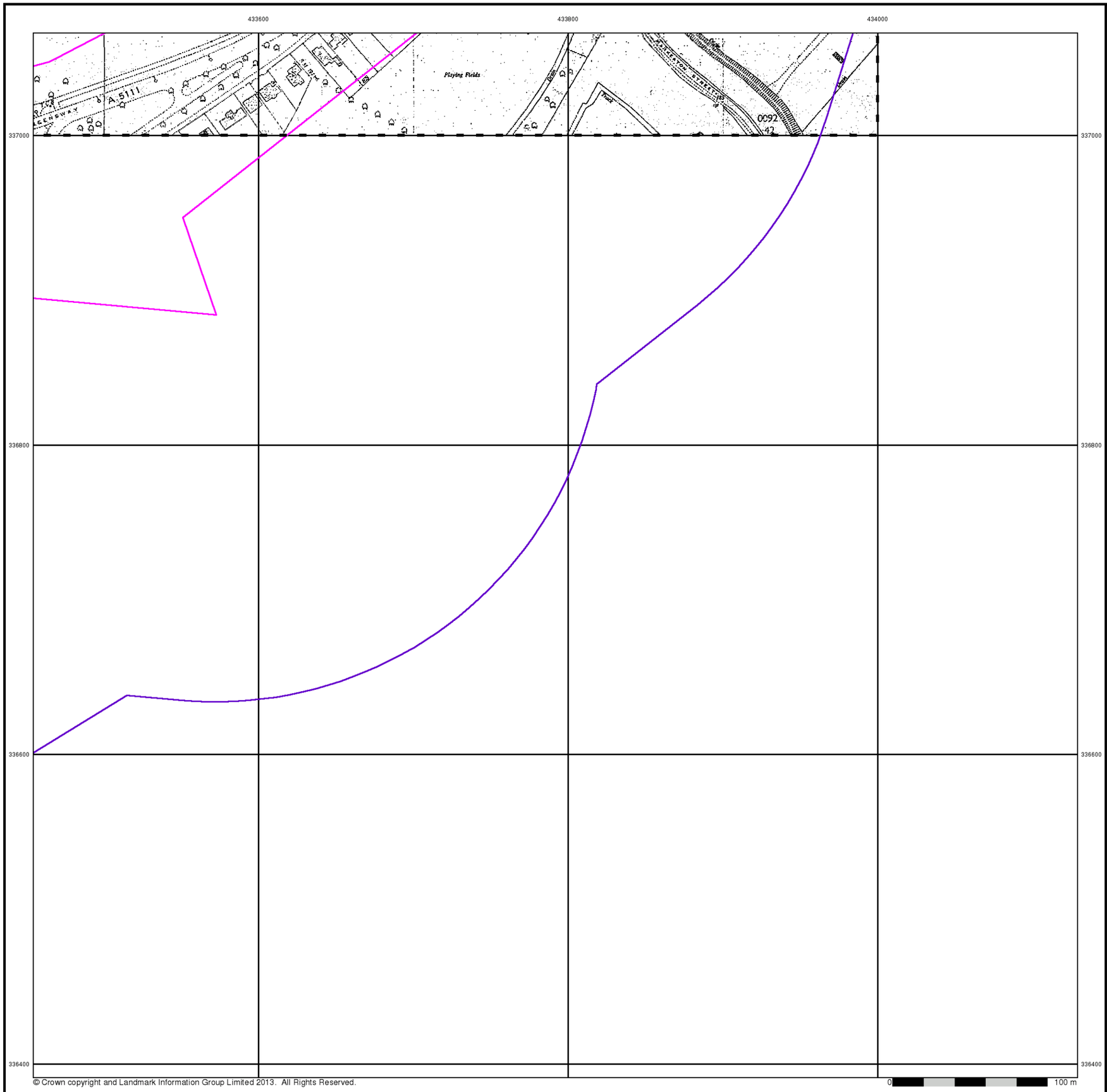
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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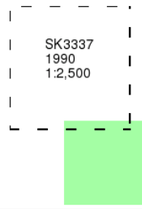
Additional SIMs

Published 1990

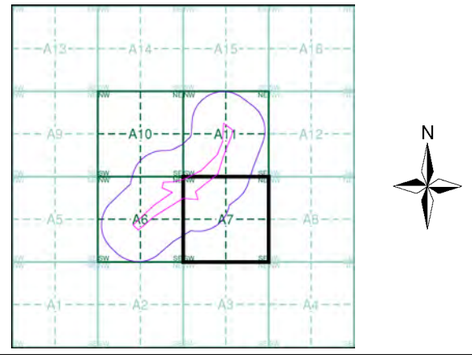
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Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

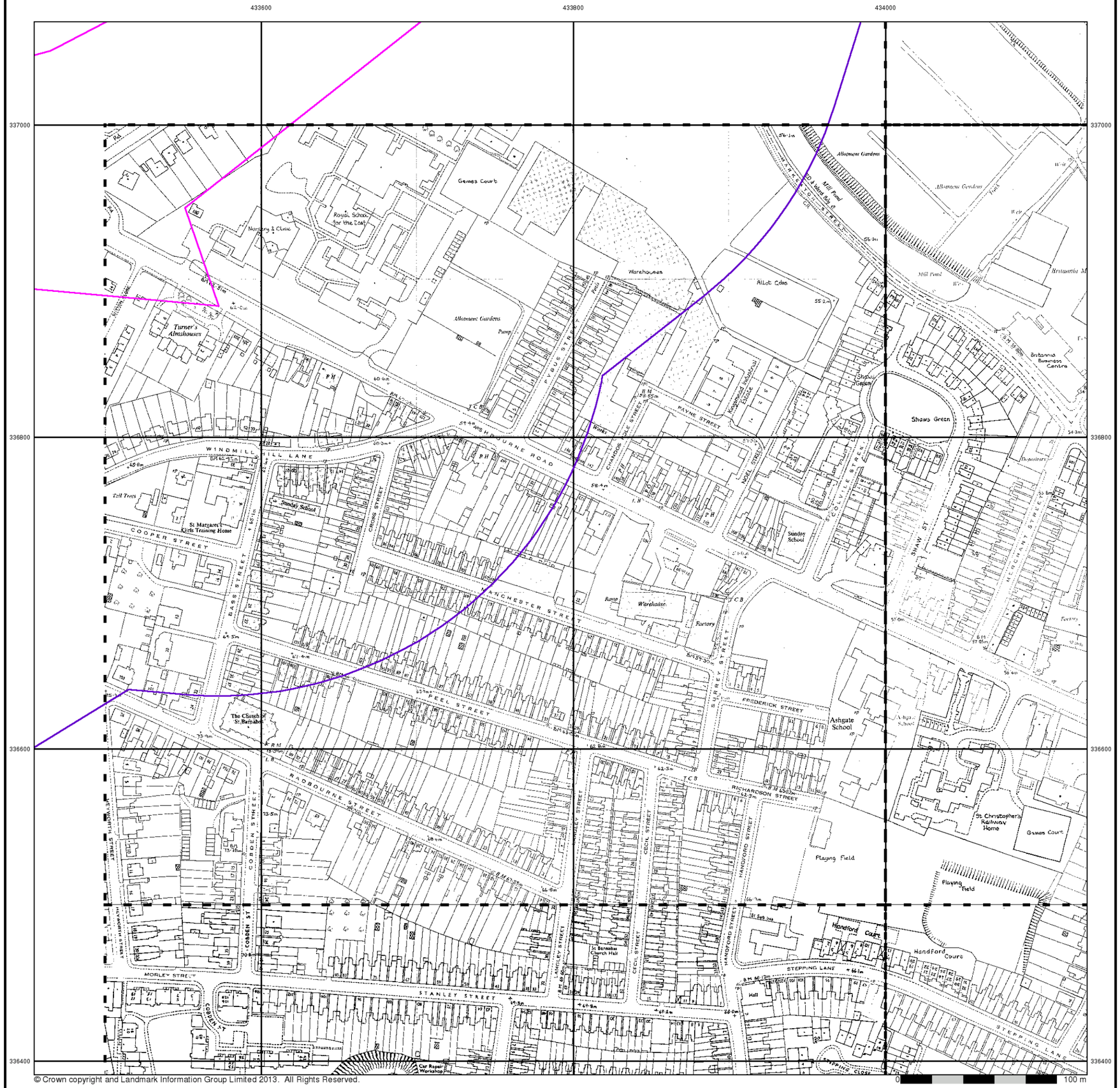
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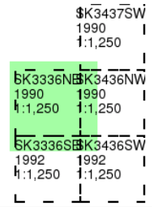
Additional SIMs

Published 1990 - 1992

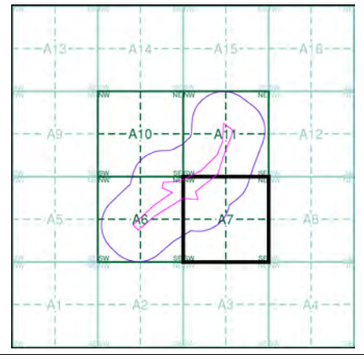
Source map scale - 1:1,250

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Historical Map - Segment A7



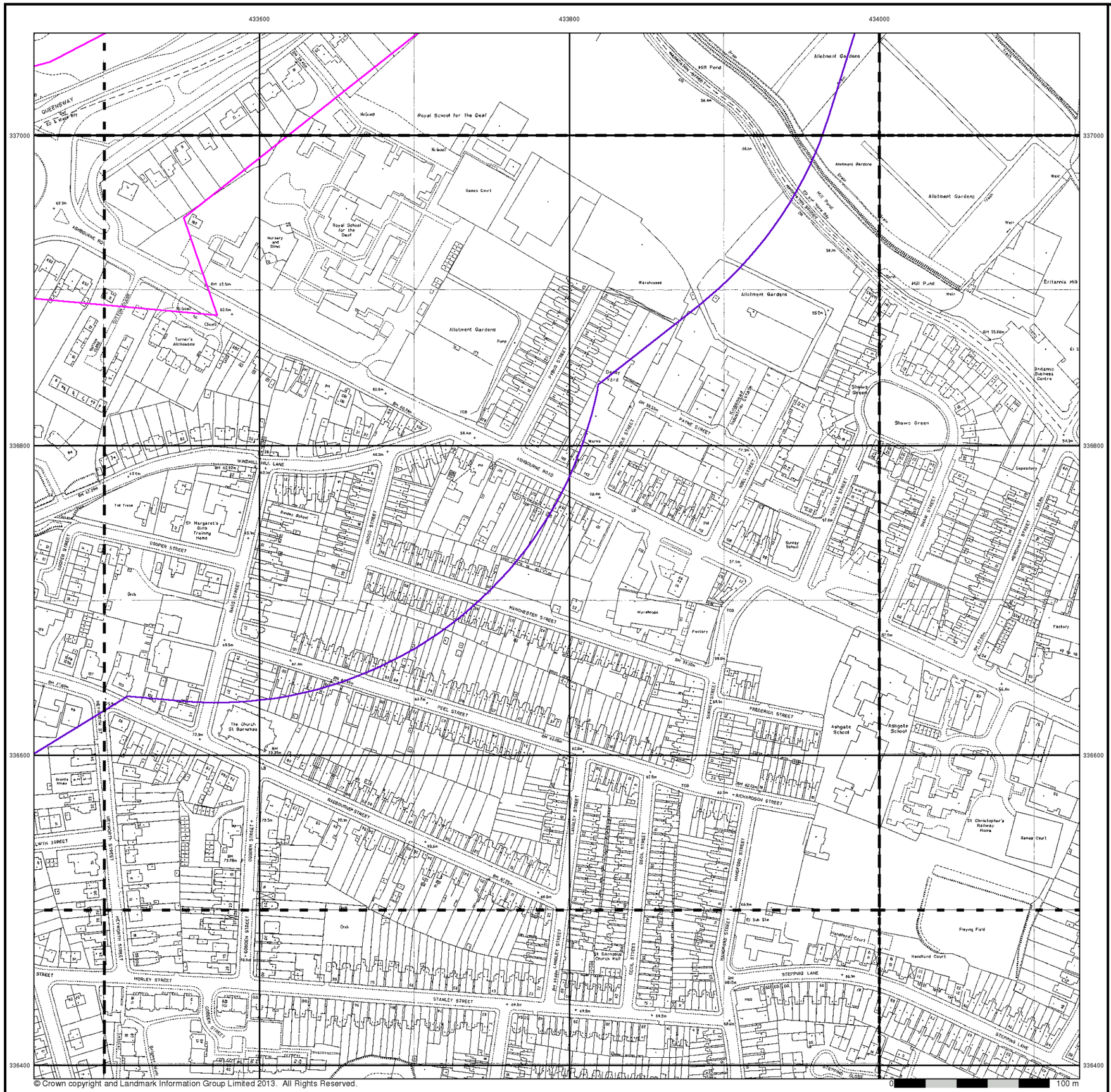
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Large-Scale National Grid Data

Published 1993

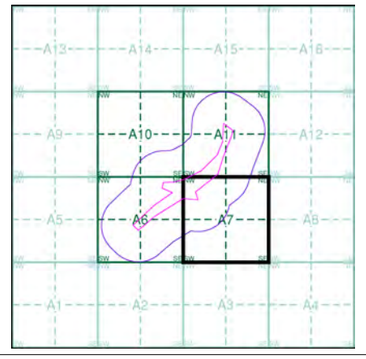
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A7



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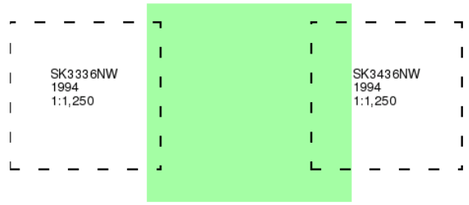
Large-Scale National Grid Data

Published 1994

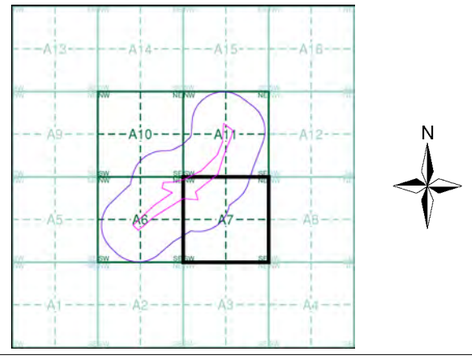
Source map scale - 1:1,250

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Map Name(s) and Date(s)



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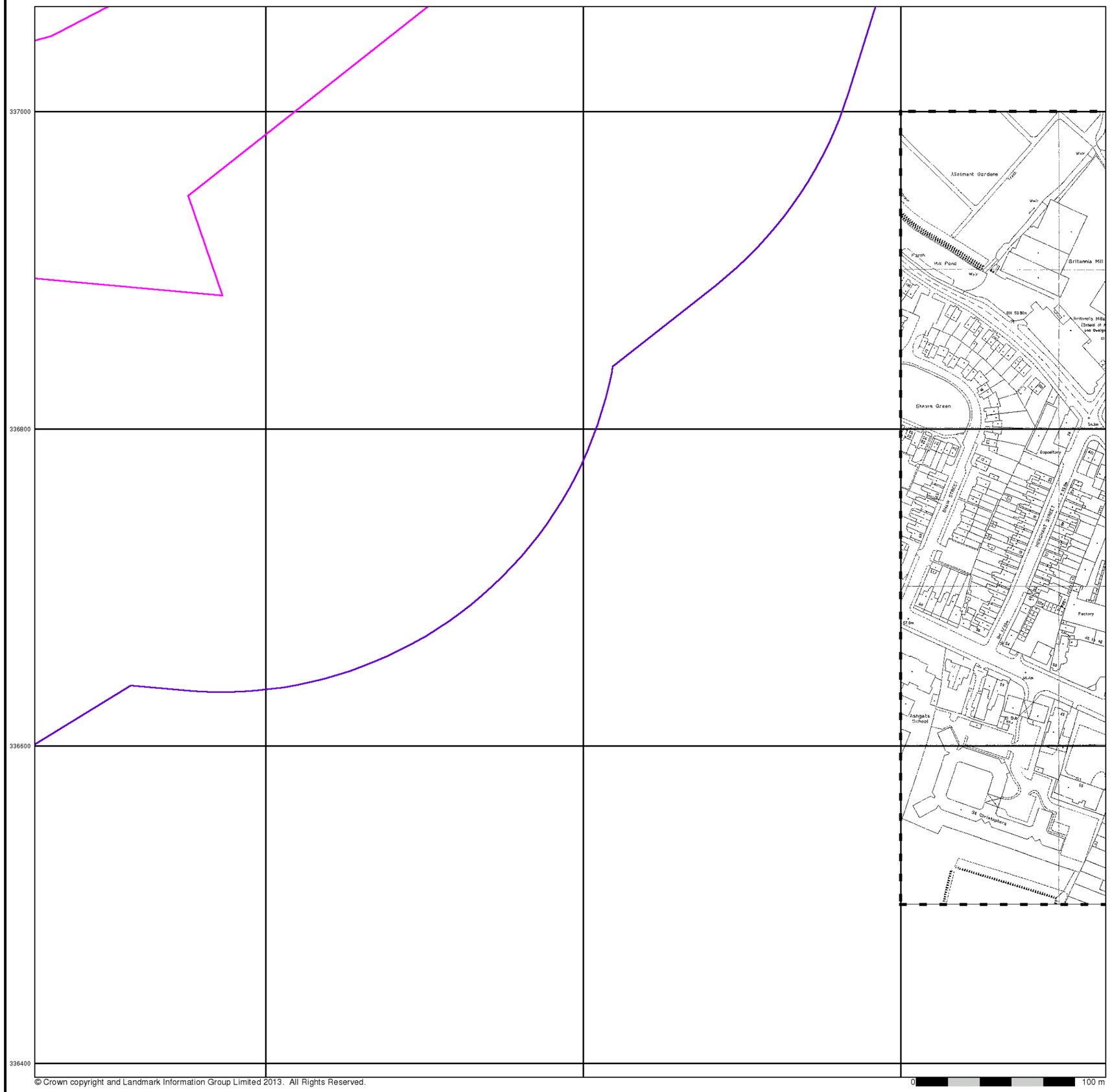
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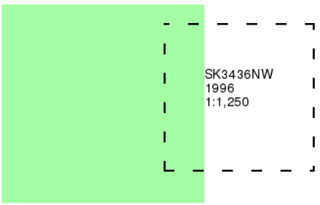
Large-Scale National Grid Data

Published 1996

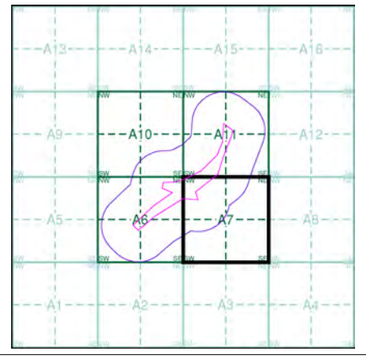
Source map scale - 1:1,250

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Map Name(s) and Date(s)



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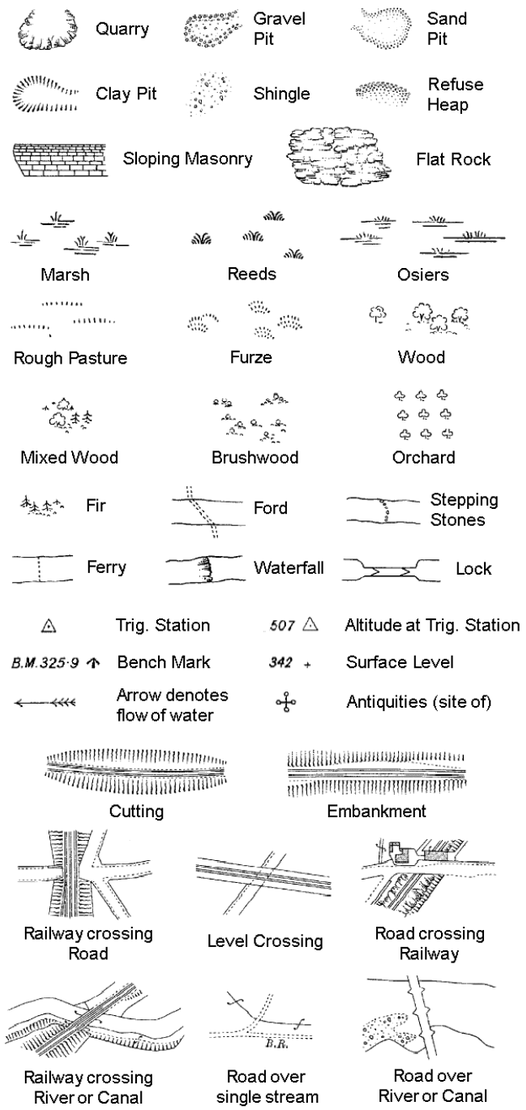
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Historical Mapping Legends

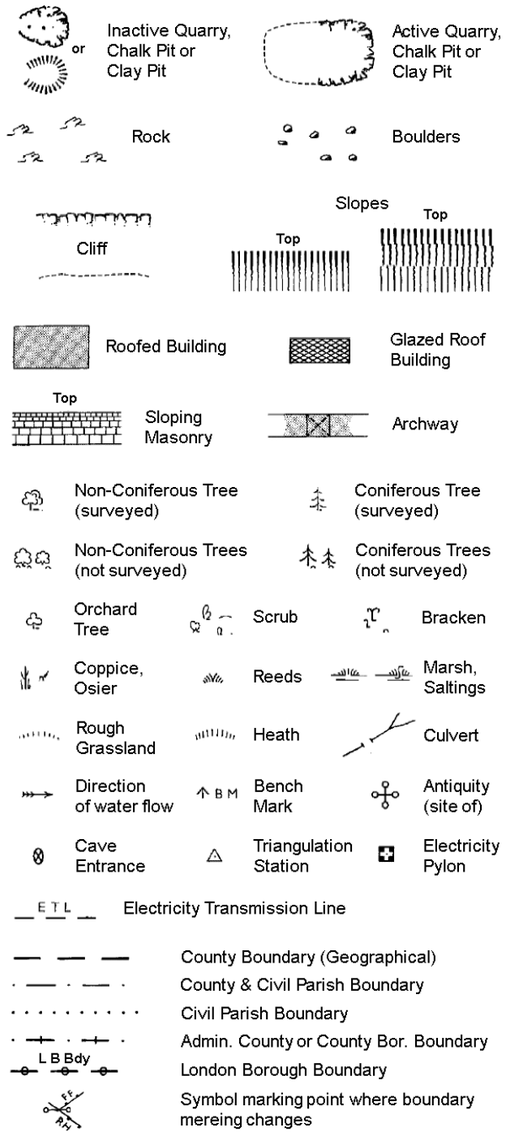
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

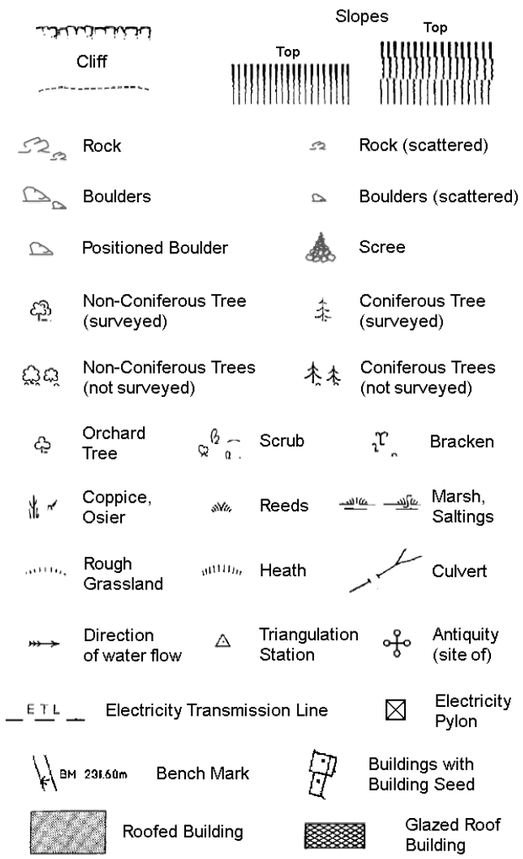
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

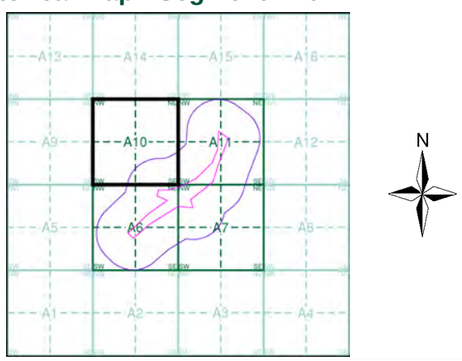
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1882 - 1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1914	4
Derbyshire	1:2,500	1937	5
Ordnance Survey Plan	1:1,250	1955	6
Ordnance Survey Plan	1:1,250	1965 - 1970	7
Additional SIMs	1:1,250	1965	8
Ordnance Survey Plan	1:2,500	1969	9
Additional SIMs	1:2,500	1990	10
Large-Scale National Grid Data	1:1,250	1993	11

Historical Map - Segment A10



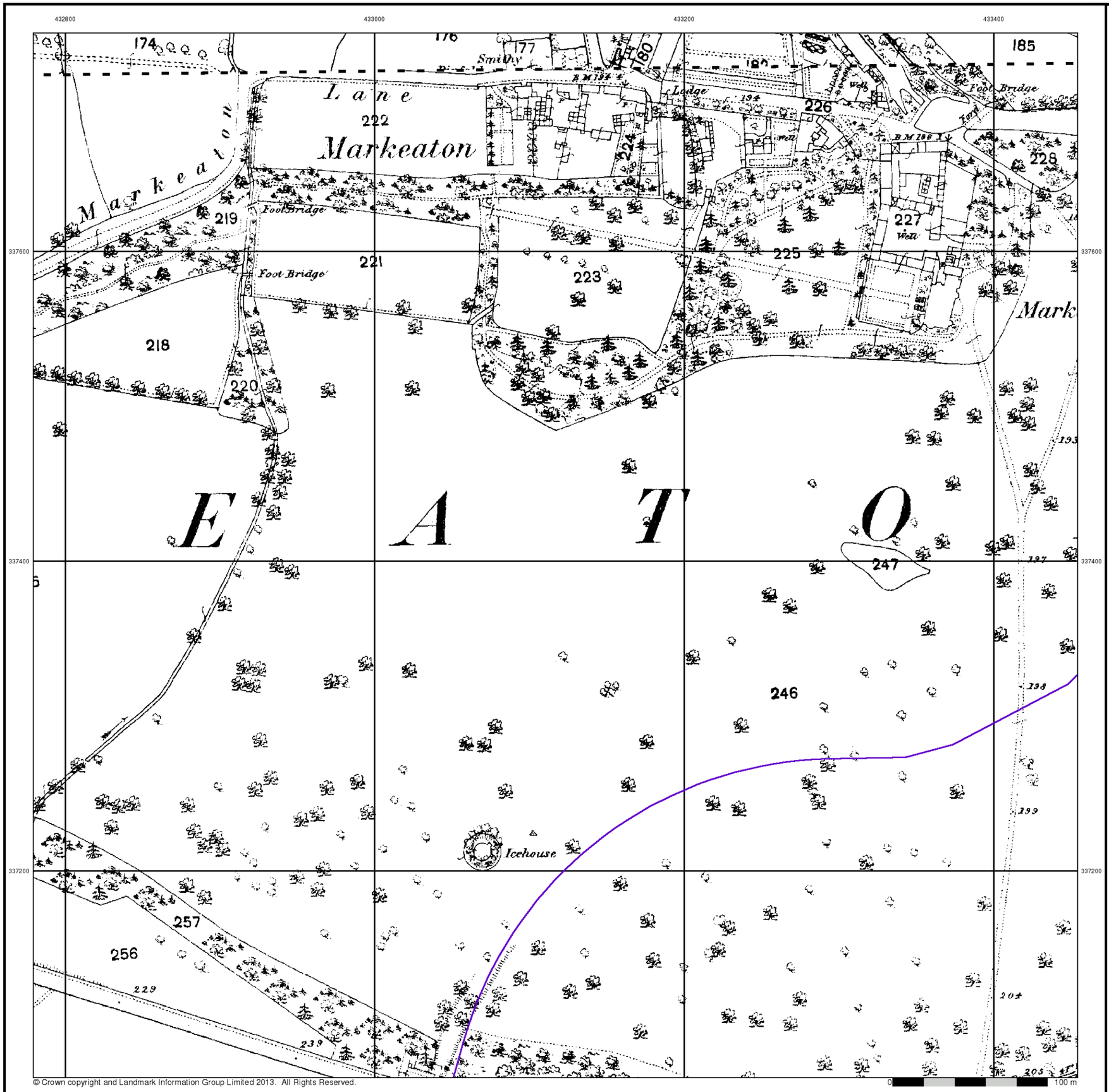
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Customer Ref: 47071637.208APS
National Grid Reference: 433480, 337040
Slice: A
Site Area (Ha): 10.53
Search Buffer (m): 250

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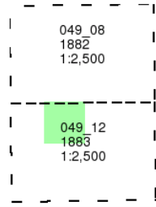
Derbyshire

Published 1882 - 1883

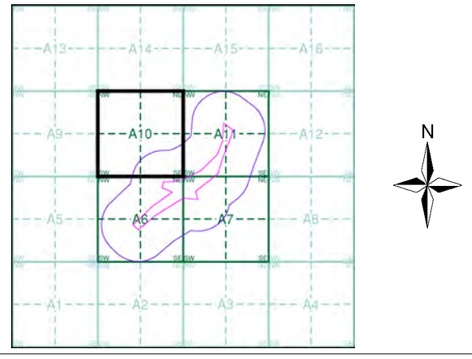
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A10



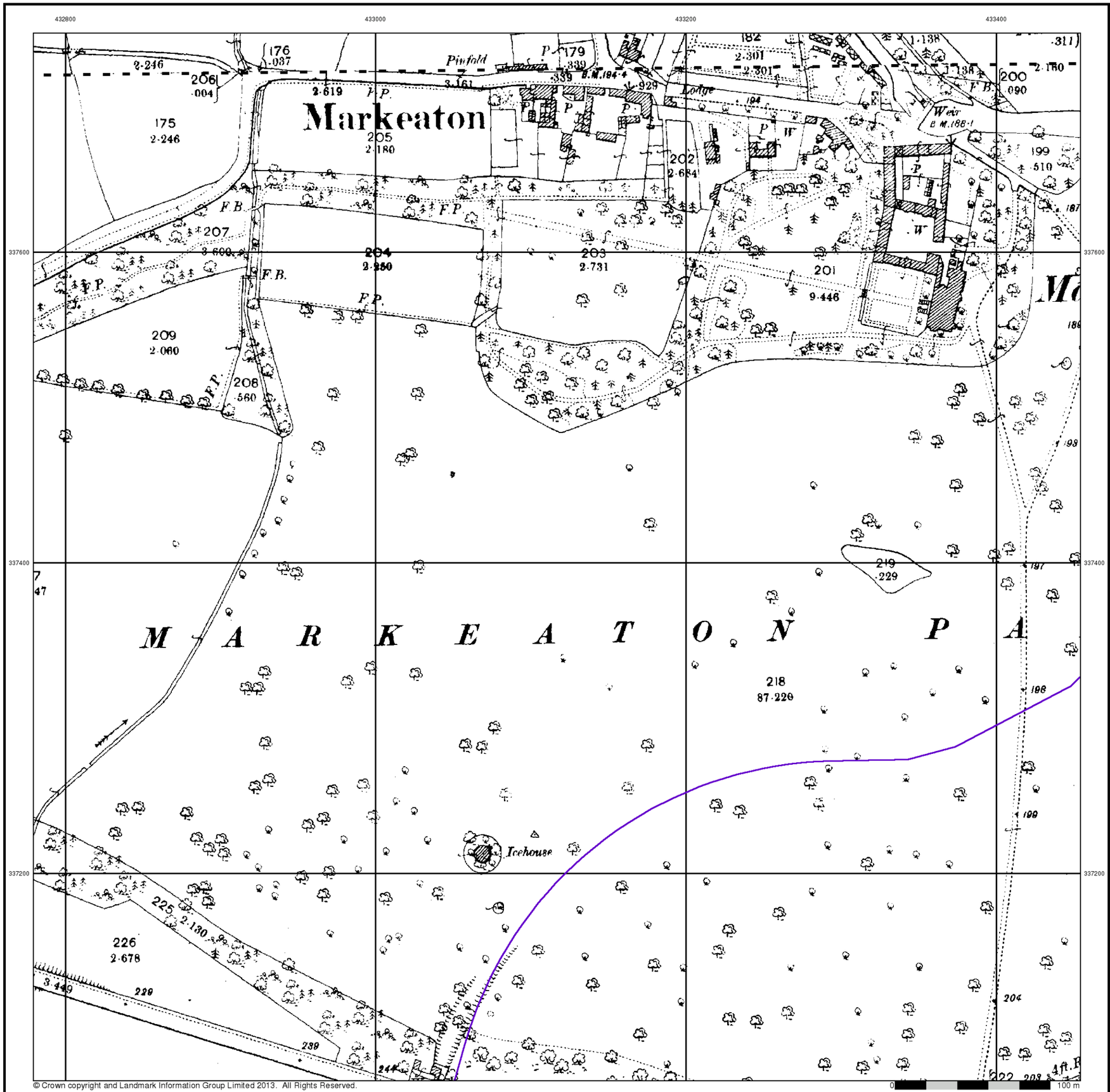
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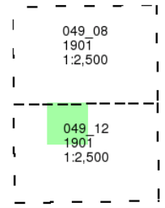
Derbyshire

Published 1901

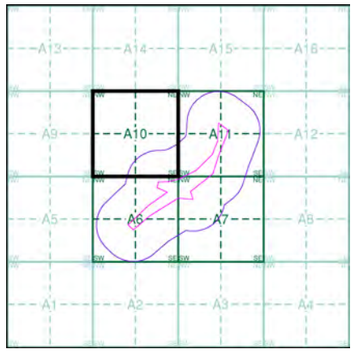
Source map scale - 1:2,500

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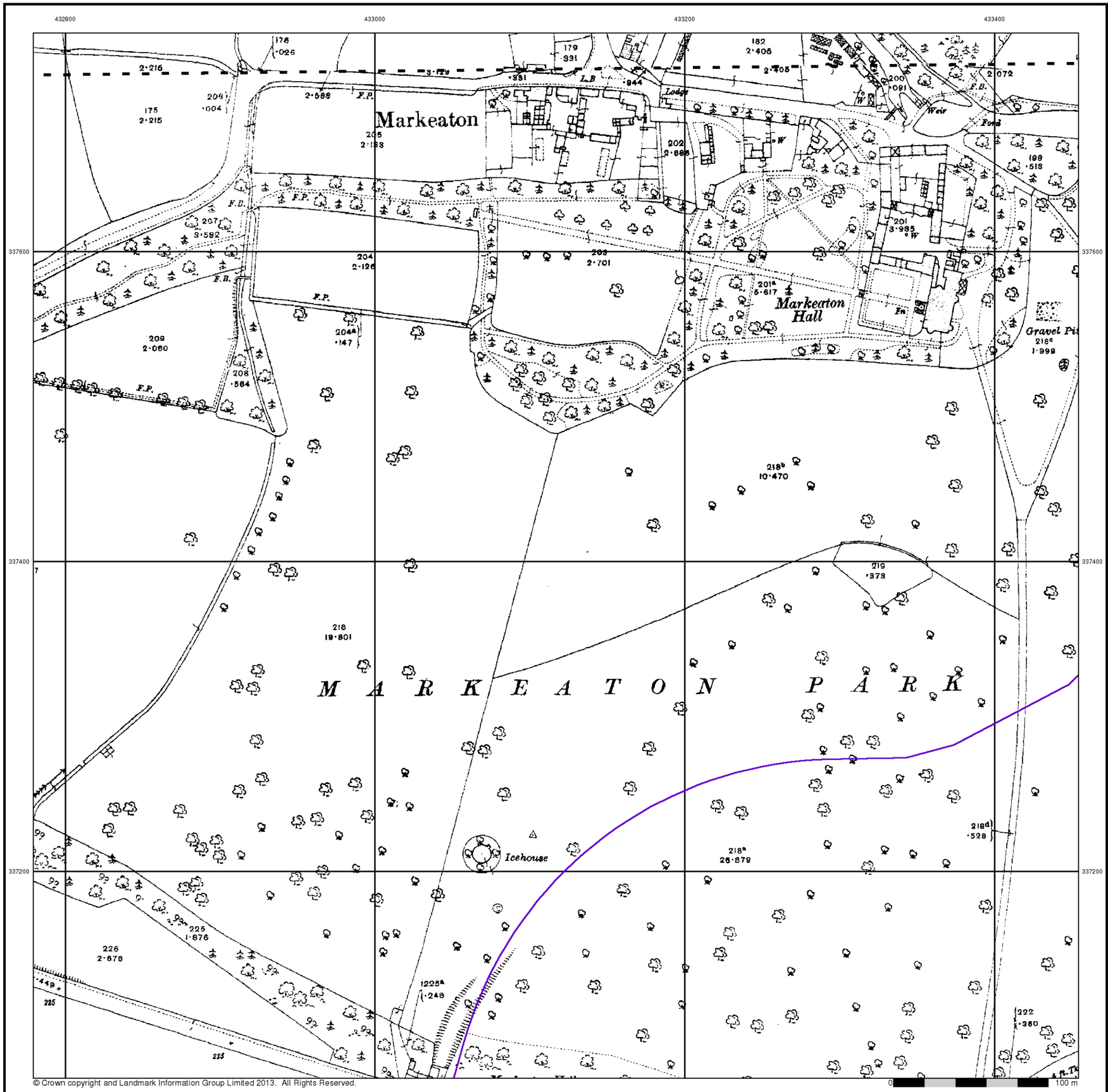
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0 100 m

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Derbyshire

Published 1914

Source map scale - 1:2,500

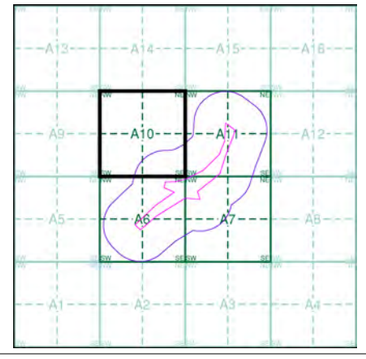
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Map Name(s) and Date(s)

049_08
1914
1:2,500

049_12
1914
1:2,500

Historical Map - Segment A10



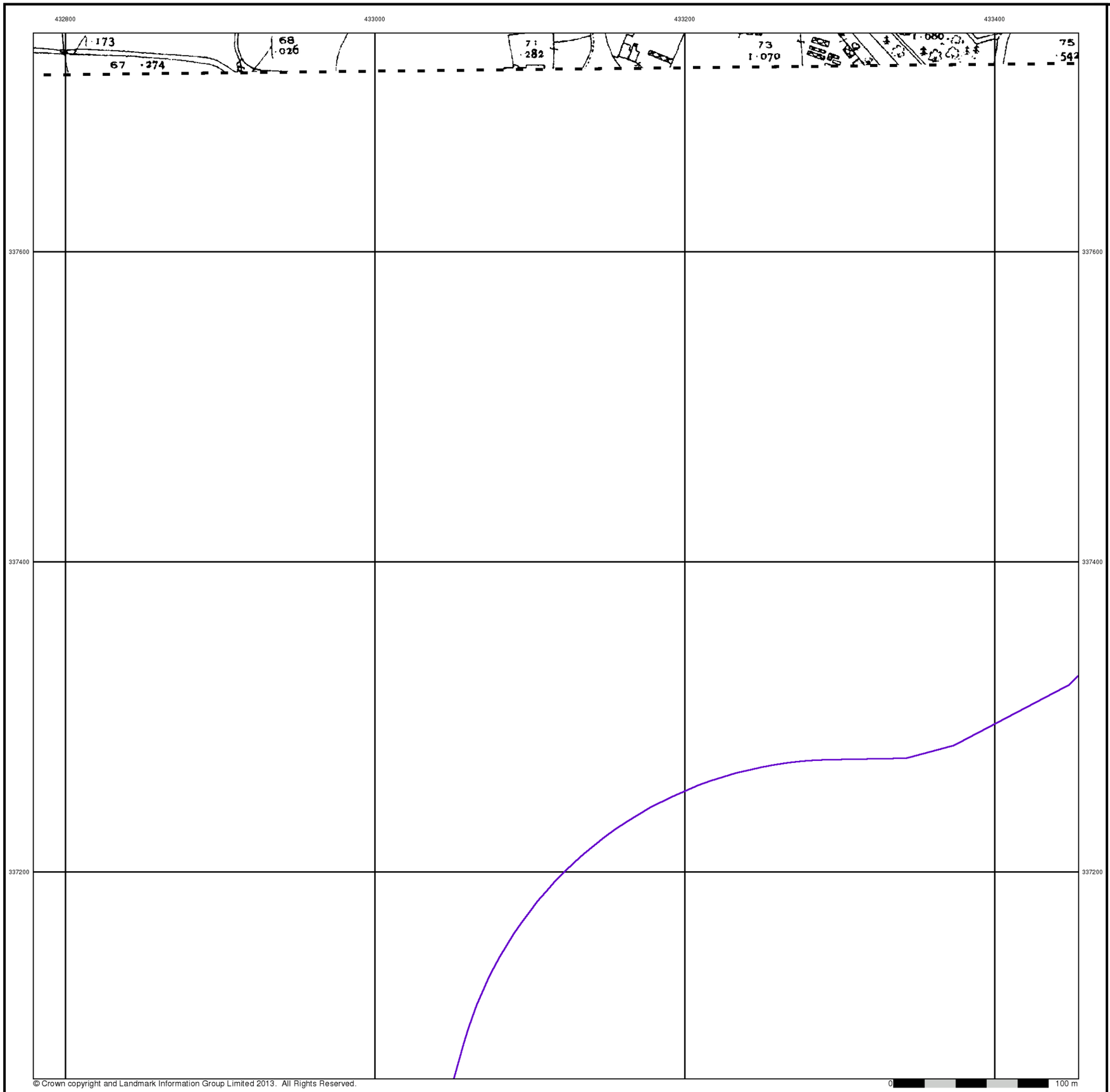
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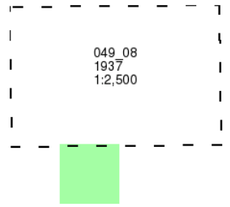
Derbyshire

Published 1937

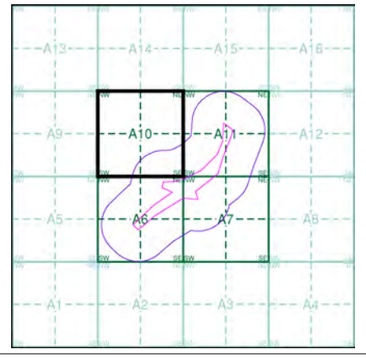
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Historical Map - Segment A10



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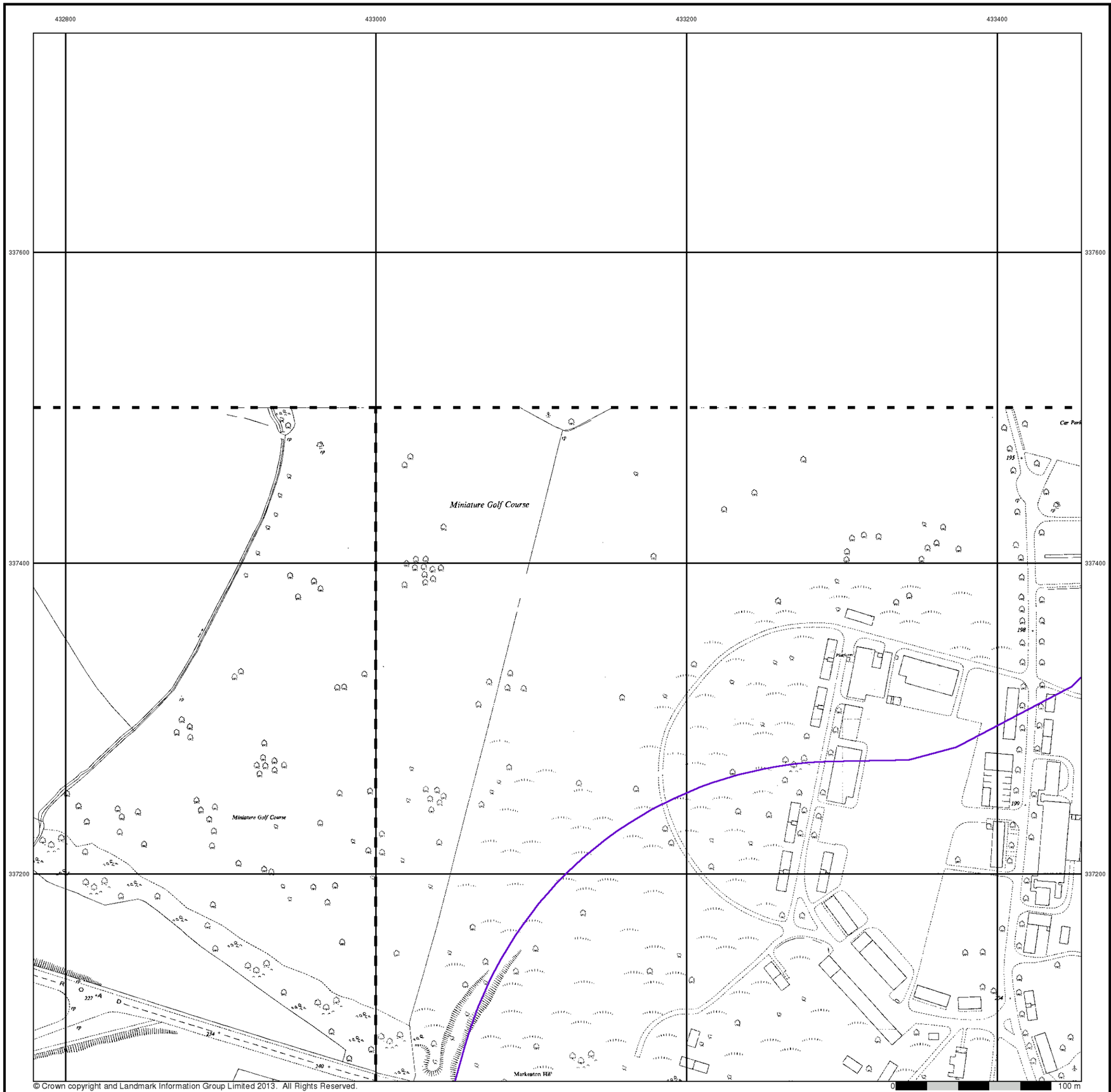
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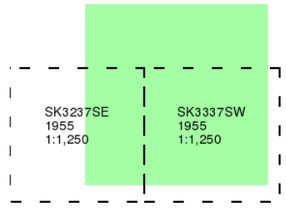
Ordnance Survey Plan

Published 1955

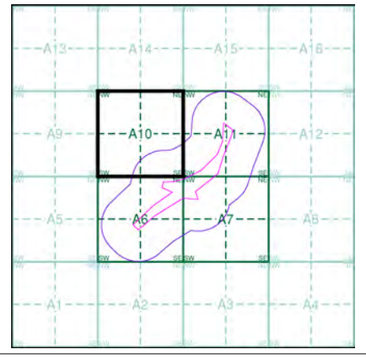
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A10



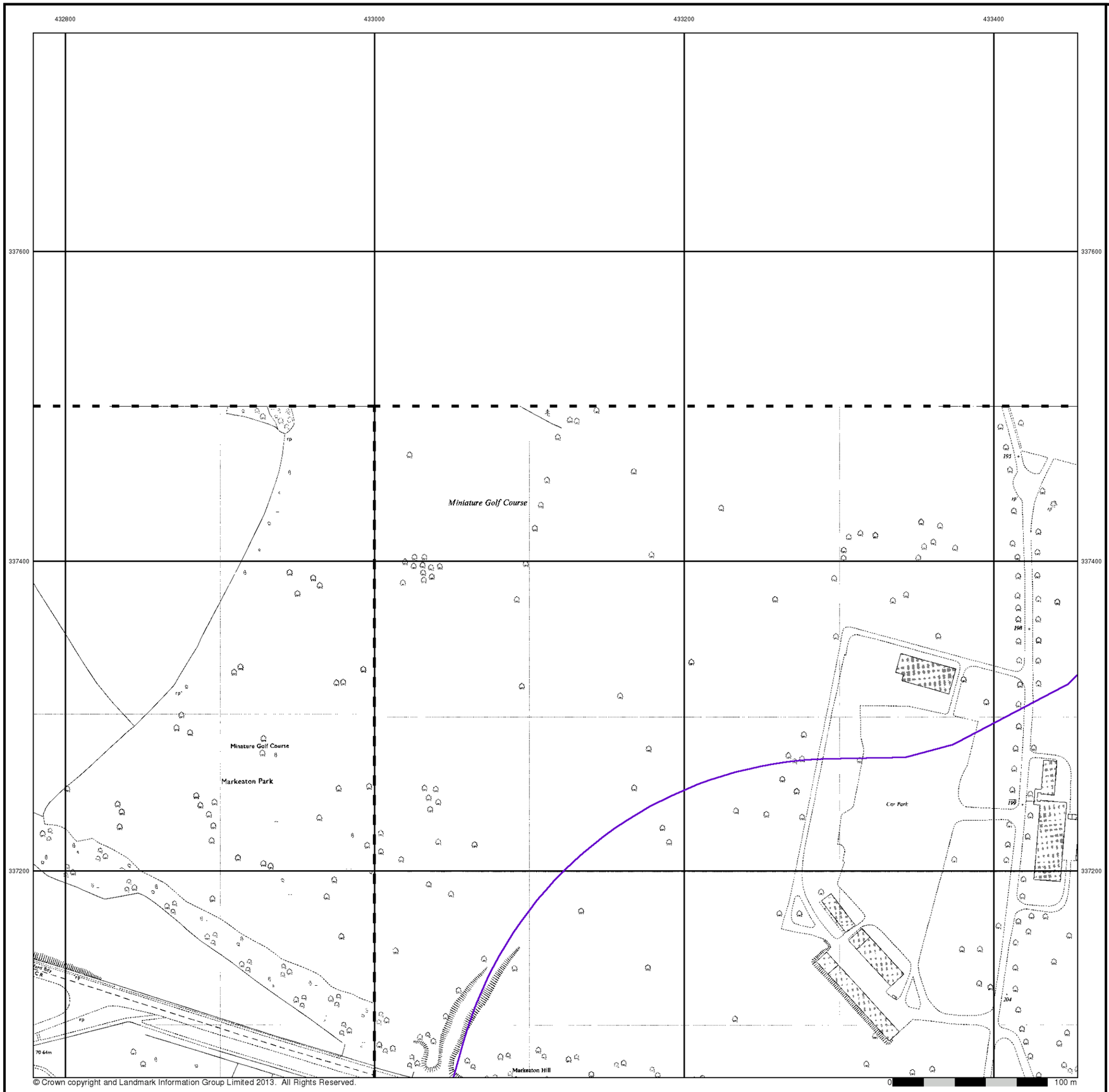
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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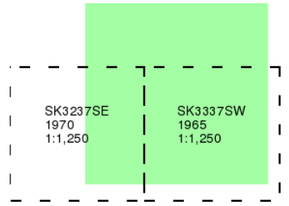
Ordnance Survey Plan

Published 1965 - 1970

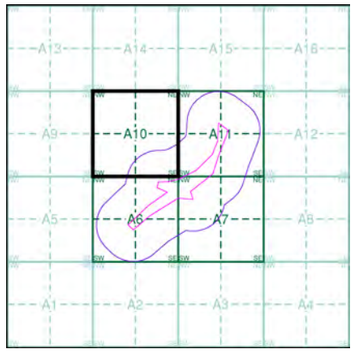
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

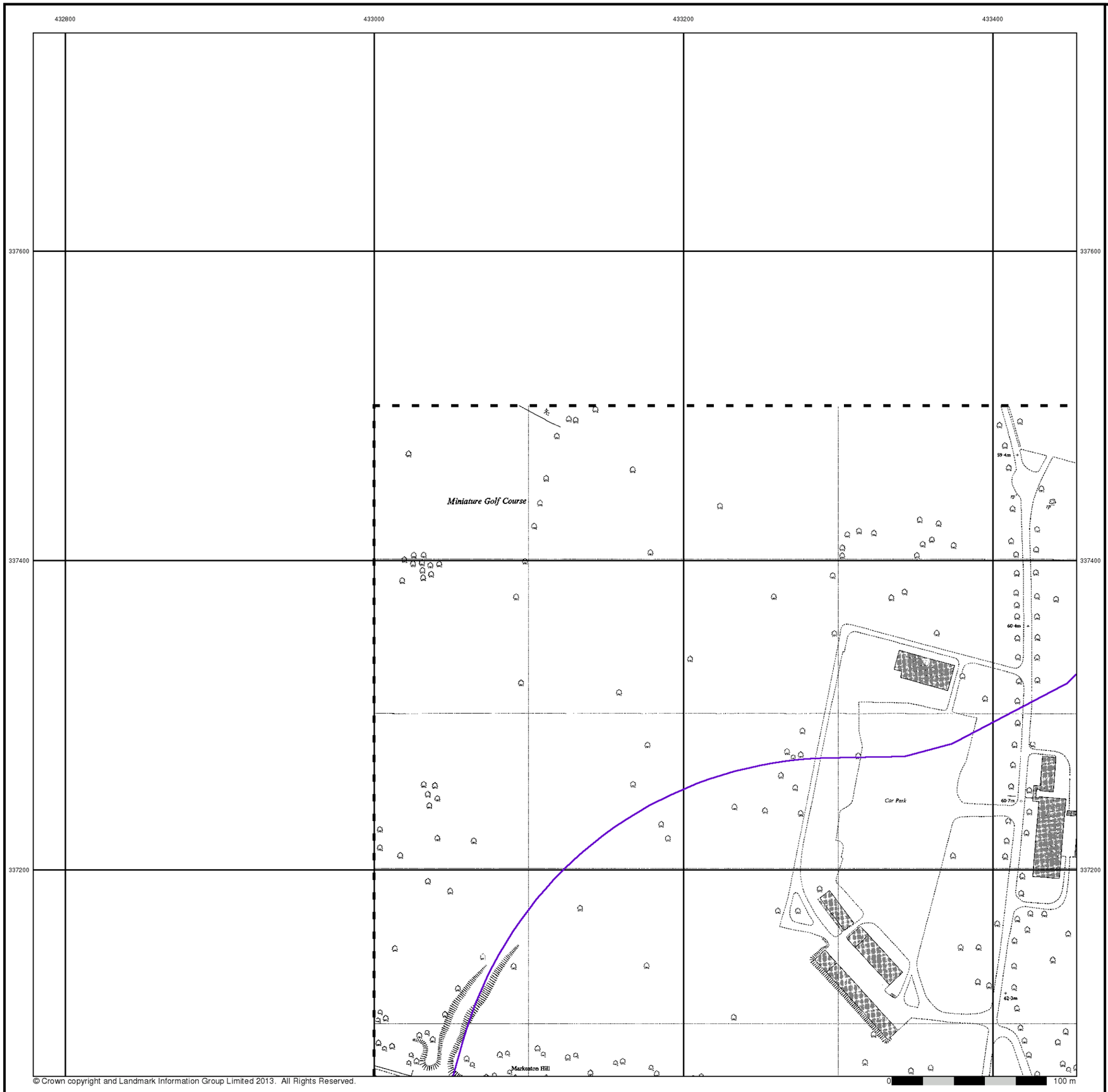
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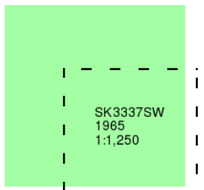
Additional SIMs

Published 1965

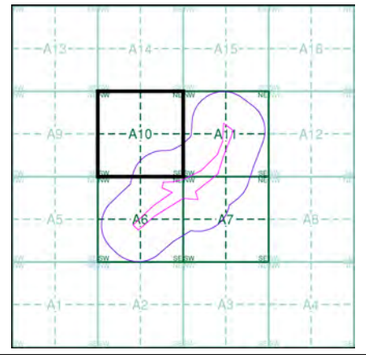
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

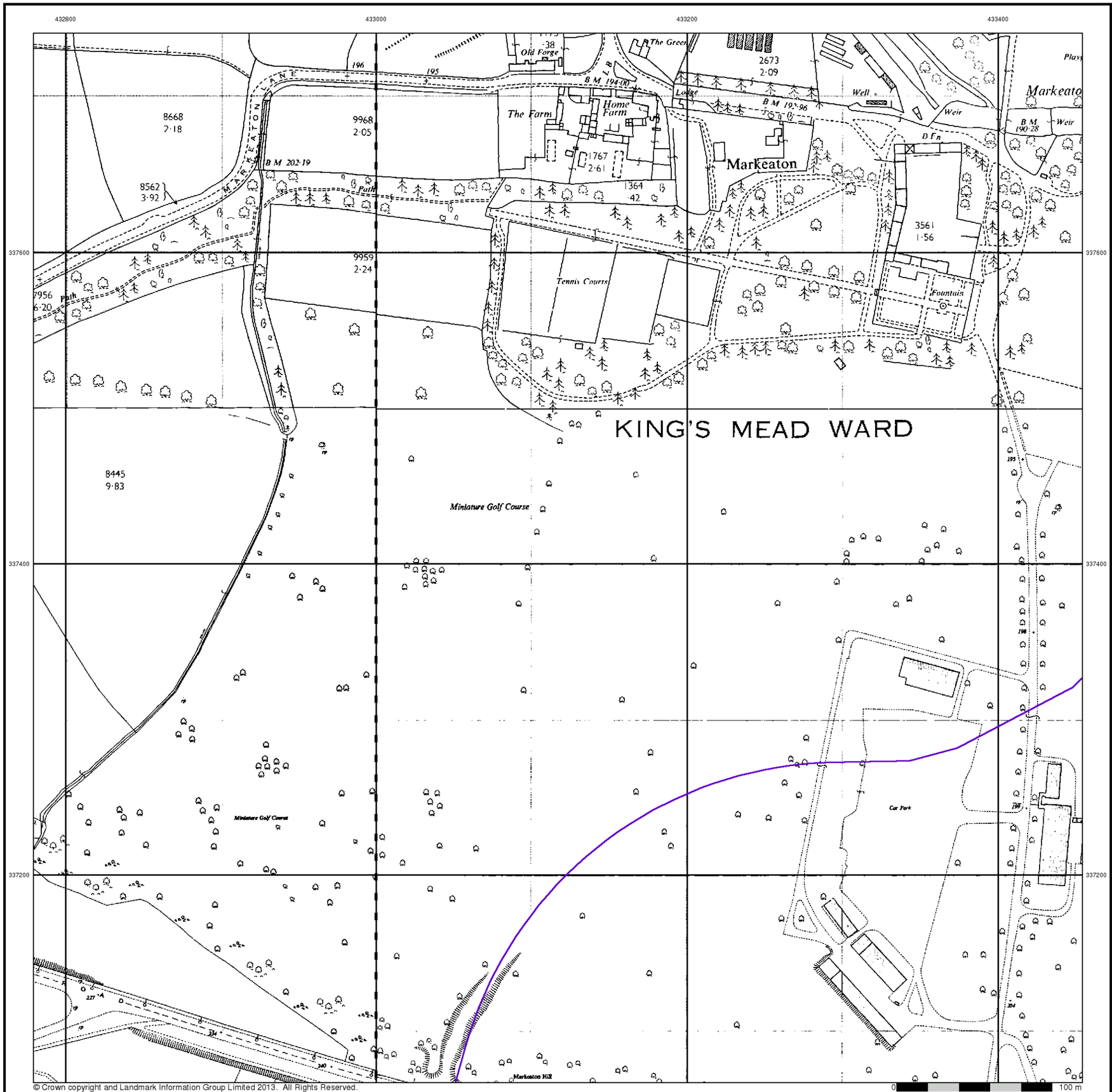
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National Grid Reference:	433480, 337040
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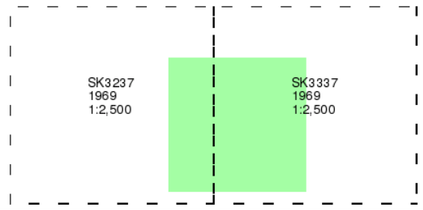
Ordnance Survey Plan

Published 1969

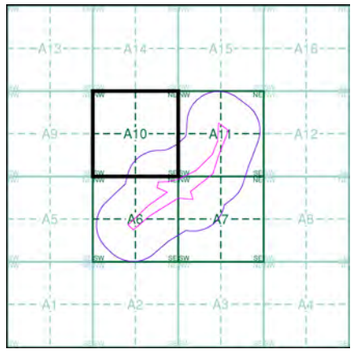
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A10



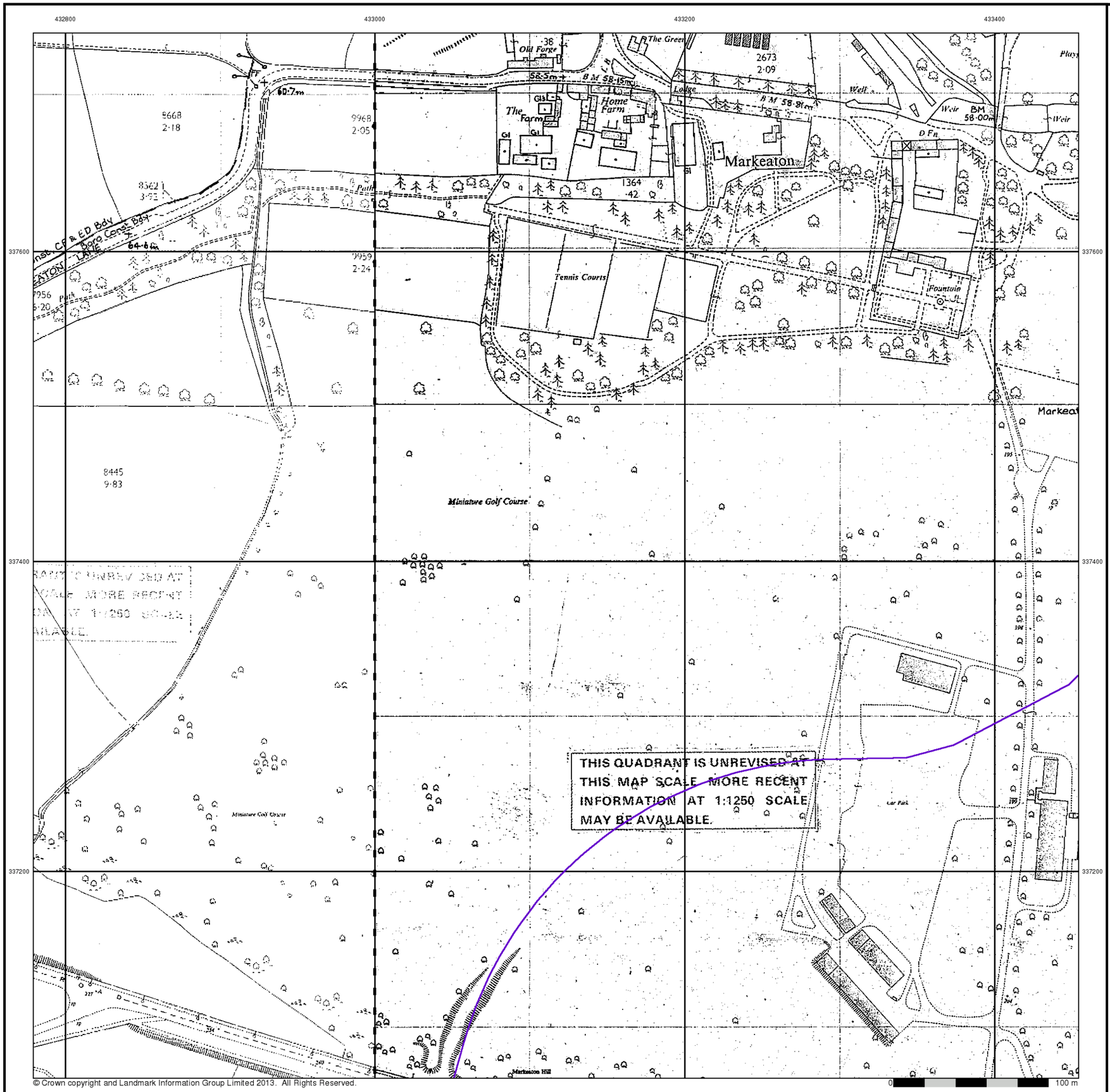
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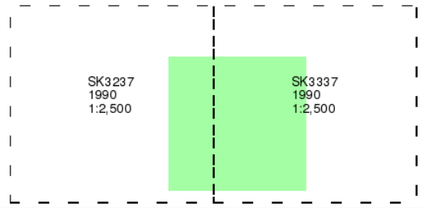
Additional SIMs

Published 1990

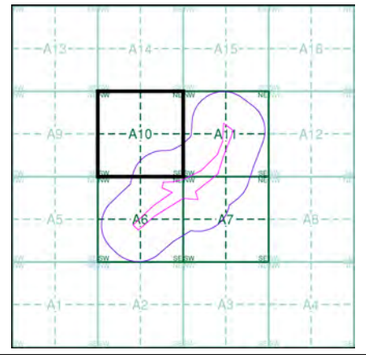
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



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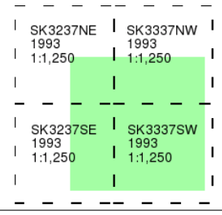
Large-Scale National Grid Data

Published 1993

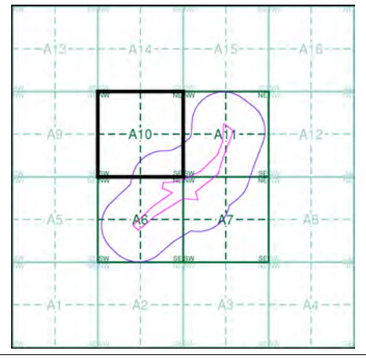
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
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Site Details

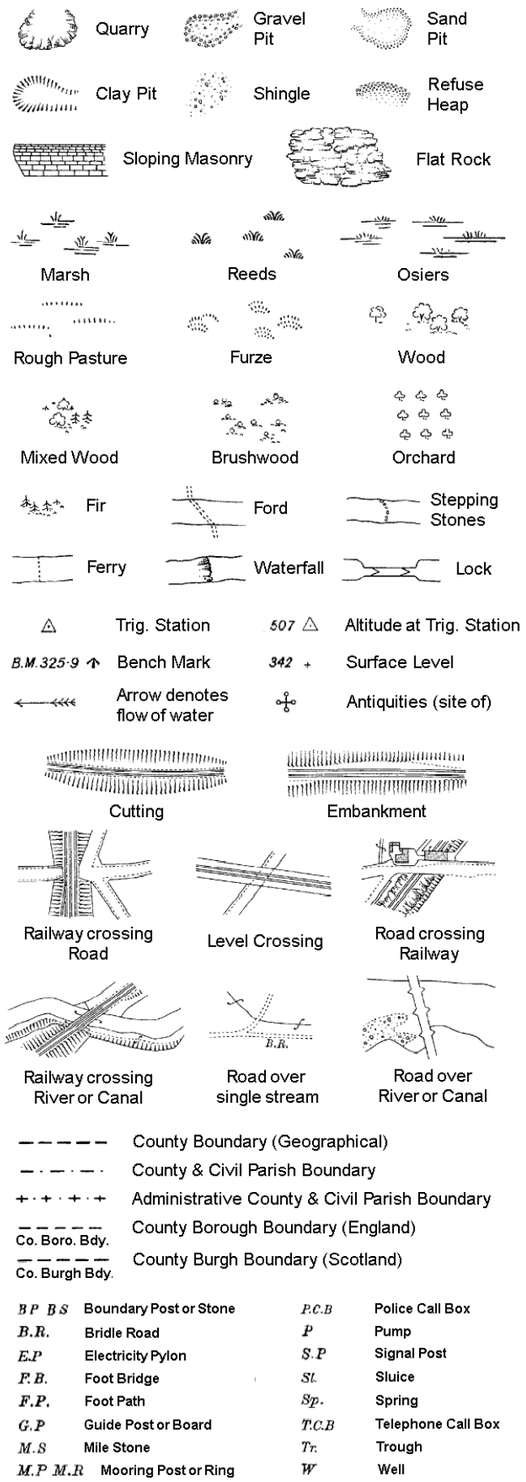
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Historical Mapping Legends

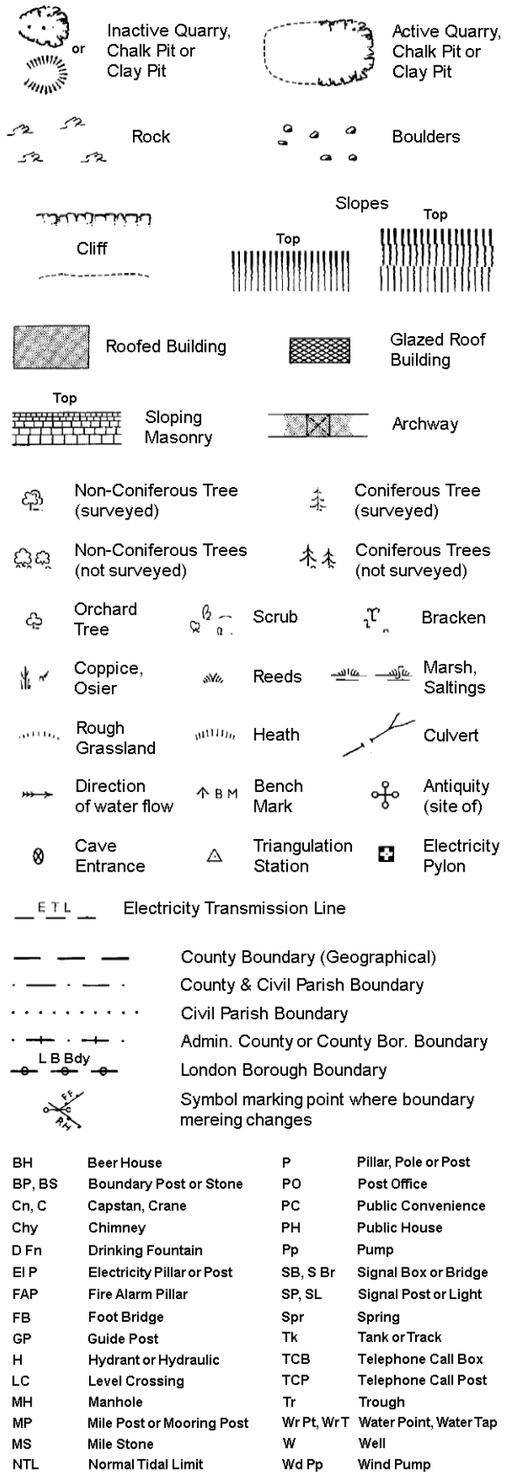
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

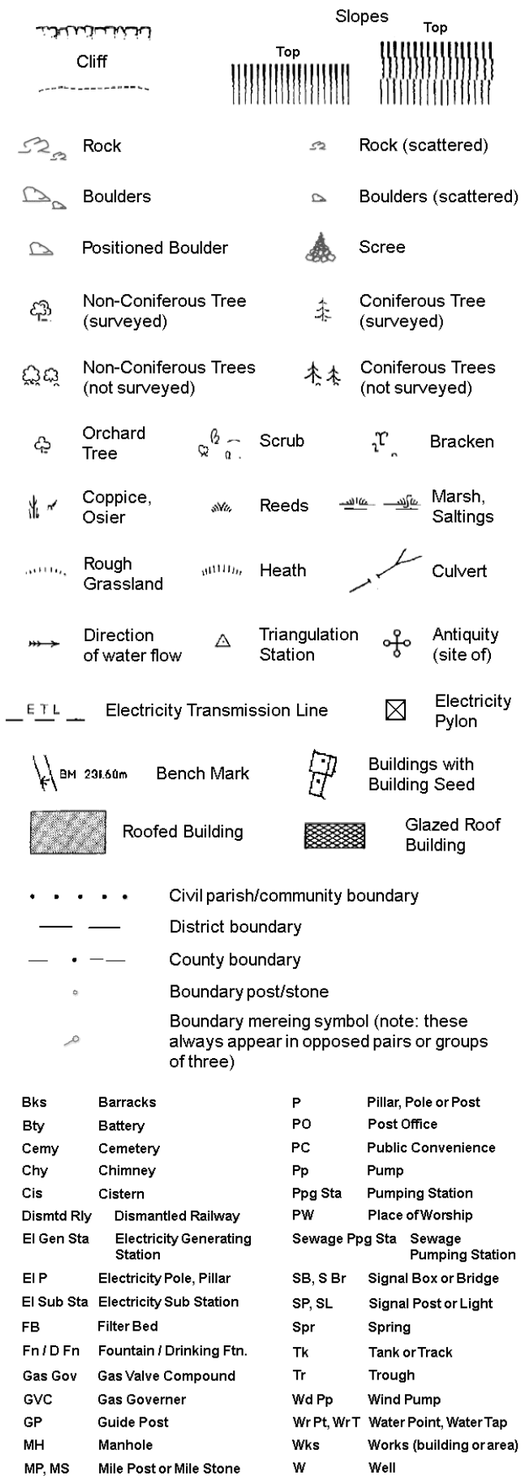
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

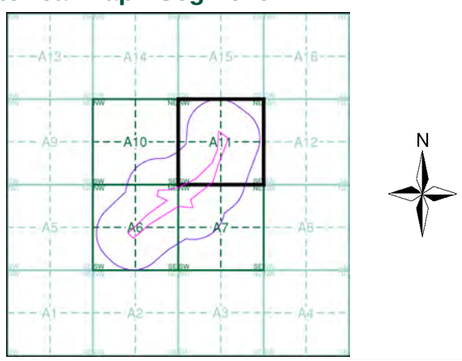
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1882 - 1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1914	4
Derbyshire	1:2,500	1937	5
Ordnance Survey Plan	1:1,250	1948 - 1955	6
Ordnance Survey Plan	1:1,250	1951 - 1969	7
Ordnance Survey Plan	1:1,250	1951 - 1978	8
Ordnance Survey Plan	1:2,500	1952 - 1969	9
Ordnance Survey Plan	1:2,500	1960	10
Ordnance Survey Plan	1:2,500	1965	11
Ordnance Survey Plan	1:1,250	1965 - 1969	12
Additional SIMs	1:1,250	1965 - 1987	13
Supply of Unpublished Survey Information	1:1,250	1976	14
Additional SIMs	1:1,250	1978 - 1990	15
Additional SIMs	1:2,500	1990	16
Additional SIMs	1:1,250	1990	17
Large-Scale National Grid Data	1:1,250	1993	18

Historical Map - Segment A11



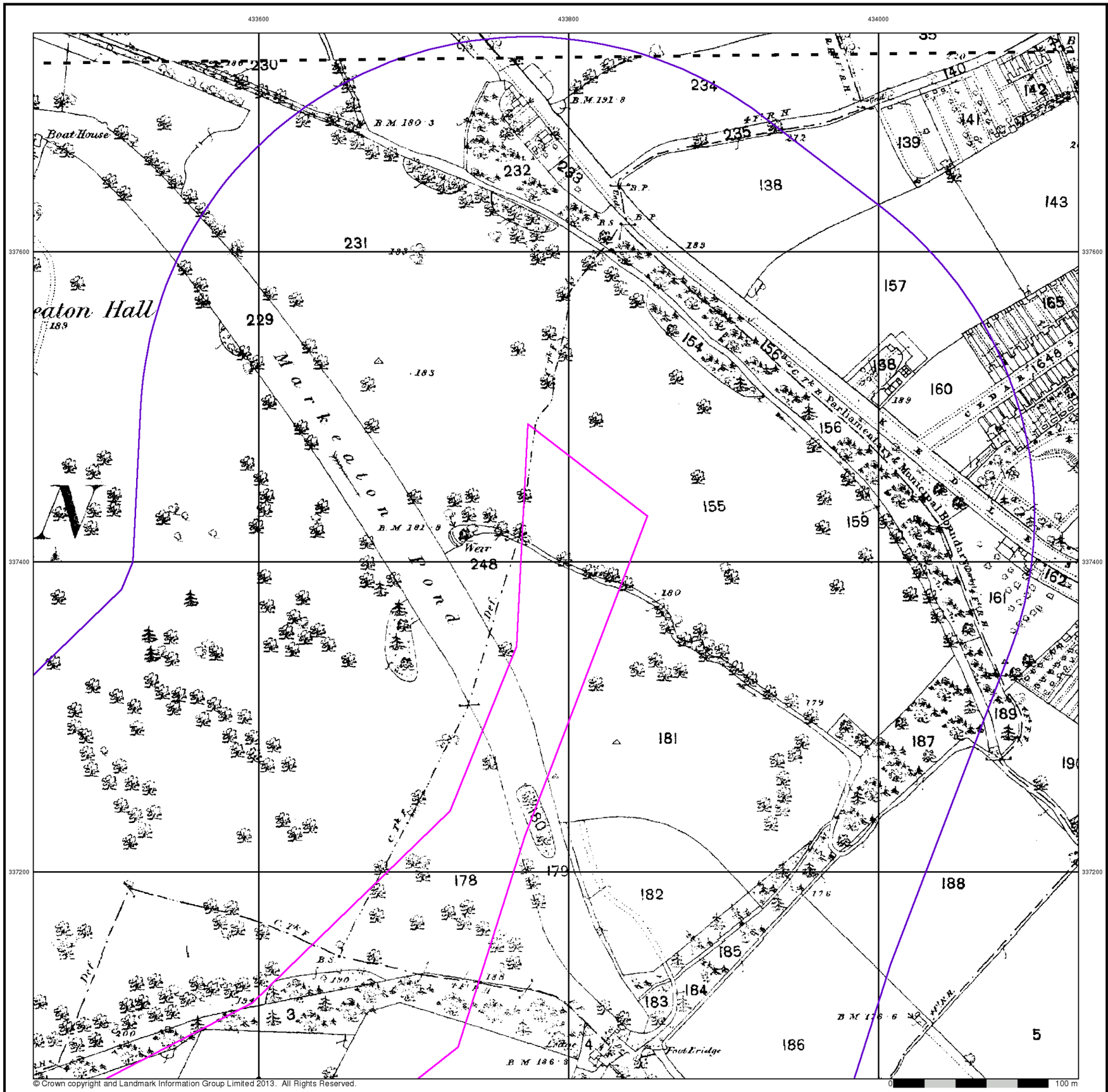
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Derbyshire

Published 1882 - 1883

Source map scale - 1:2,500

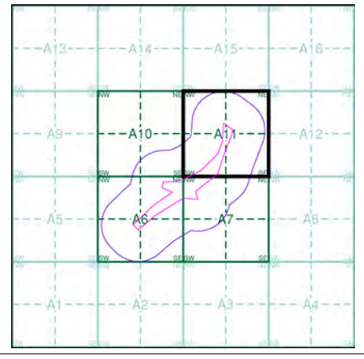
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

049_08
1882
1:2,500

049_12
1883
1:2,500

Historical Map - Segment A11



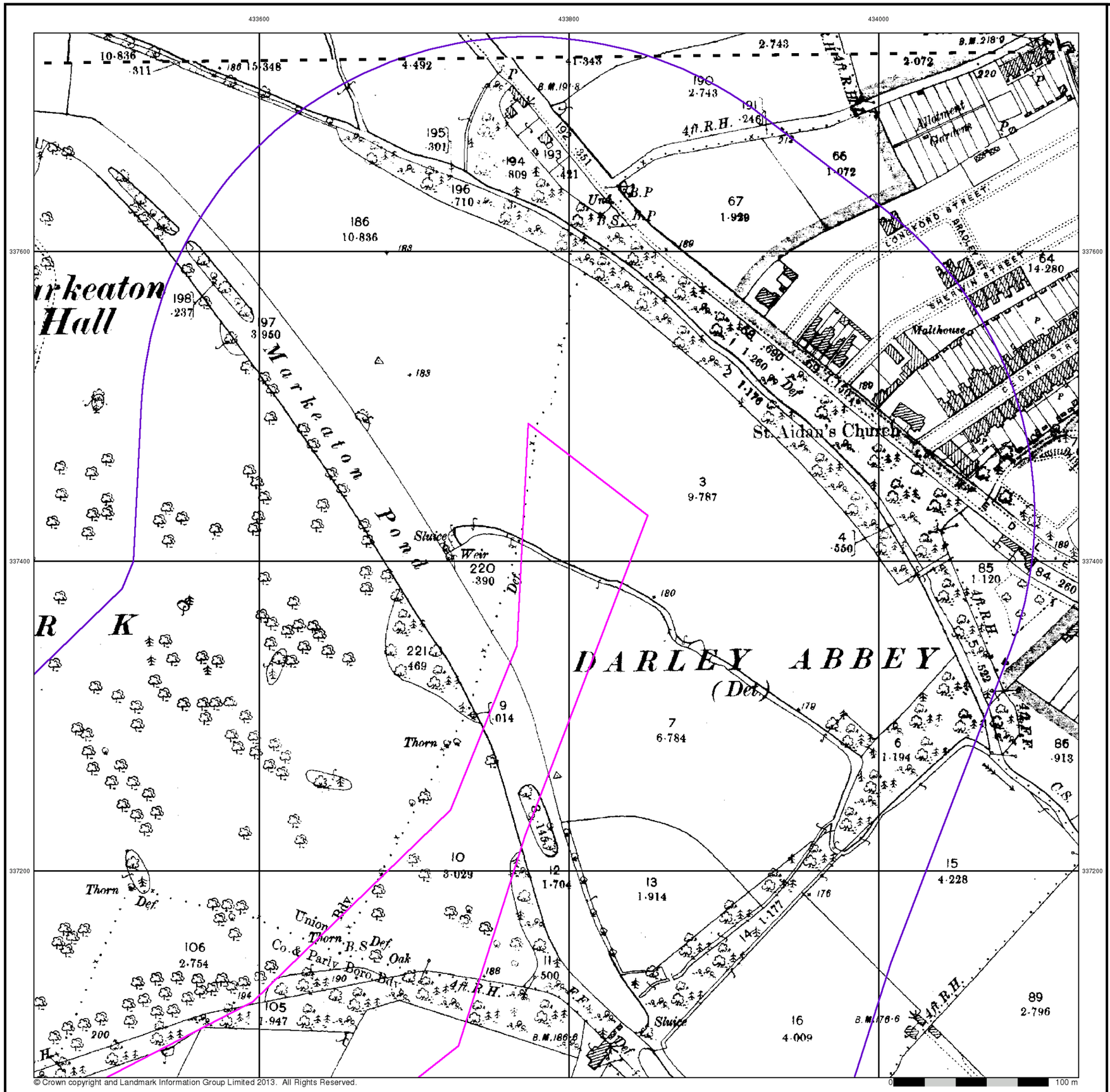
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Derbyshire

Published 1901

Source map scale - 1:2,500

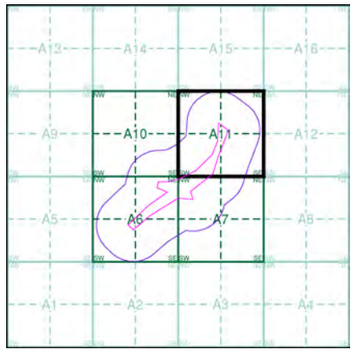
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Map Name(s) and Date(s)

049_08
1901
1:2,500

049_12
1901
1:2,500

Historical Map - Segment A11



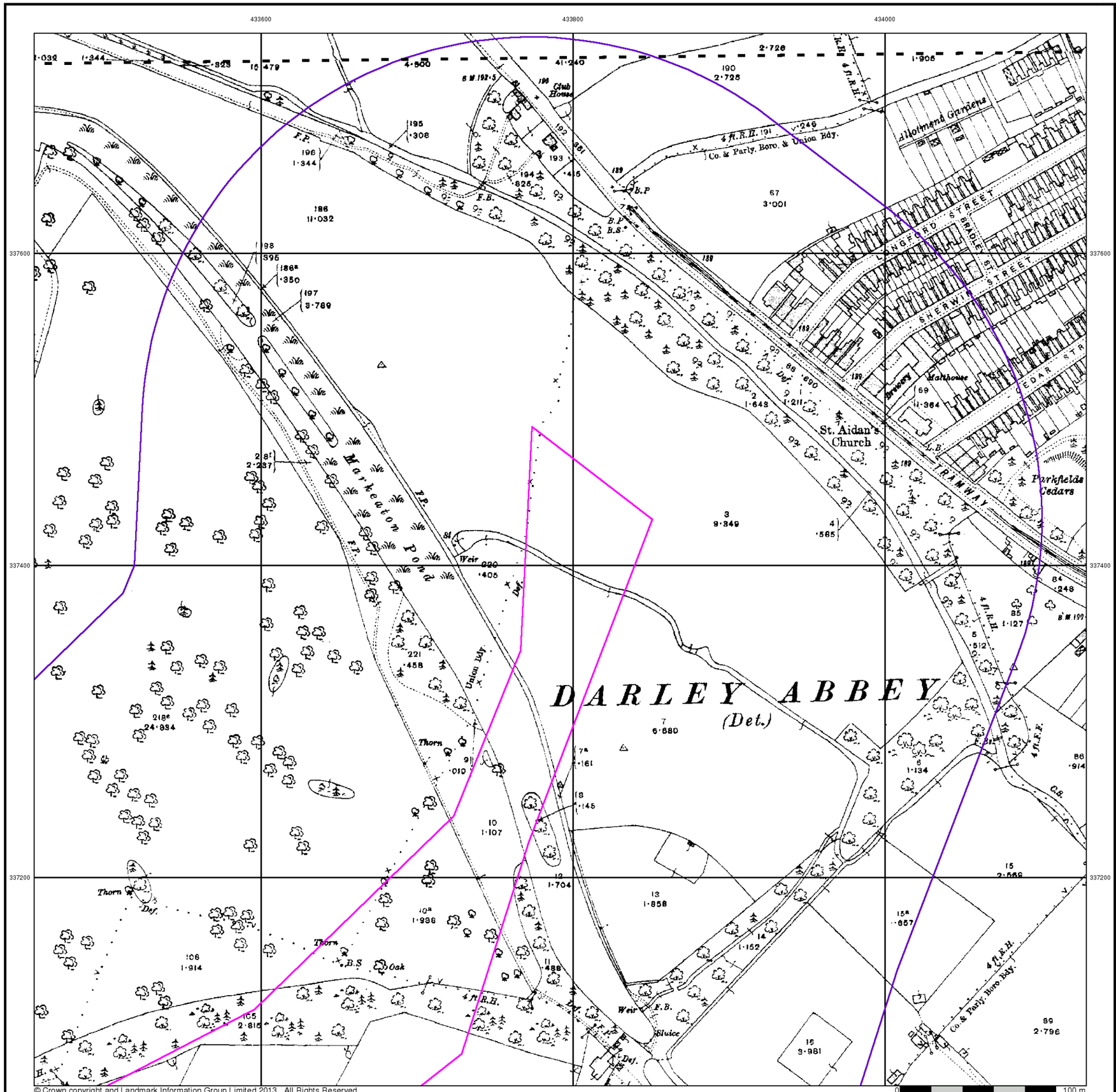
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Derbyshire

Published 1914

Source map scale - 1:2,500

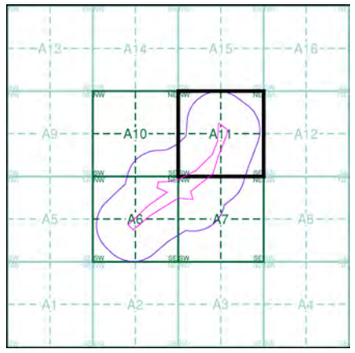
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Map Name(s) and Date(s)

049_08
1914
1:2,500

049_12
1914
1:2,500

Historical Map - Segment A11



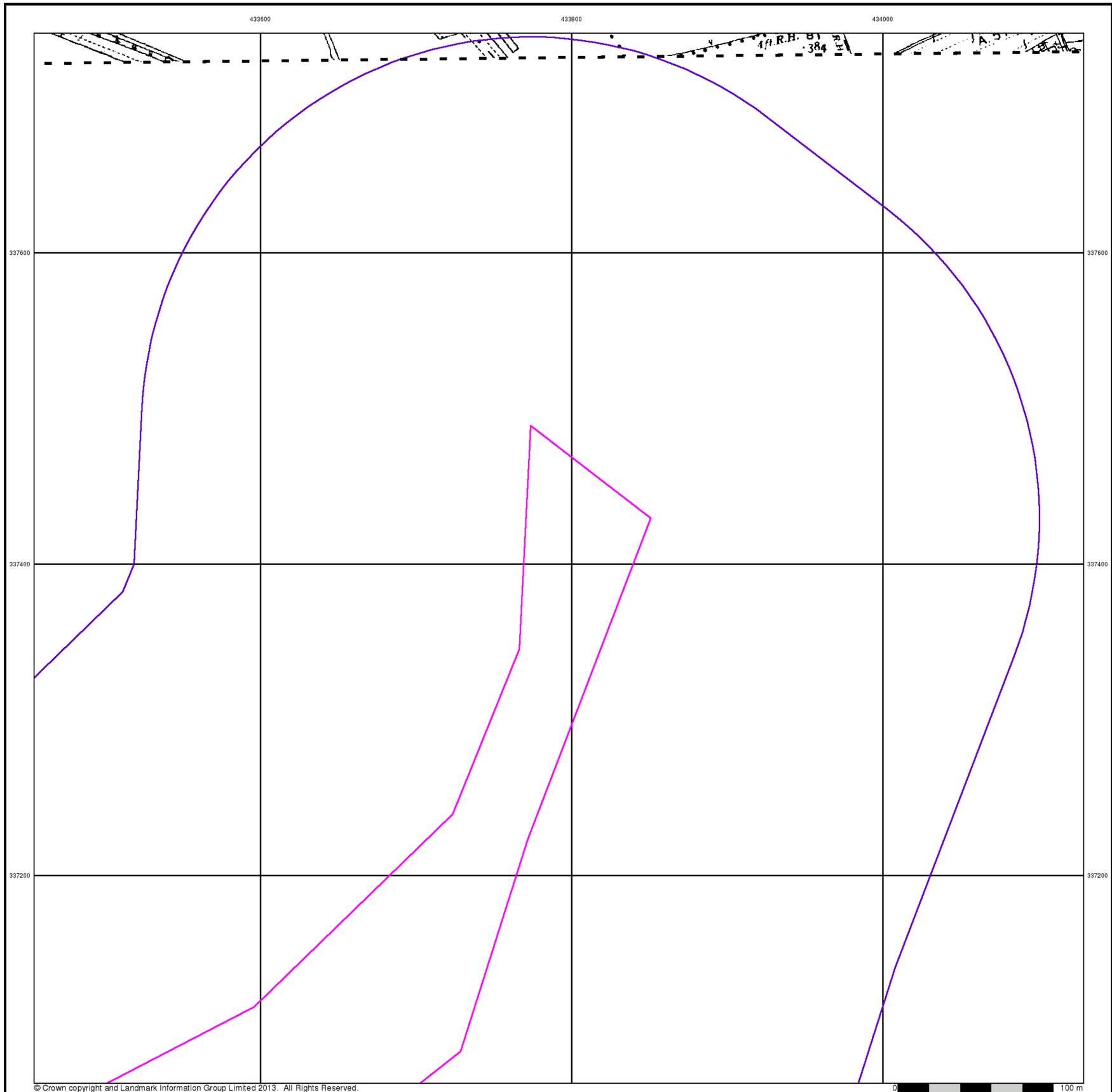
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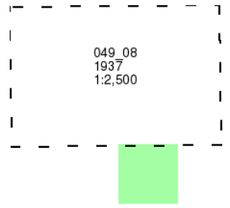
Derbyshire

Published 1937

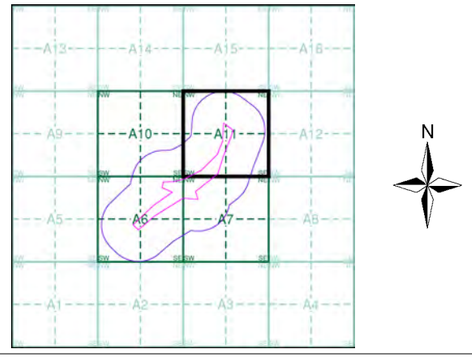
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

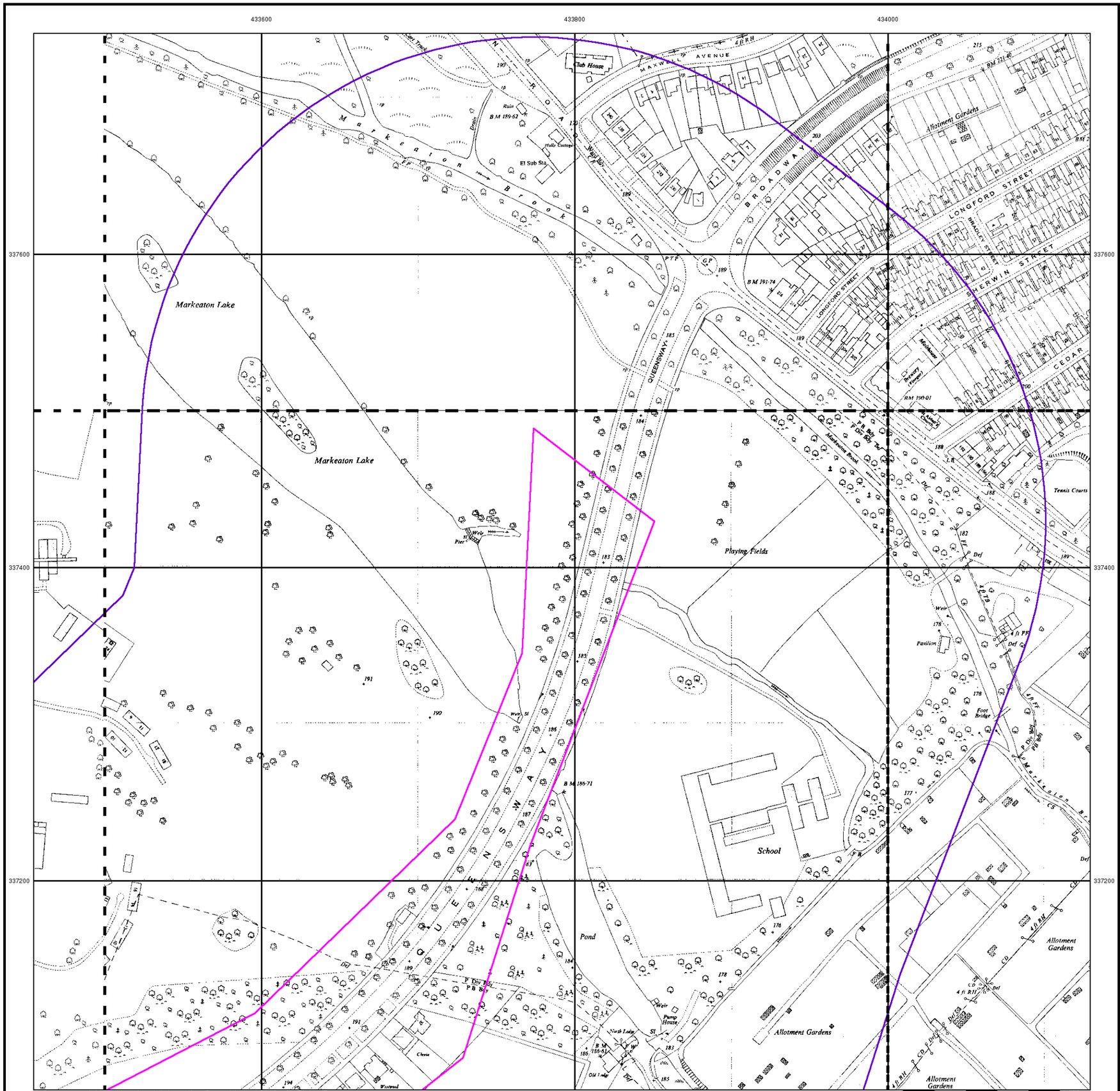
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
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Site Area (Ha):	10.53
Search Buffer (m):	250

Site Details

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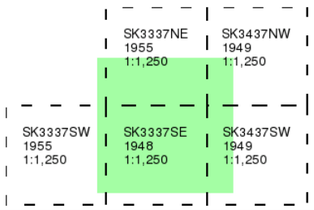
Ordnance Survey Plan

Published 1948 - 1955

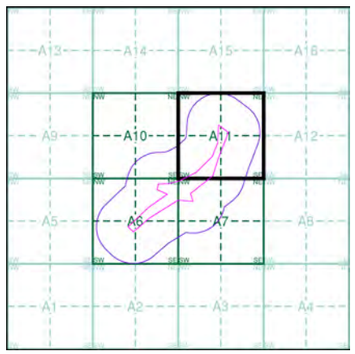
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A11



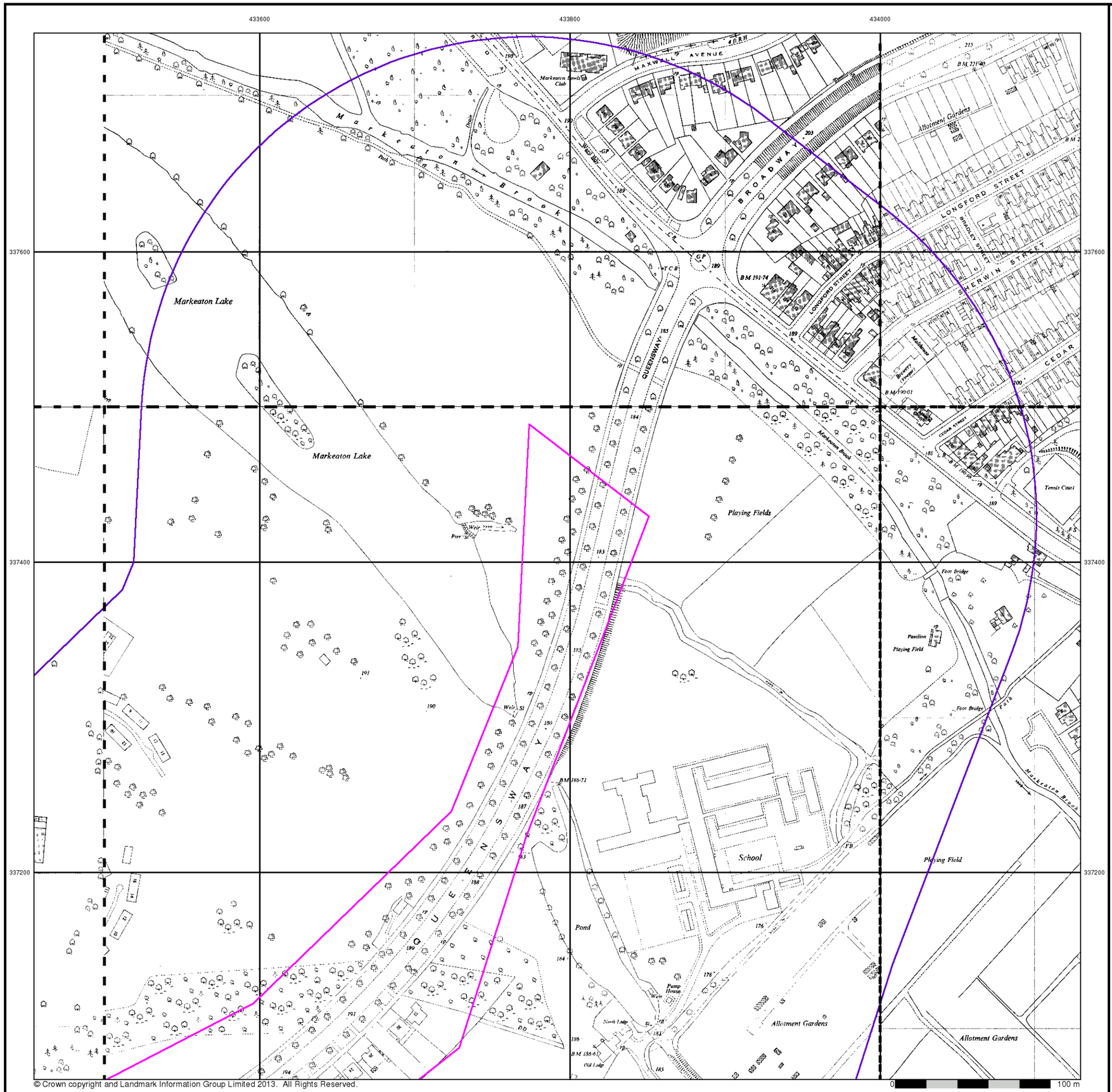
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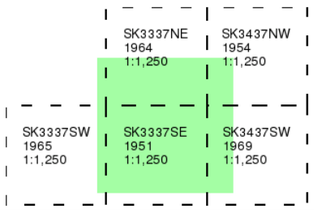
Ordnance Survey Plan

Published 1951 - 1969

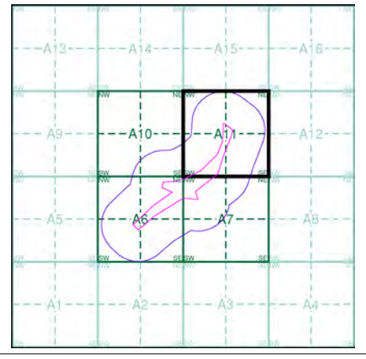
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
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Ordnance Survey Plan

Published 1951 - 1978

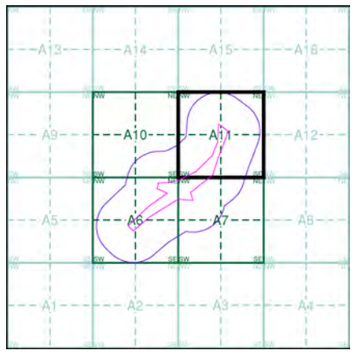
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Map Name(s) and Date(s)

SK3337NE 1978 1:1,250
SK3437NW 1959 1:1,250
SK3337SE 1951 1:1,250

Historical Map - Segment A11



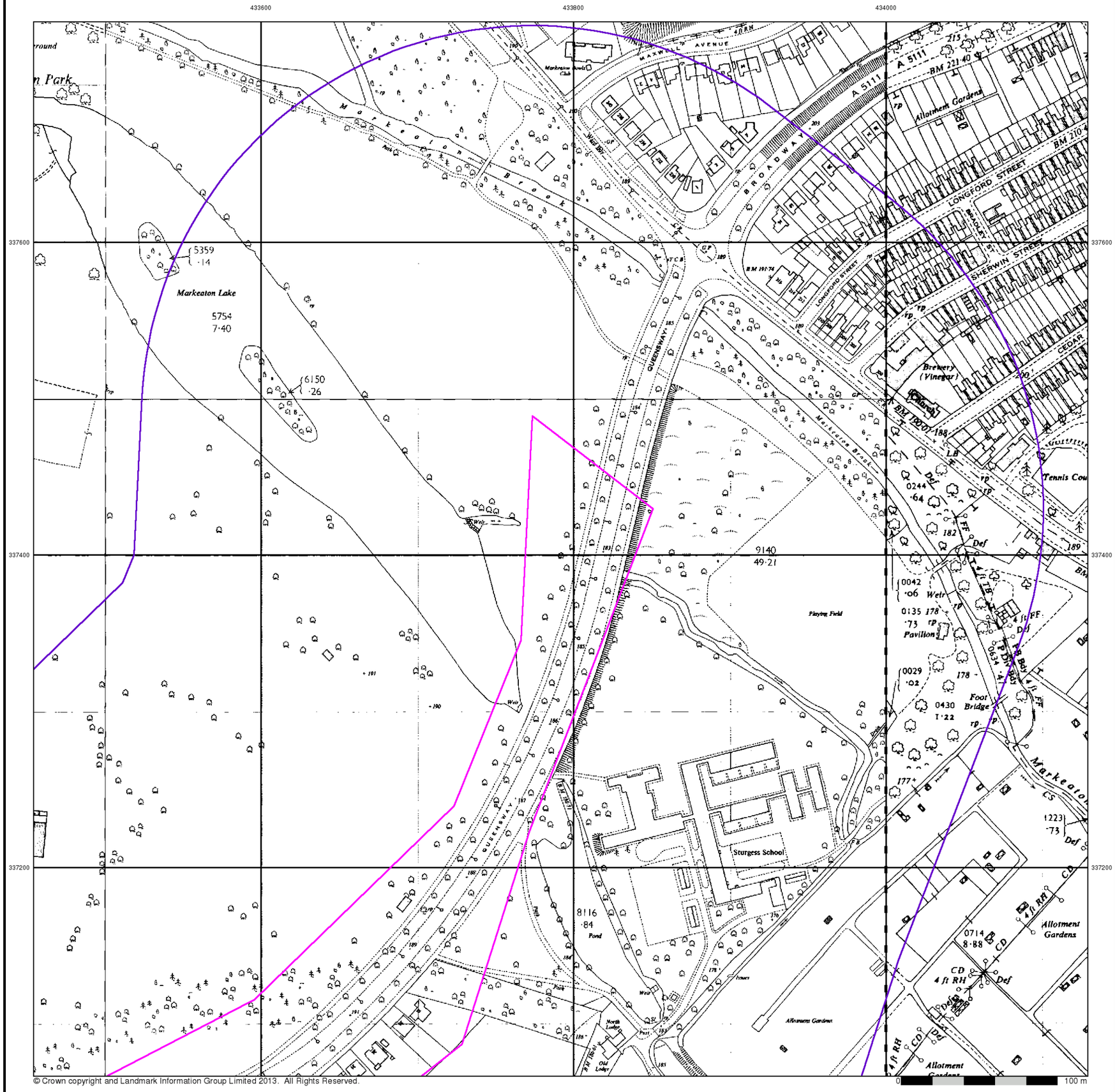
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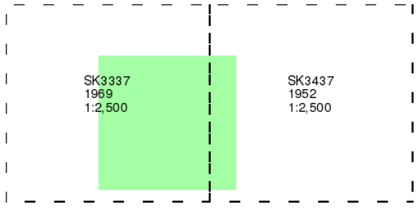
Ordnance Survey Plan

Published 1952 - 1969

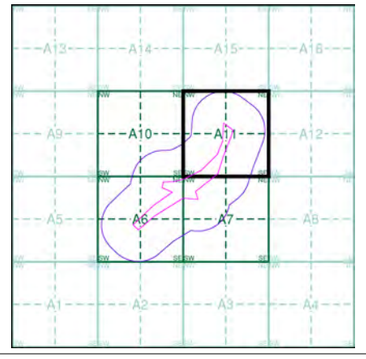
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

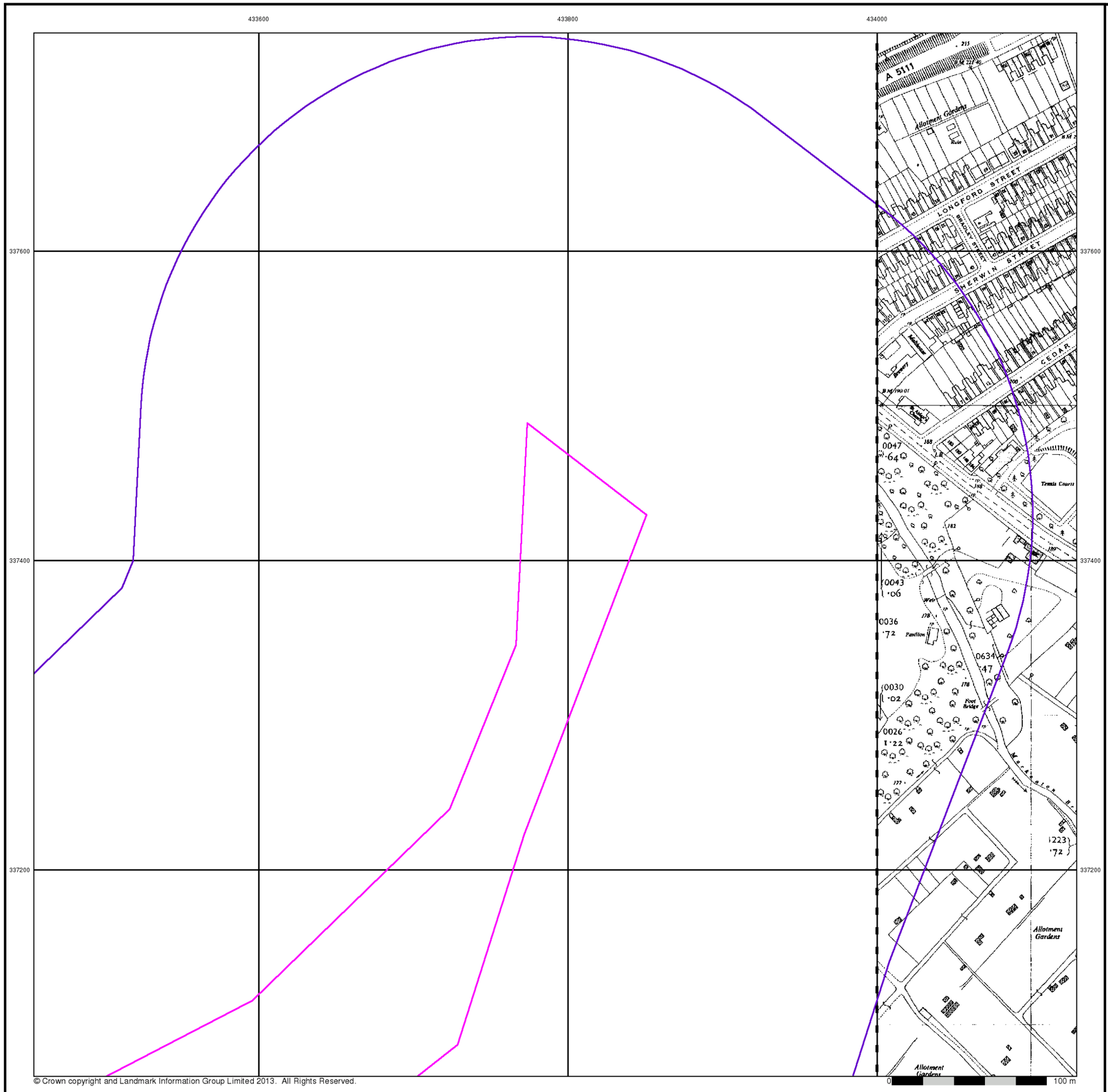
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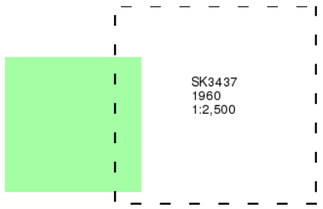
Ordnance Survey Plan

Published 1960

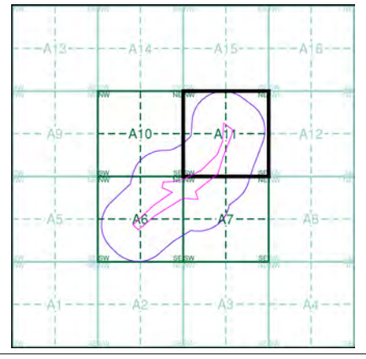
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

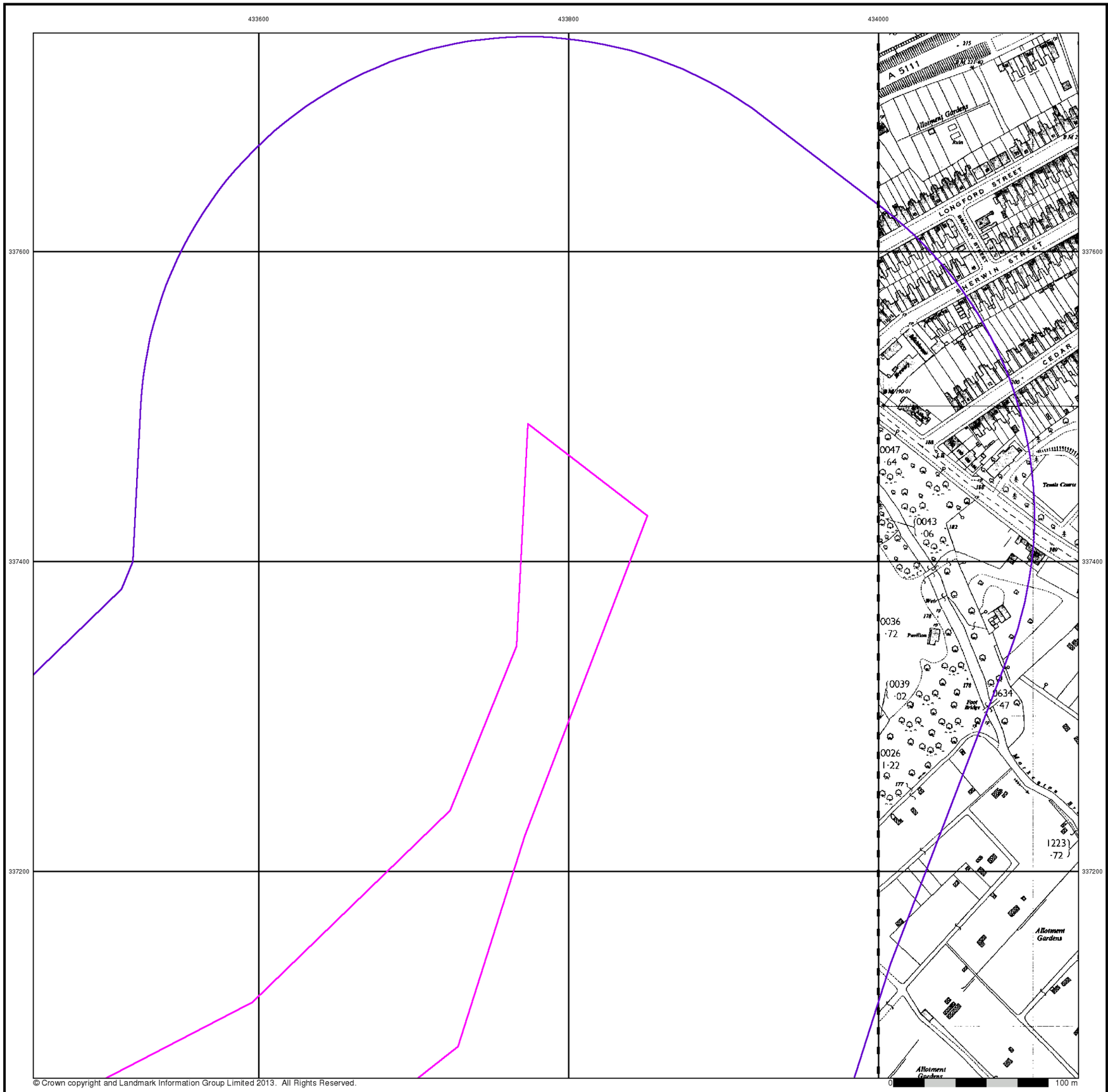
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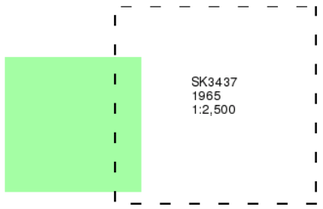
Ordnance Survey Plan

Published 1965

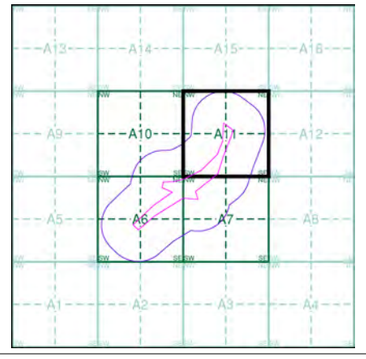
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

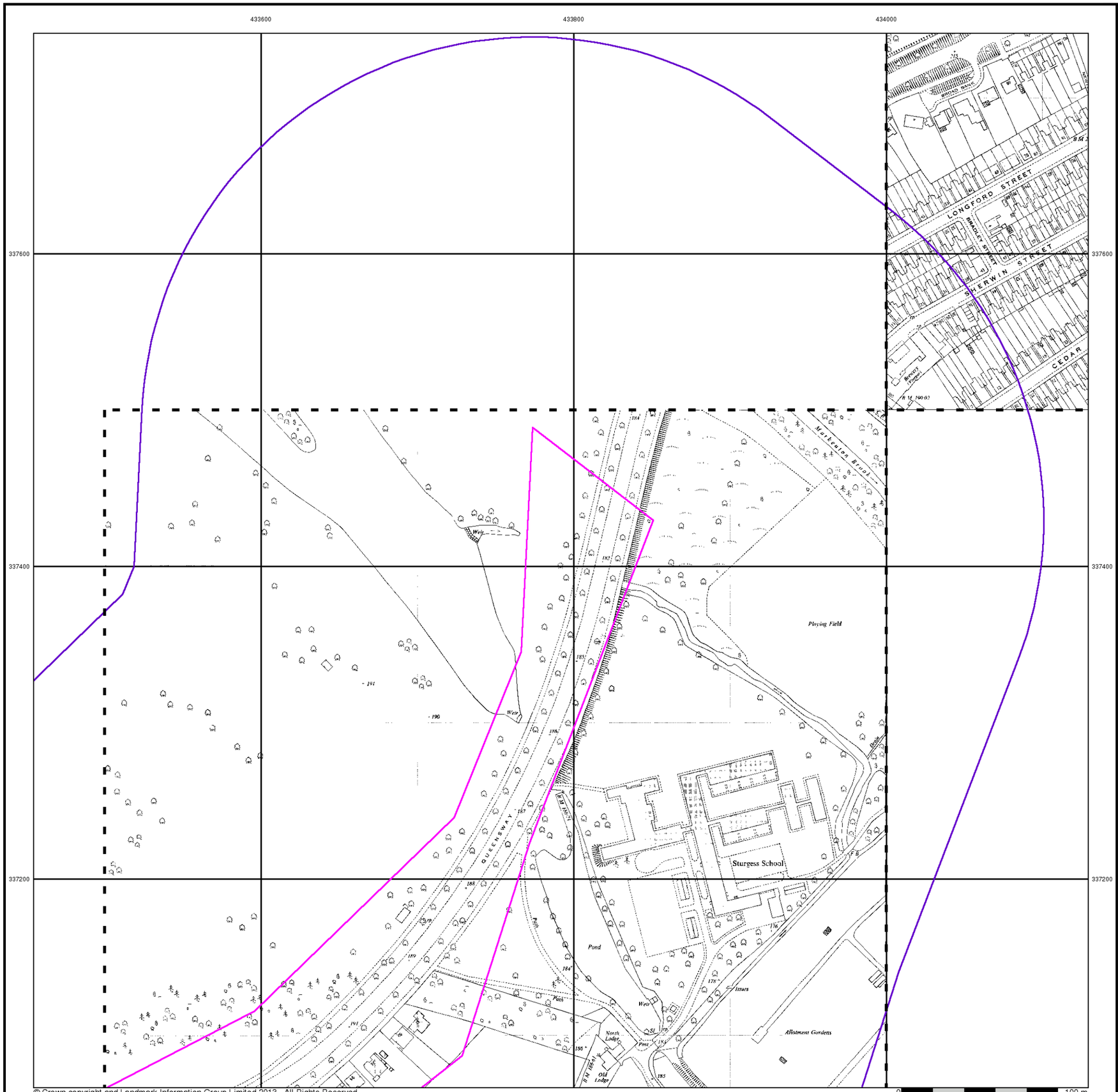
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Search Buffer (m):	250

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Ordnance Survey Plan

Published 1965 - 1969

Source map scale - 1:1,250

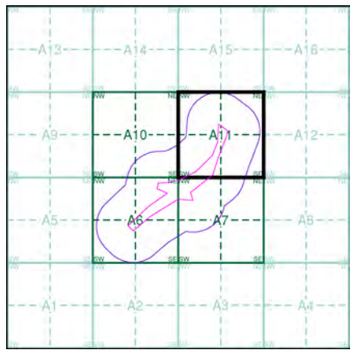
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Map Name(s) and Date(s)

SK3437NW
1969
1:1,250

SK3337SE
1965
1:1,250

Historical Map - Segment A11



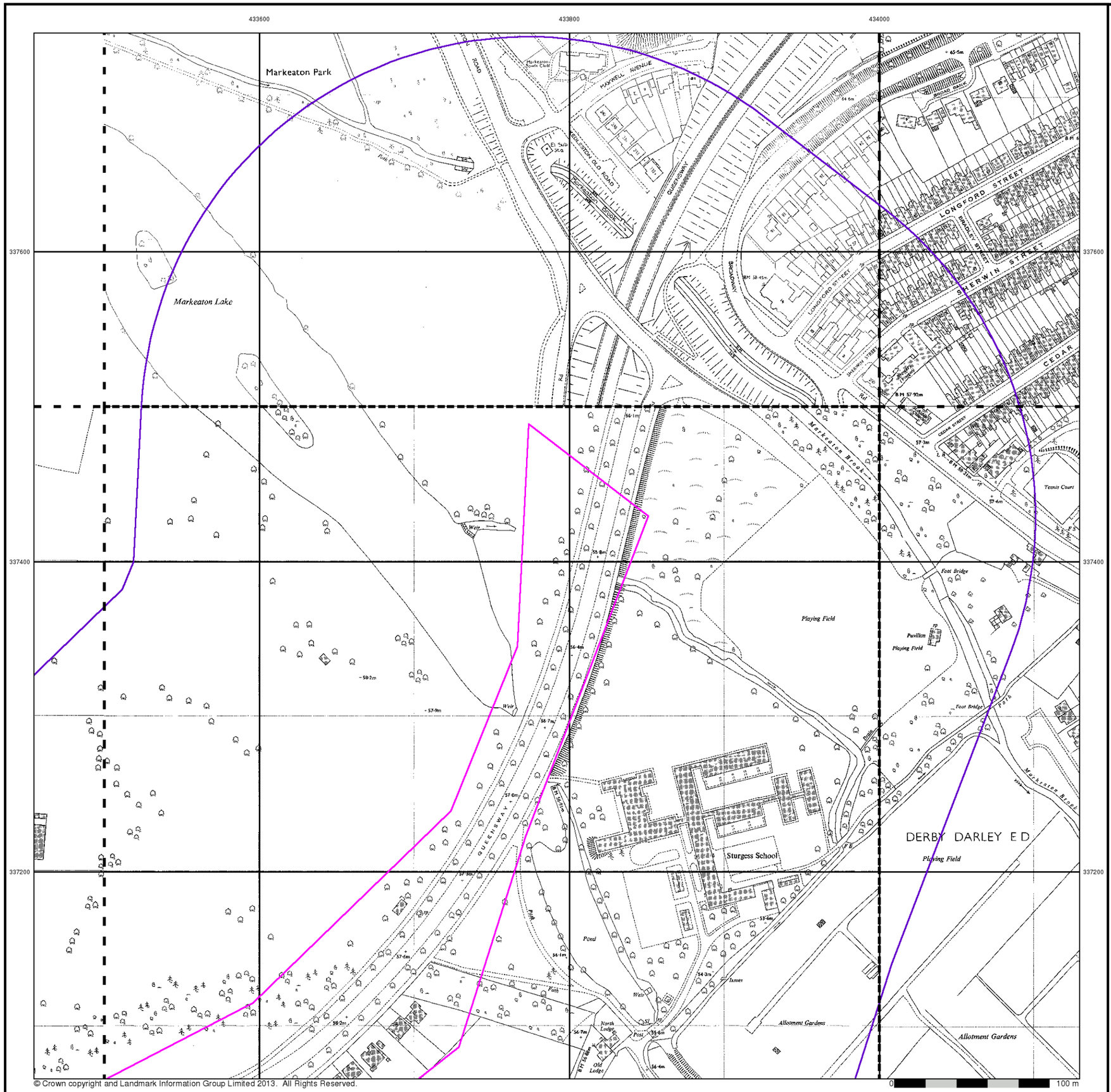
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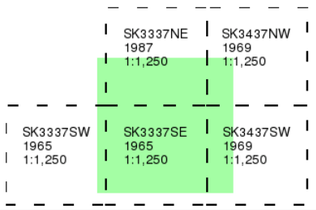
Additional SIMs

Published 1965 - 1987

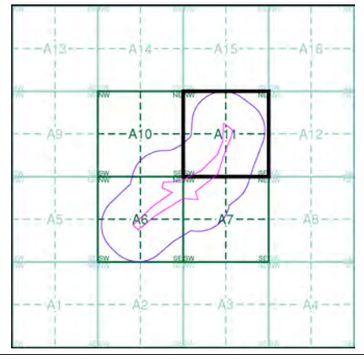
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

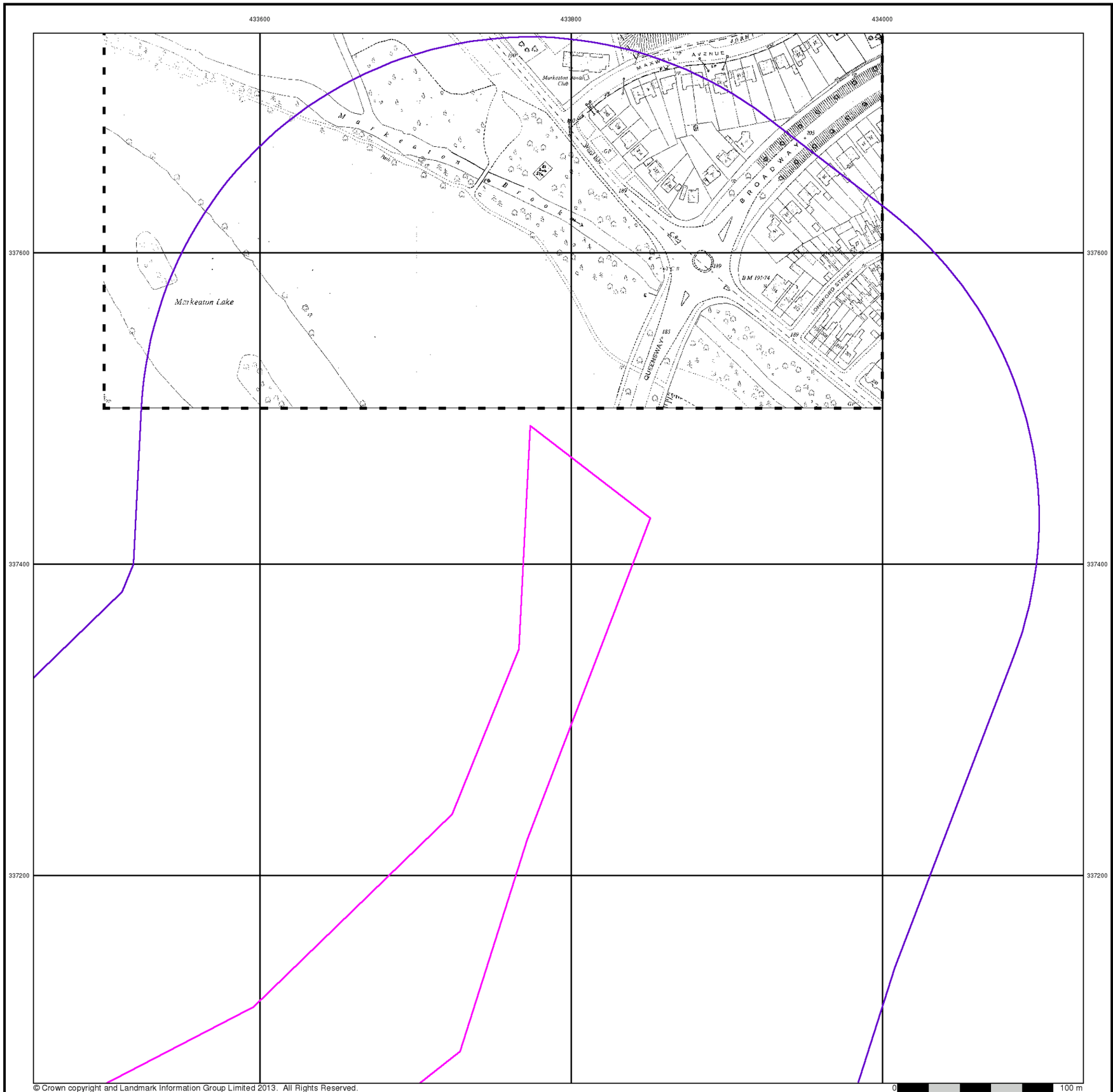
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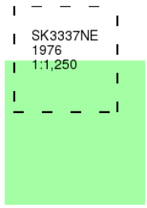
Supply of Unpublished Survey Information

Published 1976

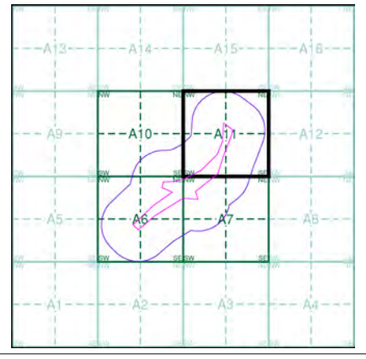
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A11



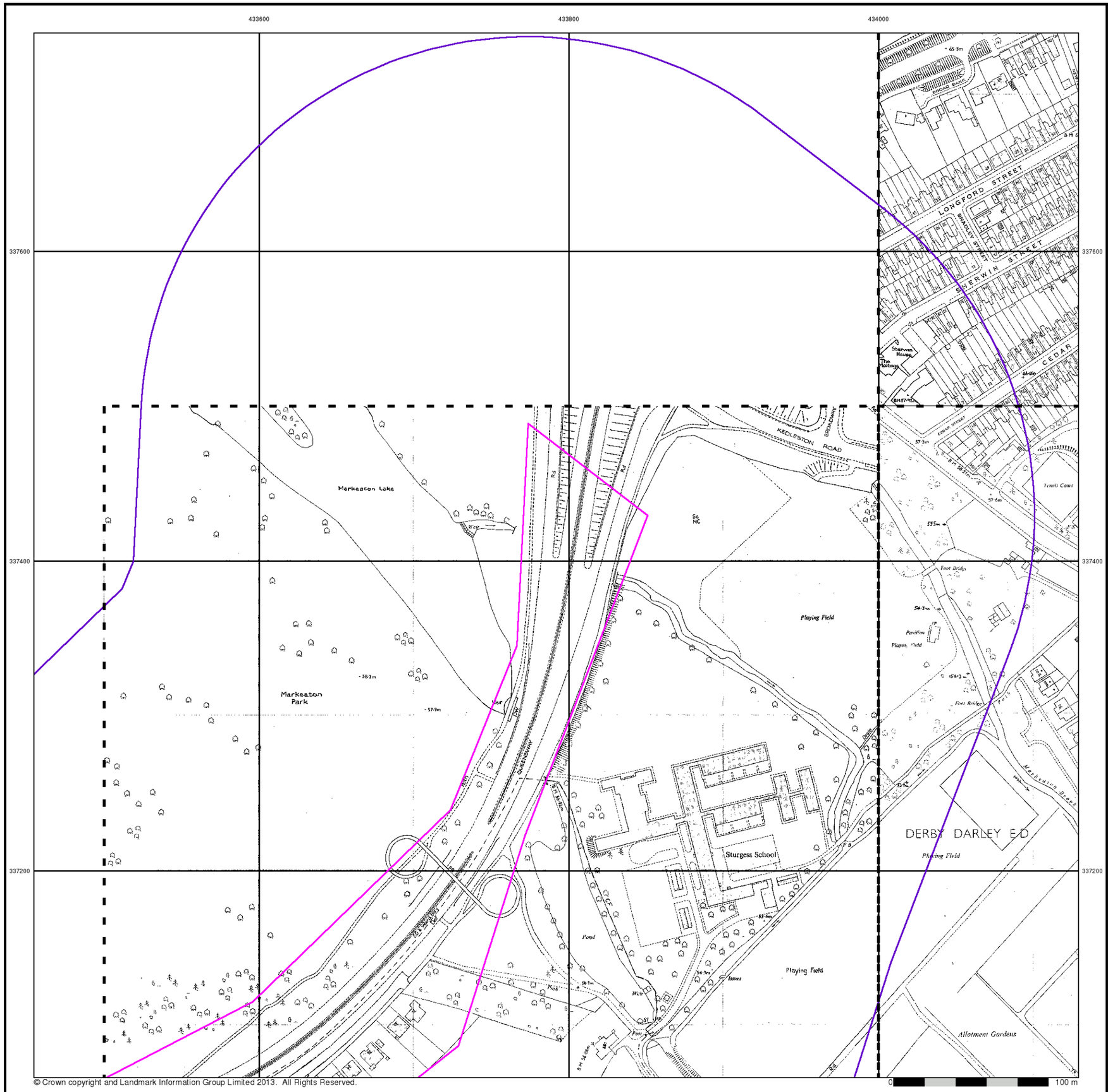
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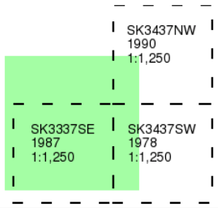
Additional SIMs

Published 1978 - 1990

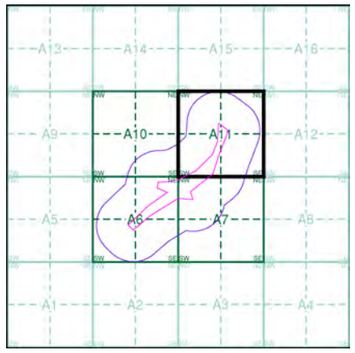
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A11



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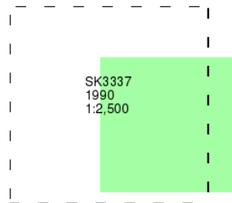
Additional SIMs

Published 1990

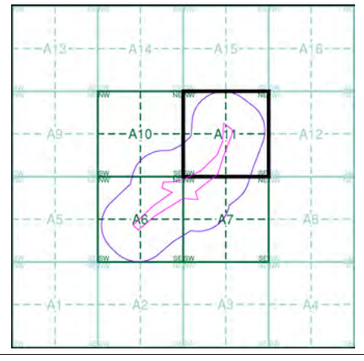
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Map Name(s) and Date(s)



Historical Map - Segment A11



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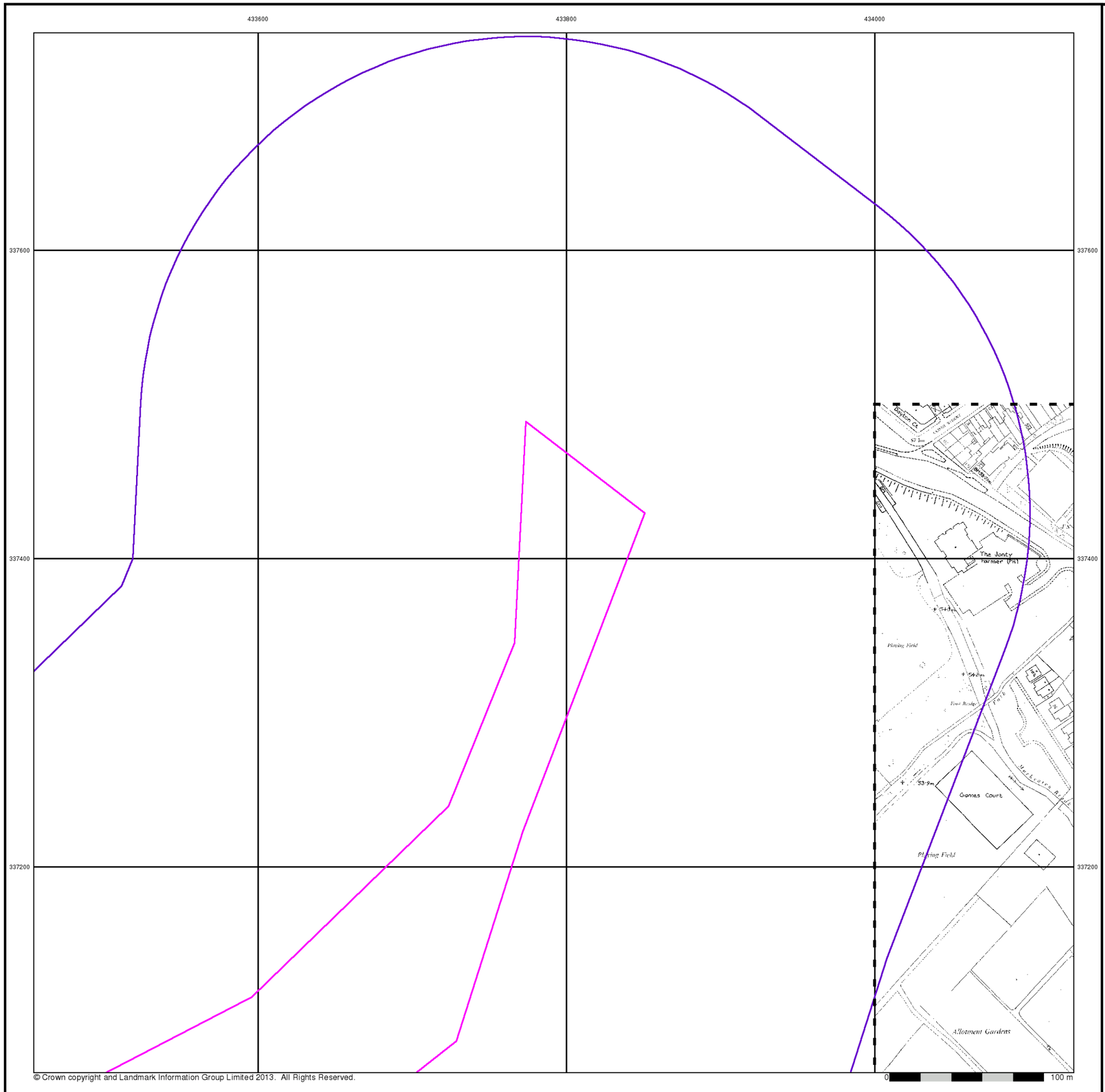
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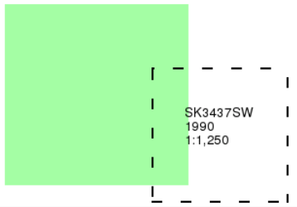
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Published 1990

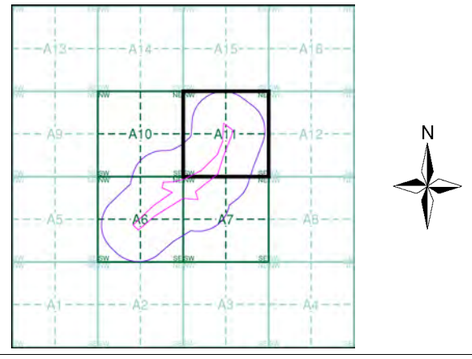
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

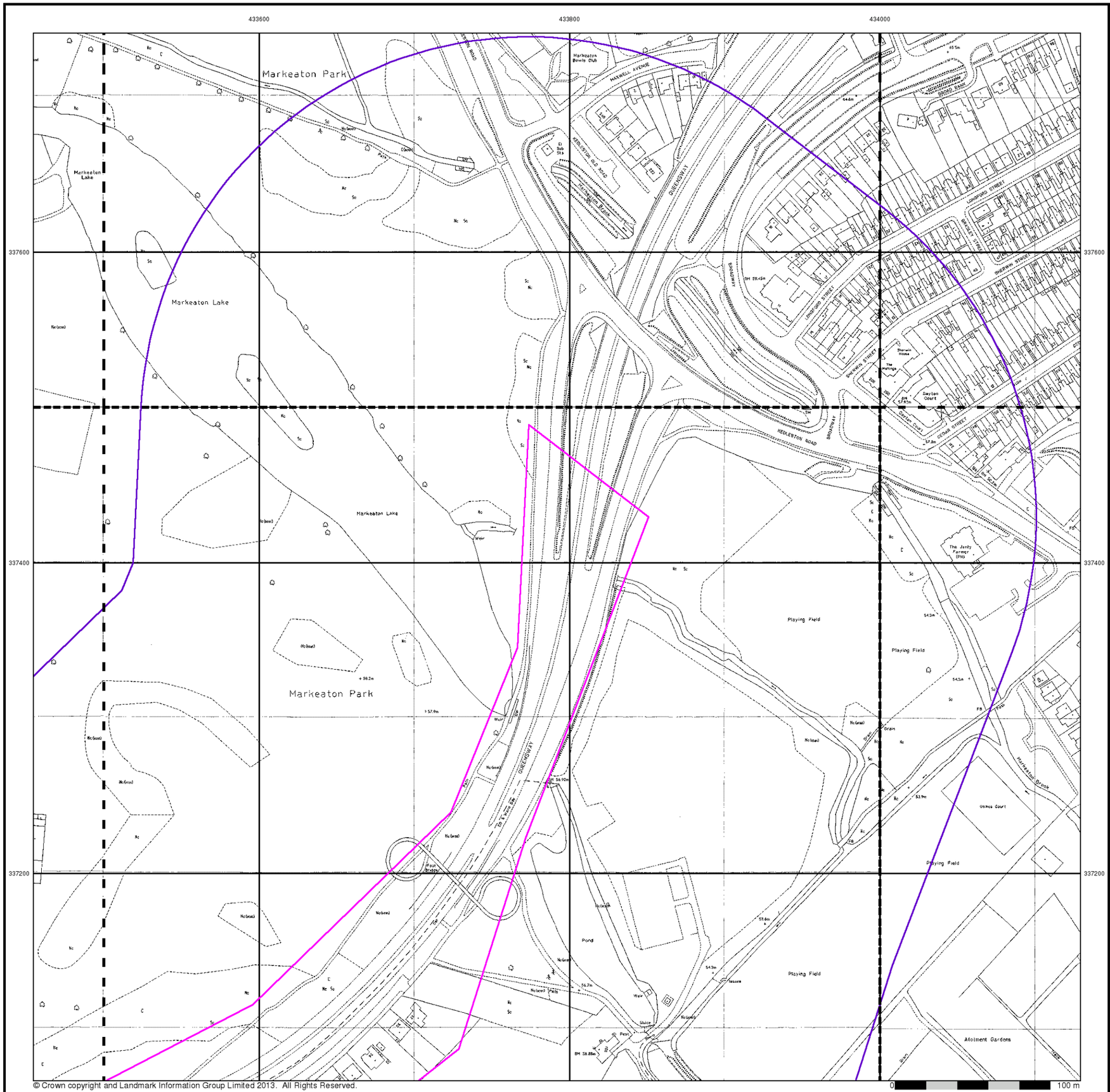
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Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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Large-Scale National Grid Data

Published 1993

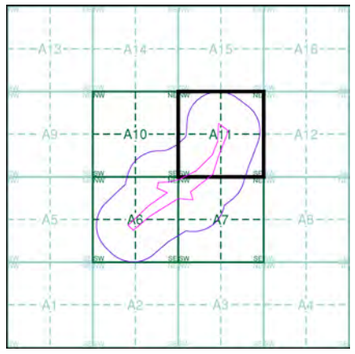
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3337NW 1993 1:1,250	SK3337NE 1993 1:1,250	SK3437NW 1993 1:1,250
SK3337SW 1993 1:1,250	SK3337SE 1993 1:1,250	SK3437SW 1993 1:1,250

Historical Map - Segment A11



Order Details

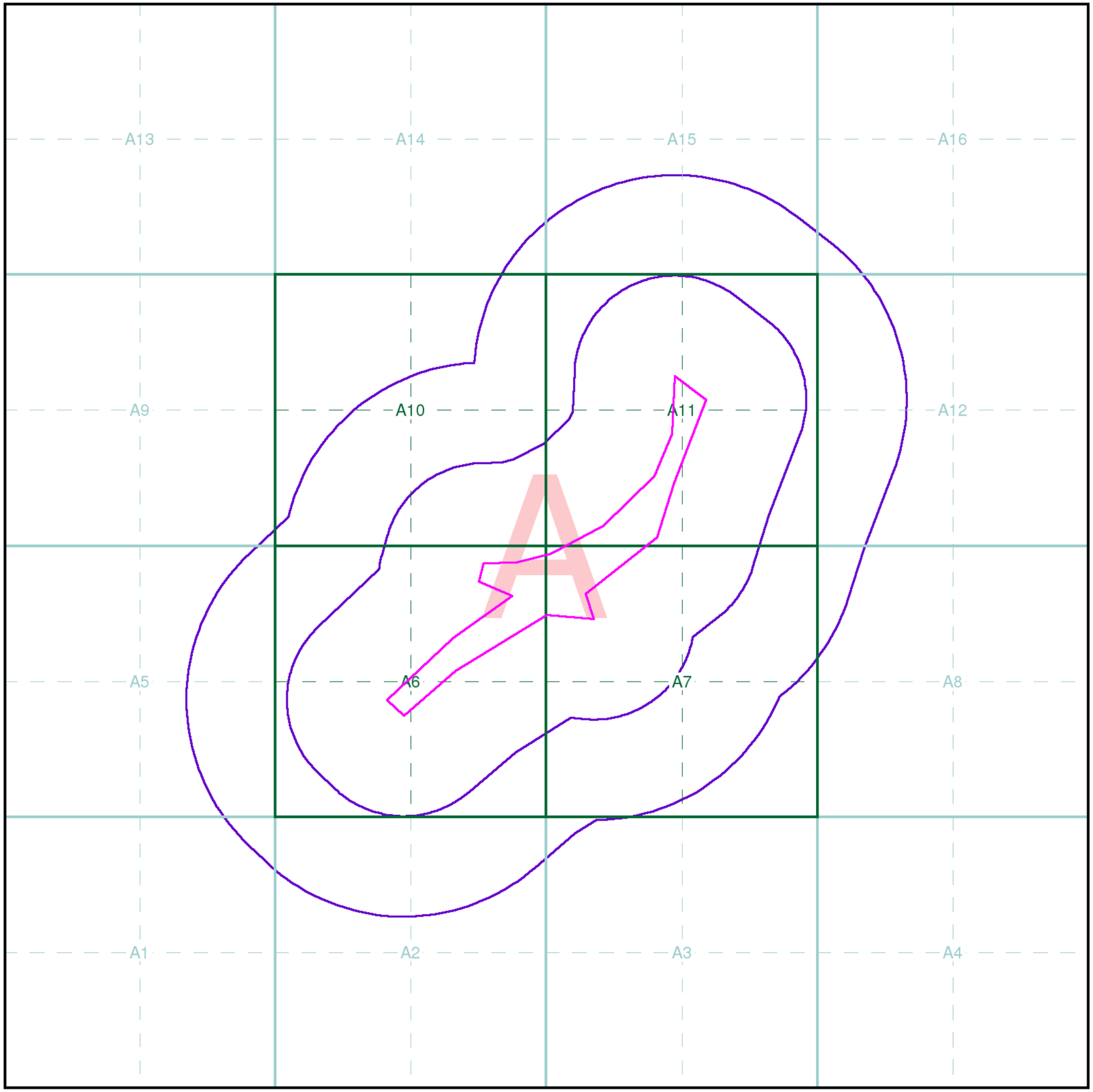
Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433480, 337040
Slice:	A
Site Area (Ha):	10.53
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

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Prepared For

URS
Royal Court
Basil Close
Chesterfield
Derbyshire
S41 7SL

Client Details

Ms J Dawson, URS Infrastructure & Environment UK Ltd, Royal Court, Basil Close, Chesterfield, Derbyshire, S41 7SL

Order Details

Order Number:	60387091_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	433500, 337010
Site Area (Ha):	10.53
Search Buffer (m):	500

Site Details

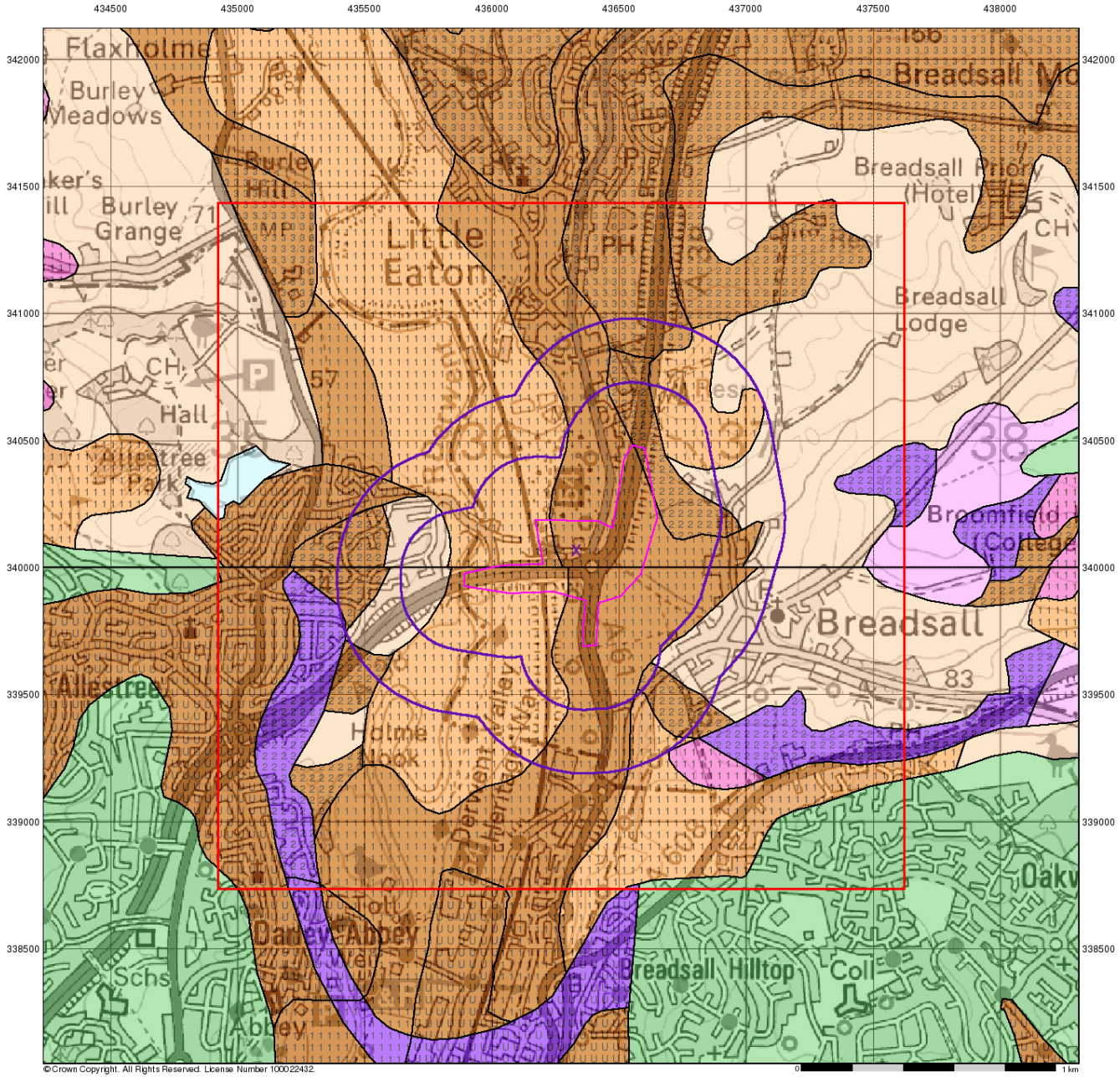
Site at, Derby, City of Derby

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Appendix D-3

Envirocheck Report – Little Eaton



Groundwater Vulnerability

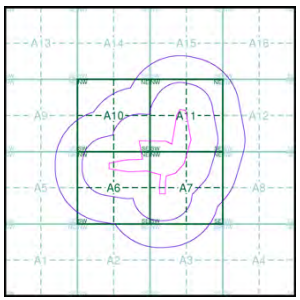
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



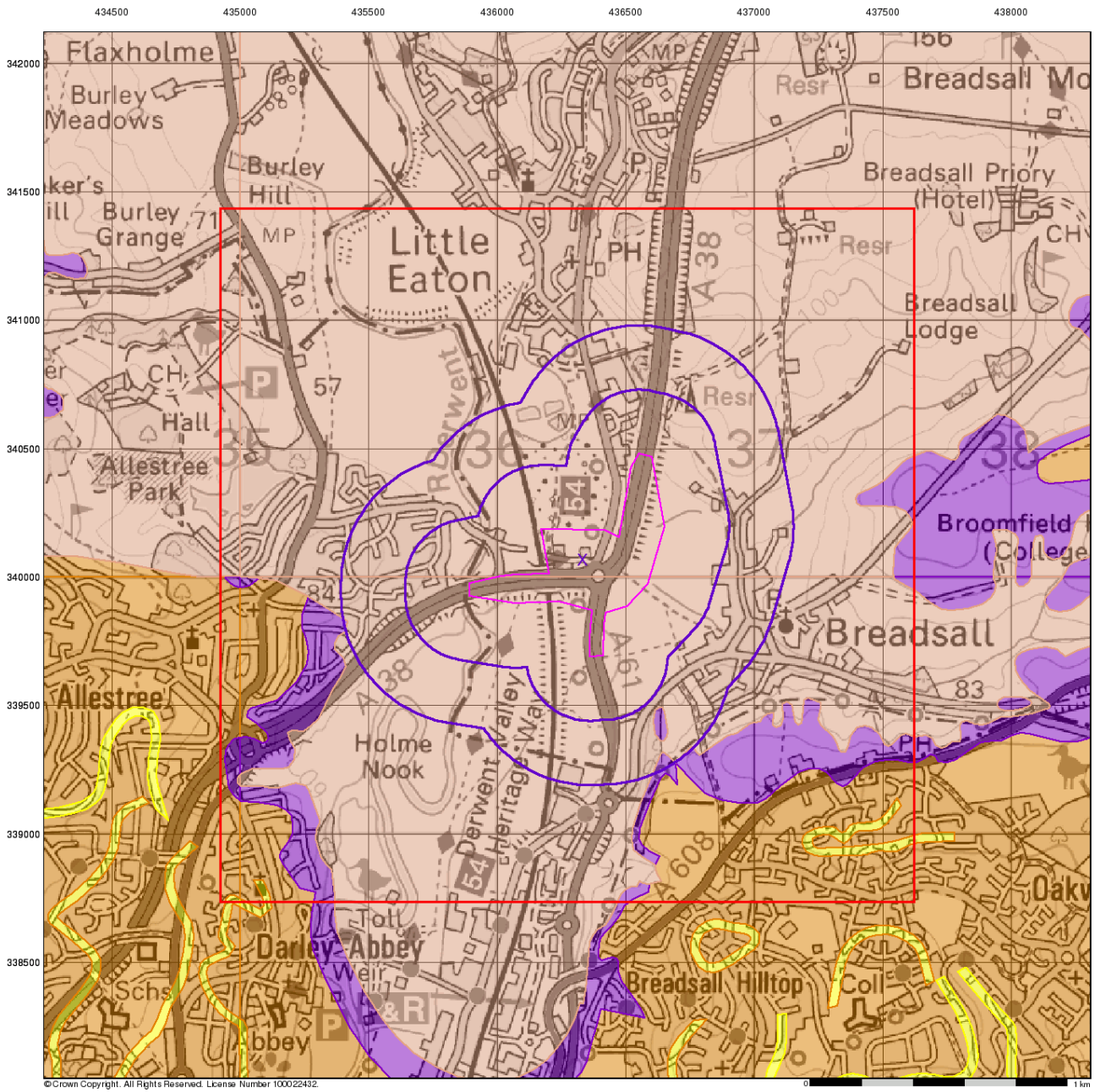
Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

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Bedrock Aquifer Designation

General

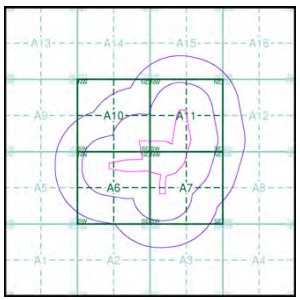
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



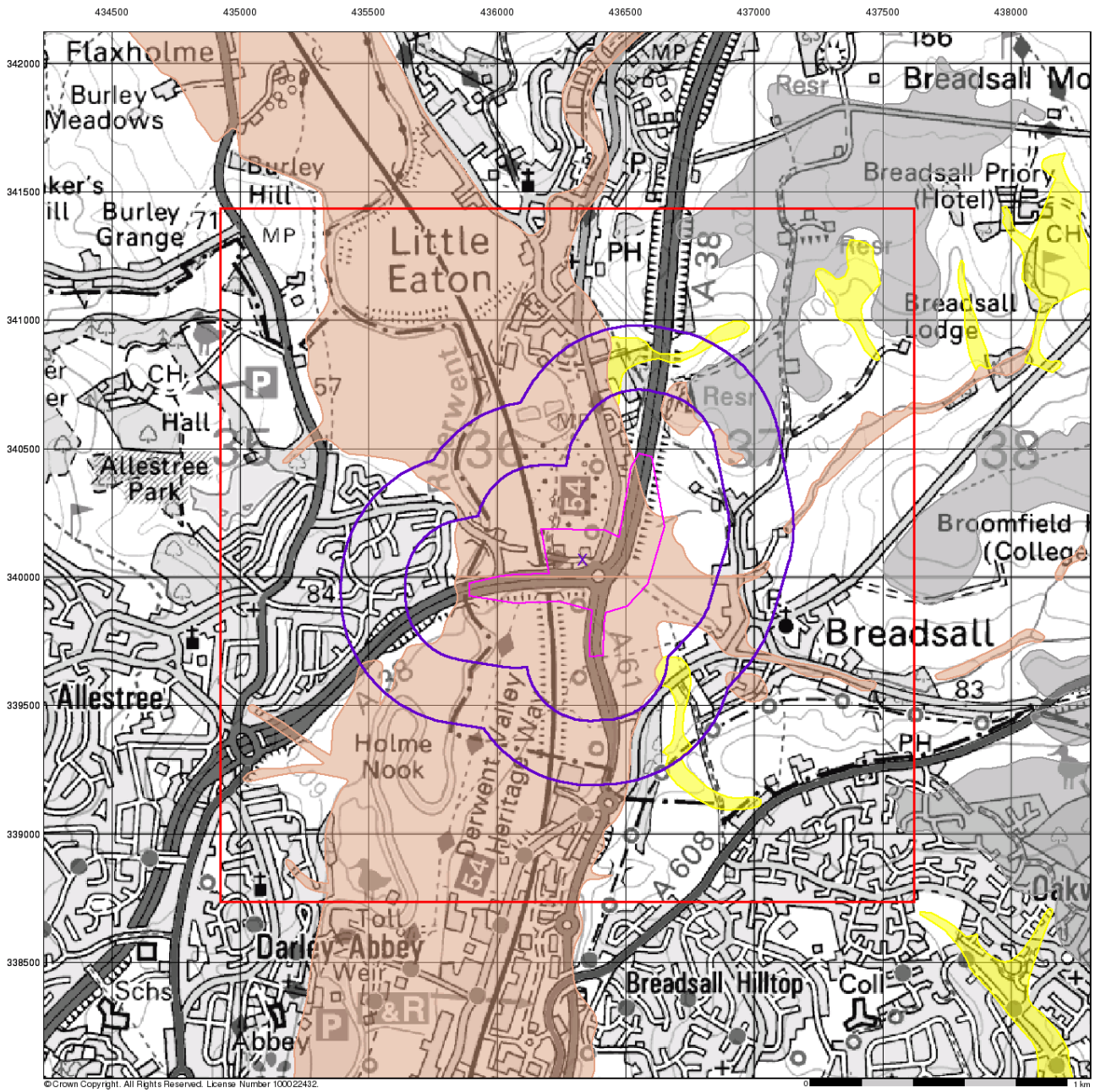
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Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

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Superficial Aquifer Designation

General

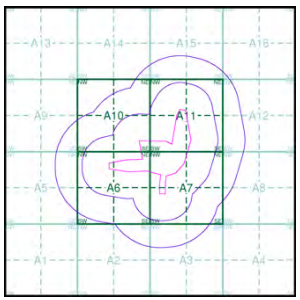
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



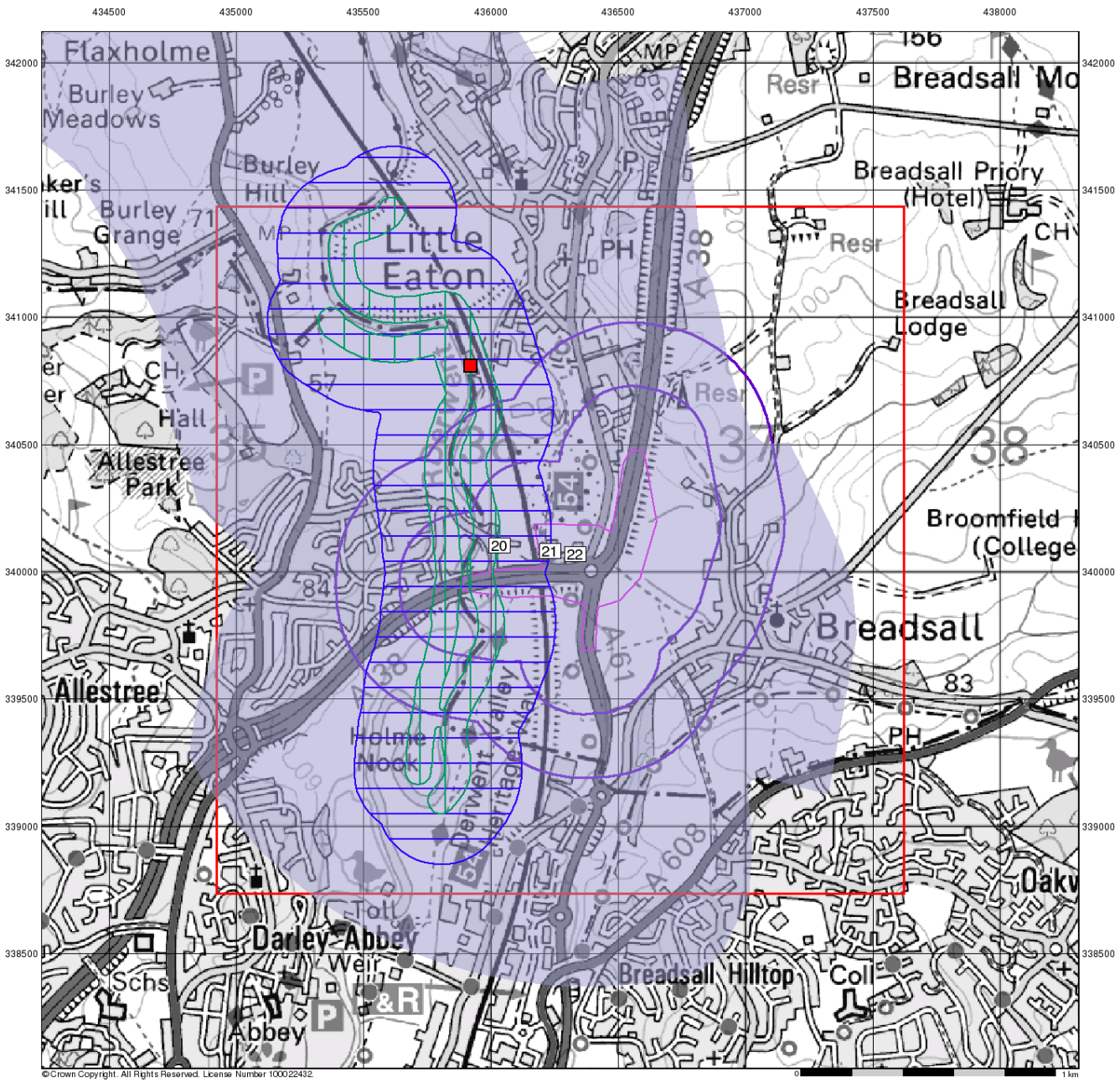
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

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Source Protection Zones

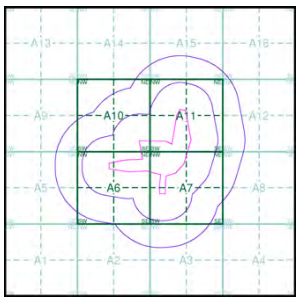
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



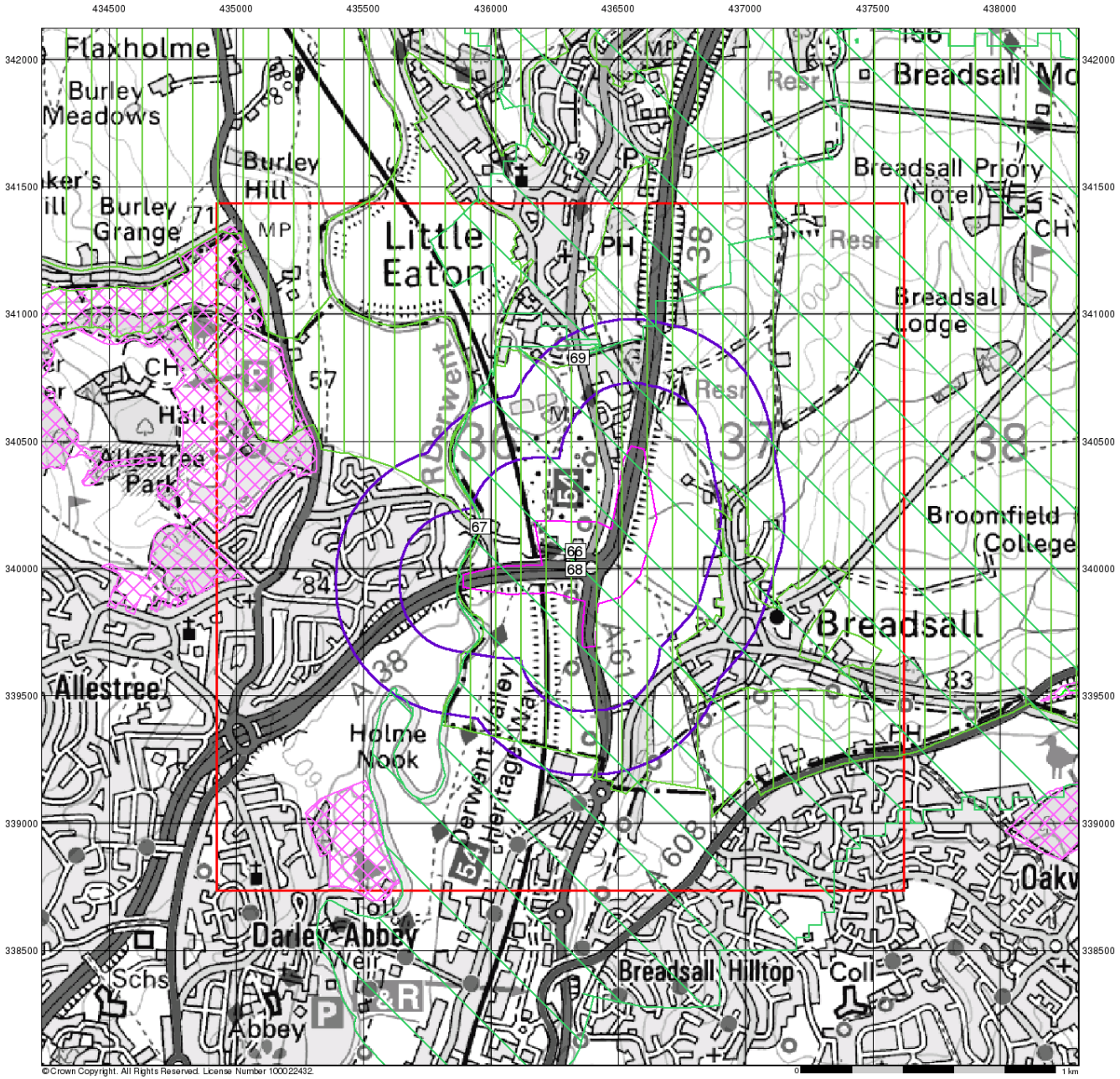
Order Details

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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

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Sensitive Land Uses

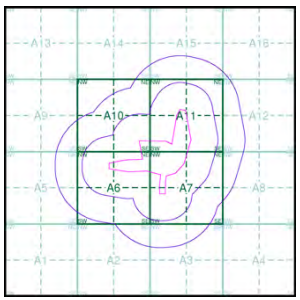
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
60386902_1_1

Customer Reference:
47071637.208APS

National Grid Reference:
436330, 340070

Slice:
A

Site Area (Ha):
19.55

Search Buffer (m):
500

Site Details:

Site at
Derby
City of Derby

Client Details:

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URS
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Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	16
Hazardous Substances	17
Geological	18
Industrial Land Use	29
Sensitive Land Use	30
Data Currency	31
Data Suppliers	36
Useful Contacts	37

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v49.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Agency & Hydrological				
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 1		1	
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls	pg 1			1
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 1	Yes		
Pollution Incidents to Controlled Waters	pg 1	2	5	2
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality	pg 3		2	
River Quality Biology Sampling Points	pg 3		1	
River Quality Chemistry Sampling Points	pg 4		1	
Substantiated Pollution Incident Register	pg 4	1		2
Water Abstractions	pg 5		6	1 (*7)
Water Industry Act Referrals				
Groundwater Vulnerability	pg 8	Yes	n/a	n/a
Bedrock Aquifer Designations	pg 8	Yes	n/a	n/a
Superficial Aquifer Designations	pg 8	Yes	n/a	n/a
Source Protection Zones	pg 9	3		
Extreme Flooding from Rivers or Sea without Defences	pg 9	Yes	Yes	n/a
Flooding from Rivers or Sea without Defences	pg 10	Yes	Yes	n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
Detailed River Network Lines	pg 11	Yes	Yes	Yes
Detailed River Network Offline Drainage	pg 15	Yes	Yes	Yes

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Waste				
BGS Recorded Landfill Sites				
Historical Landfill Sites				
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)	pg 16		1	
Licensed Waste Management Facilities (Locations)	pg 16	1		
Local Authority Recorded Landfill Sites				
Registered Landfill Sites	pg 16		1	
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				
Hazardous Substances				
Control of Major Accident Hazards Sites (COMAH)				
Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents	pg 17		1	1
Planning Hazardous Substance Enforcements				
Geological				
BGS 1:625,000 Solid Geology	pg 18	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 18	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 23			1
BGS Urban Soil Chemistry	pg 24		Yes	Yes
BGS Urban Soil Chemistry Averages	pg 25	Yes		
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain	pg 25	Yes		n/a
Potential for Collapsible Ground Stability Hazards	pg 25	Yes	Yes	n/a
Potential for Compressible Ground Stability Hazards	pg 25	Yes		n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 26	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 27	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 28	Yes	Yes	n/a
Radon Potential - Radon Affected Areas			n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Industrial Land Use				
Contemporary Trade Directory Entries	pg 29	2	1	4
Fuel Station Entries				
Sensitive Land Use				
Areas of Adopted Green Belt	pg 30	1	1	
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones	pg 30	1		1
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewerage Network - Pumping Station - Water Company Location: Allestree (Area A6,A61 & Fd Ln) Sws, Area Between A6, A61 & Ford Lane, Allestree, Derby Authority: Environment Agency, Midlands Region Catchment Area: Derwent to Markearton Bk Reference: T/46/07055/O Permit Version: 1 Effective Date: 6th November 1975 Issued Date: 6th November 1975 Revocation Date: 2nd April 2000 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: River Derwent **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A6NW (W)	96	3	435800 339900
2	**Local Authority Pollution Prevention and Controls** Name: Hanson Concrete Products Location: Alfreton Road, DERBY, DE21 4BN Authority: Derby City Unitary Council, Environmental Health Department Permit Reference: 3 Dated: 24th February 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG3/1Blending, packing, loading and use of bulk cement **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A3NW (S)	495	4	436300 339200
	Nearest Surface Water Feature	A7NW (S)	0	-	436404 339766
3	**Pollution Incidents to Controlled Waters** Property Type: Road (Road Traffic Accident) Location: A38 Abbey Hill, Little Eaton, DERBY, Derbyshire, DE21 Authority: Environment Agency, Midlands Region Pollutant: Oils - Diesel (Including Agricultural) Note: Road Traffic Accident - Overturned Lorry; No Adverse Effects; Incident Date: 2nd July 1999 Incident Reference: 2806282 Catchment Area: Trent Catchment : Markeaton Brook Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A7NW (SE)	0	3	436481 340001
4	**Pollution Incidents to Controlled Waters** Property Type: Road (Road Traffic Accident) Location: A38 Road Island, LITTLE EATON Authority: Environment Agency, Midlands Region Pollutant: Oils - Diesel (Including Agricultural) Note: Amenity Affected; Derwent; Road Traffic Accident; Diesel To Drains Incident Date: 1st August 1996 Incident Reference: 2001074 Catchment Area: Trent Catchment : Derwent To Confluence With Markeaton Brook Receiving Water: Watercourse Cause of Incident: Collision Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (E)	0	3	436500 340050
5	**Pollution Incidents to Controlled Waters** Property Type: Food industry Location: A38 Markeaton Island To Junc 28 M1 Authority: Environment Agency, Midlands Region Pollutant: Organic Wastes: Milk Note: 28000 Litres Mil Incident Date: 26th December 1998 Incident Reference: 2805479 Catchment Area: Trent Catchment : River Amber Receiving Water: Watercourse Cause of Incident: Leaking Tank Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A6NE (W)	1	3	436001 340001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Pollution Incidents to Controlled Waters** Property Type: Beef Cattle Location: Down Stream A38 Road Bdge Authority: Environment Agency, Midlands Region Pollutant: Organic Wastes: Animal Carcasses Note: River Derwent; Dead Cow; Amenity Affected Incident Date: 22nd March 1996 Incident Reference: 2800471 Catchment Area: Trent Catchment : Derwent To Confluence With Markeaton Brook Receiving Water: Watercourse Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6NW (W)	23	3	435901 340001
7	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Other Location: Breadsall, Where A6 Meets A38, DERBY Authority: Environment Agency, Midlands Region Pollutant: Organic Wastes: Other Note: None Affected; Blockage In Ditch Up Side Of Railway Line Incident Date: 26th March 1998 Incident Reference: 2804237 Catchment Area: Trent Catchment : Derwent To Confluence With Markeaton Brook Receiving Water: Watercourse Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SW (S)	42	3	436350 339650
8	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Surface Water Outfall Location: Breadsall Field, Between Croft Lane & Abbeyhill Authority: Environment Agency, Midlands Region Pollutant: Crude Sewage Note: Dam Brook; W/C Running Milky Grey; Public Health Risk Incident Date: 18th March 1996 Incident Reference: 2800422 Catchment Area: Trent Catchment : Derwent To Confluence With Markeaton Brook Receiving Water: Watercourse Cause of Incident: Blocked Sewer Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7NE (E)	115	3	436700 339950
9	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Foul Sewer Location: A38 Road, Little Chef, LITTLE EATON Authority: Environment Agency, Midlands Region Pollutant: Crude Sewage Note: Public Health Risk; Boosemoor Brook; Sewage Incident Date: 7th August 1996 Incident Reference: 2001107 Catchment Area: Trent Catchment : Derwent To Confluence With Markeaton Brook Receiving Water: Watercourse Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (E)	152	3	436750 339990
10	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Water Treatment Works Location: Water Treatment Works, LITTLE EATON Authority: Environment Agency, Midlands Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Other Adverse Effects; Tributary Bottle Brook; Lime Spill To Surface Water Drain Incident Date: 7th June 1996 Incident Reference: 2800792 Catchment Area: Trent Catchment : Derwent To Confluence With Markeaton Brook Receiving Water: Watercourse Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11NW (N)	279	3	436300 340600
11	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Other Location: Rectory Lane, Breadsall Villagee Authority: Environment Agency, Midlands Region Pollutant: Miscellaneous - Natural Note: Brown Scum; Amenity Effected Incident Date: 22nd July 1997 Incident Reference: 2802984 Catchment Area: Trent Catchment : Derwent To Confluence With Markeaton Brook Receiving Water: Watercourse Cause of Incident: Low Flow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (E)	389	3	437000 340001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Derwent R GQA Grade: River Quality A Reach: A6 Milford To A38 Allestree Estimated Distance (km): 14.3 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A6NW (W)	65	3	435872 340063
	River Quality Name: Derwent R GQA Grade: River Quality A Reach: A38 Allestree To St. Mary S Br Derby Estimated Distance (km): 6 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A6NW (W)	106	3	435785 339933
12	**River Quality Biology Sampling Points** Name: Derwent Reach: A38 Allestree To St. Mary'S Bridge Derby Estimated Distance: 6.00 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 1995 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2000 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2002 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2003 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2004 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2005 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2006 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2007 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2008 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2009 GQA Grade: River Quality Biology GQA Grade A - Very Good	A6NW (W)	25	3	435900 339900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**River Quality Chemistry Sampling Points** Name: Derwent River Reach: A6 Milford To A38 Allestree Estimated Distance: 14.30 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A10SE (W)	171	3	435955 340165
14	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, East Area Incident Date: 8th May 2007 Incident Reference: 493269 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Other Pollutant: Inert Materials And Wastes: Soils And Clay Pollutant: Specific Waste Materials: Vehicles And Vehicle Parts	A11SW (N)	0	3	436312 340150
15	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, Lower Trent Area Incident Date: 10th December 2003 Incident Reference: 206012 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Other Pollutant	A7SE (SE)	300	3	436695 339593

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, Lower Trent Area Incident Date: 9th August 2001 Incident Reference: 23058 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Pollutant Not Identified: Not Identified	A10NW (NW)	481	3	435870 340560
17	**Water Abstractions** Operator: Talbot Turf Supplies Limited Licence Number: 03/28/46/0015/1 Permit Version: 2 Location: River Derwent At Allestree, Derby Authority: Environment Agency, Midlands Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Allestree, Derby Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 14th April 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NW (W)	26	3	435890 339900
17	**Water Abstractions** Operator: Talbot Turf Supplies Licence Number: 03/28/46/0015/1 Permit Version: 1 Location: River Derwent At Allestree, Derby Authority: Environment Agency, Midlands Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Allestree, Derby Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 16th December 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NW (W)	26	3	435890 339900
17	**Water Abstractions** Operator: Talbot Turf Supplies Licence Number: 03/28/46/0015 Permit Version: 1 Location: River Derwent At Allestree, Derby Authority: Environment Agency, Midlands Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Allestree, Derby Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 19th June 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NW (W)	26	3	435890 339900
17	**Water Abstractions** Operator: Talbot Turf Supplies Licence Number: 03/28/46/0012 /1 Permit Version: Not Supplied Location: River Derwent, BREADSALL Authority: Environment Agency, Midlands Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 818 Yearly Rate (m3): 40000 Details: Derwent Catchment To Markeaton Brook Confluence Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6NW (W)	26	3	435890 339900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**Water Abstractions** Operator: Talbot Turf Supplies Licence Number: 03/28/46/00131 Permit Version: Not Supplied Location: River Derwent, Land At Breadsall, BREADSALL Authority: Environment Agency, Midlands Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 818 Yearly Rate (m3): 40000 Details: Derwent Catchment To Markeaton Brook Confluence Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6NW (W)	31	3	435890 339895
18	**Water Abstractions** Operator: Derby Garden Centre Licence Number: 03/28/46/0016 Permit Version: 1 Location: Derby Garden Centre Authority: Environment Agency, Midlands Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Derby Garden Centre Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11NW (N)	56	3	436500 340500
19	**Water Abstractions** Operator: Mr J R S Morris Licence Number: 03/28/46/0006 Permit Version: 100 Location: Breadsall - Well Authority: Environment Agency, Midlands Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Breadsall - Borehole Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SE (E)	263	3	436900 340300
	Water Abstractions Operator: Severn Trent Water Limited Licence Number: 03/28/44/0006 Permit Version: 101 Location: Little Eaton (Nottingham) - River Derwent Authority: Environment Agency, Midlands Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Draycott Intake - River Derwent Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 22nd October 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NE (NW)	619	3	435940 340760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Severn Trent Water Limited Licence Number: 03/28/44/0006 Permit Version: 102 Location: Little Eaton (Nottingham) - River Derwent Authority: Environment Agency, Midlands Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Draycott Intake - River Derwent Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 22nd October 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NE (NW)	619	3	435940 340760
	Water Abstractions Operator: Severn Trent Water Limited Licence Number: 03/28/44/0006 Permit Version: 100 Location: Little Eaton (Nottingham) - River Derwent Authority: Environment Agency, Midlands Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Draycott Intake - River Derwent Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 17th March 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10NE (NW)	619	3	435940 340760
	Water Abstractions Operator: Severn Trent Water Limited Licence Number: 03/28/46/0007 Permit Version: 101 Location: Reiver Derwent At Little Eaton Authority: Environment Agency, Midlands Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Little Eaton P S - River & Tunnel Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 22nd October 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (NW)	673	3	435920 340810
	Water Abstractions Operator: Severn Trent Water Limited Licence Number: 03/28/46/0007 Permit Version: 102 Location: Reiver Derwent At Little Eaton Authority: Environment Agency, Midlands Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Little Eaton P S - River & Tunnel Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 22nd October 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (NW)	673	3	435920 340810

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Severn Trent Water Limited Licence Number: 03/28/46/0007 Permit Version: 100 Location: Reiver Derwent At Little Eaton Authority: Environment Agency, Midlands Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 70000 Yearly Rate (m3): 4726568 Details: Little Eaton P S - River & Tunnel Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 17th March 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (NW)	673	3	435920 340810
	Water Abstractions Operator: Derby City Council Licence Number: 03/28/46/0011 Permit Version: 100 Location: Allestree Park Golf Club - Allestree Park Lake Authority: Environment Agency, Midlands Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Allestree Park Golf Club - Lake Authorised Start: 01 March Authorised End: 30 September Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (W)	988	3	435000 340400
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H1) - Soils which readily transmit liquid discharges because they are either shallow, or susceptible to rapid by-pass flow directly to rock, gravel or groundwater Map Sheet: Sheet 17 Derbyshire & North Staffordshire Scale: 1:100,000	A7NW (N)	0	3	436332 340068
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 17 Derbyshire & North Staffordshire Scale: 1:100,000	A6NE (W)	0	3	436263 340041
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H2) - Deep, permeable, coarse textured soils which readily transmit a wide range of pollutants because of their rapid drainage and low attenuation potential Map Sheet: Sheet 17 Derbyshire & North Staffordshire Scale: 1:100,000	A11SE (E)	0	3	436669 340194
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H1) - Soils which readily transmit liquid discharges because they are either shallow, or susceptible to rapid by-pass flow directly to rock, gravel or groundwater Map Sheet: Sheet 23 Leicestershire Scale: 1:100,000	A7NW (S)	0	3	436332 340000
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 23 Leicestershire Scale: 1:100,000	A7NW (SW)	0	3	436301 340000
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A7NW (S)	0	2	436332 340001
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A7NW (N)	0	2	436332 340068
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A7NW (N)	0	2	436332 340068

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A7NW (S)	0	2	436332 340001
20	**Source Protection Zones** Name: Little Eaton Source: Environment Agency, Head Office Reference: Md221 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A10SE (W)	0	3	436035 340103
21	**Source Protection Zones** Name: Little Eaton Source: Environment Agency, Head Office Reference: Md221 Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A6NE (W)	0	3	436234 340080
22	**Source Protection Zones** Name: Little Eaton Source: Environment Agency, Head Office Reference: Md221 Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A7NW (N)	0	3	436332 340068
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	0	3	436516 340325
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A7NW (W)	0	3	436287 340077
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A7NW (S)	0	3	436432 339794
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A7NW (S)	0	3	436327 339956
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A6NE (SW)	0	3	436170 339949
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (N)	0	3	436332 340068
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (E)	0	3	436475 340040
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A10SE (W)	0	3	436258 340092
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A6NE (W)	0	3	436177 340039
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (NE)	0	3	436503 340245
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A6NW (W)	0	3	435922 339944

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A6NE (SW)	0	3	436258 339963
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A6NE (SW)	0	3	436214 339964
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (SW)	0	3	436282 339964
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (S)	0	3	436294 339964
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (S)	0	3	436306 339964
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (S)	0	3	436314 339964
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (E)	0	3	436471 340096
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (E)	0	3	436375 340051
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A6NW (W)	26	3	435867 339930
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A6NW (W)	61	3	435831 339965
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A6NW (W)	62	3	435830 339955
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A6NW (W)	67	3	435825 339941
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A11NW (N)	149	3	436372 340466
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A6SW (SW)	250	3	435739 339728
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NW (N)	0	3	436332 340068
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A6NW (W)	66	3	435832 339900
	Areas Benefiting from Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Water Storage Areas None				
	Flood Defences None				
23	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Dam Brook Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NW (E)	0	3	436505 340035
24	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7SW (S)	0	3	436409 339701
25	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Dam Brook Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NW (SE)	0	3	436461 339977
26	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11SW (NE)	0	3	436418 340132
27	**Detailed River Network Lines** River Type: Secondary River River Name: Dam Brook Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NW (E)	0	3	436505 340035

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NW (SE)	0	3	436461 339977
29	**Detailed River Network Lines** River Type: Secondary River River Name: Dam Brook Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NW (E)	0	3	436498 340027
30	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11SW (E)	0	3	436429 340096
31	**Detailed River Network Lines** River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A11SW (E)	0	3	436523 340126
32	**Detailed River Network Lines** River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7SW (S)	0	3	436409 339701
33	**Detailed River Network Lines** River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Other Rivers Management Status: Water Course Name: Not Supplied Water Course Reference: Not Supplied	A6NE (W)	9	3	436005 340023

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	**Detailed River Network Lines** River Type: Secondary River River Name: Boosemoor Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NW (E)	18	3	436601 339962
35	**Detailed River Network Lines** River Type: Secondary River River Name: Dam Brook Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A7NW (E)	18	3	436601 339962
36	**Detailed River Network Lines** River Type: Primary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: RIVER DERWENT Water Course Reference: 4080	A6NW (W)	23	3	435869 339978
37	**Detailed River Network Lines** River Type: Primary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: RIVER DERWENT Water Course Reference: 4080	A6NW (W)	24	3	435885 340011
38	**Detailed River Network Lines** River Type: Tertiary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A6NW (W)	26	3	435871 339911
39	**Detailed River Network Lines** River Type: Primary River River Name: Derwent Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: RIVER DERWENT Water Course Reference: 4080	A6NE (SW)	26	3	435966 339798

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	**Detailed River Network Lines** River Type: Primary River River Name: River Derwent Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Flood Risk Management Indicative/Statutory Main River Water Course Name: RIVER DERWENT Water Course Reference: 4080	A10SE (W)	36	3	435954 340130
41	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A6NW (W)	36	3	435885 340011
42	**Detailed River Network Lines** River Type: Secondary River River Name: Drain Hydrographic Area: D004 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A6SE (S)	137	3	436235 339637
43	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A6SE (S)	137	3	436235 339637
44	**Detailed River Network Lines** River Type: Secondary River River Name: Drain Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A6SE (S)	216	3	436201 339546
45	**Detailed River Network Lines** River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A15SW (N)	396	3	436305 340810

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**Detailed River Network Lines** River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A15SW (N)	413	3	436305 340810
47	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D004	A6NE (W)	0	3	435979 339941
48	**Detailed River Network Offline Drainage** River Type: Secondary River Hydrographic Area: D004	A6NE (W)	3	3	436165 340040
49	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D004	A10SE (W)	84	3	436100 340107
50	**Detailed River Network Offline Drainage** River Type: Secondary River Hydrographic Area: D004	A10NE (N)	271	3	436192 340523
51	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D004	A3NW (S)	383	3	436561 339340
52	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D004	A15SE (NE)	477	3	436787 340907

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: A E Hibbs & Sons Ltd Ford Lane Licence Number: 43273 Location: Ford Lane Landfill, Ford Lane, Little Eaton, Derby, Derbyshire, DE21 Licence Holder: A E Hibbs & Sons Ltd Authority: Environment Agency - Midlands Region, East Area Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) Max Input Rate: Not Supplied **Licence Status: Issued** Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A11SW (N)	88	3	436294 340337
54	**Licensed Waste Management Facilities (Locations)** Licence Number: 43273 Location: Ford Lane Landfill, Ford Lane, Little Eaton, Derby, Derbyshire, DE21 Operator Name: A E Hibbs & Sons Ltd Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, East Area Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) **Licence Status: Issued** Issued: 14th April 1977 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (W)	0	3	436196 340111
	Local Authority Landfill Coverage Name: Erewash Borough Council - Has supplied landfill data		0	13	436332 340068
	Local Authority Landfill Coverage Name: Derbyshire County Council - Had landfill data but passed it to the relevant environment agency		0	14	436332 340068
	Local Authority Landfill Coverage Name: Derby City Council - Has supplied landfill data		19	15	435953 340133
55	**Registered Landfill Sites** Licence Holder: A E Hibbs & Sons Ltd Licence Reference: LL03 Site Location: Ford Lane, Little Eaton, Derby, Derbyshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Unit 7 Downing Road, West Meadows Industrial estate, DERBY, Derbyshire, DE21 6HA Authority: Environment Agency - Midlands Region, Lower Trent Area Site Category: Landfill Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Operational as far as is knownOperational Dated: 8th November 1983 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good Authorised Waste Construction And Demolition Wastes Prohibited Waste Poisonous, Noxious, Polluting Wastes Spec.Waste (Epa'90:S62/1996 Regs)	A11SW (N)	21	3	436350 340211

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	**Planning Hazardous Substance Consents** Name: Severn Trent Water Location: Little Eaton Water Treatment Works, Alfreton Road, Little Eaton, DERBY, Derbyshire, DE2 4SL Authority: Erewash Borough Council Application Ref: Ere/0798/056 Hazardous Substance: Chlorine Maximum Quantity: 90 Application date: 23rd July 1998 **Decision: Application revoked or cancelledCancelled** Positional Accuracy: Manually positioned to the address or location	A11NW (N)	231	5	436530 340709
57	**Planning Hazardous Substance Consents** Name: Severn Trent Water Location: Little Eaton Water Treatment Works, Alfreton Road, Little Eaton, DERBY, Derbyshire, DE2 4SL Authority: Erewash Borough Council Application Ref: ERE/1192/0071 Hazardous Substance: Chlorine Maximum Quantity: 20 Application date: 30th November 1992 **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Manually positioned to the address or location	A15SW (N)	335	5	436448 340798

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Namurian (Millstone Grit Series)	A7NW (N)	0	2	436332 340068
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 3.0 - 6.0 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 600 - 900 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NE (W)	0	6	436000 340000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 3.0 - 6.0 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 600 - 900 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NW (S)	0	6	436332 340000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (NE)	0	6	436593 340264
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 3.0 - 6.0 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 600 - 900 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NW (N)	0	6	436332 340068
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 3.0 - 6.0 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 600 - 900 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NE (W)	1	6	436000 340068
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A6NW (W)	46	6	435843 340000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A6NW (W)	55	6	435852 340059
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SE)	135	6	436629 339818
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NE (NE)	136	6	436707 340557
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A11NW (N)	197	6	436473 340660
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: <15 mg/kg	A7SE (SE)	210	6	436641 339683
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: <15 mg/kg	A11NE (NE)	226	6	436781 340607

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SE)	237	6	436630 339581
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NE (NE)	251	6	436881 340450
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 3.0 - 6.0 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 600 - 900 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NE (E)	253	6	436858 340000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SE)	294	6	436630 339491
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (E)	346	6	436940 339950
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (E)	348	6	437000 340068

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 3.0 - 6.0 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 600 - 900 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NW (E)	382	6	437000 340026
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: <15 mg/kg	A12NW (NE)	384	6	437000 340425
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 3.0 - 6.0 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 600 - 900 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NW (E)	389	6	437000 340000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (E)	391	6	437000 339992
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (N)	420	6	436287 340873
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (N)	420	6	436443 340885

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A5SE (SW)	432	6	435548 339665
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (N)	440	6	436442 340931
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NE (SE)	444	6	436647 339316
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: <15 mg/kg	A15SE (N)	464	6	436621 340938
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 3.0 - 6.0 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 600 - 900 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SW (E)	465	6	437117 340182
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7SE (SE)	466	6	436892 339616

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A3NE (SE)	468	6	436666 339300
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A5NE (W)	484	6	435419 339826
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 3.0 - 6.0 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 600 - 900 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8SW (SE)	486	6	437000 339717
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NE (SE)	494	6	436758 339340
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 30 - 45 mg/kg	A3NE (SE)	500	6	436713 339294
58	**BGS Recorded Mineral Sites** Site Name: Breadsall Gravel Pit Location: , Breadsall, Derby Source: British Geological Survey, National Geoscience Information Service Reference: 34518 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Mid Pleistocene Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A11NE (NE)	270	2	436865 340530

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 436350, 339742 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 12.00 mg/kg Cadmium Measured Concentration: 4.20 mg/kg Chromium Measured Concentration: 73.00 mg/kg Lead Measured Concentration: 213.00 mg/kg Nickel Measured Concentration: 22.00 mg/kg	A7SW (S)	11	2	436350 339742
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 435840, 339949 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 15.00 mg/kg Cadmium Measured Concentration: 1.70 mg/kg Chromium Measured Concentration: 74.00 mg/kg Lead Measured Concentration: 165.00 mg/kg Nickel Measured Concentration: 23.00 mg/kg	A6NW (W)	52	2	435840 339949
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 436752, 339720 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 19.00 mg/kg Cadmium Measured Concentration: 2.40 mg/kg Chromium Measured Concentration: 59.00 mg/kg Lead Measured Concentration: 202.00 mg/kg Nickel Measured Concentration: 31.00 mg/kg	A7SE (SE)	292	2	436752 339720
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 436240, 339269 Soil Sample Type: Topsoil Sample Area: Derby Arsenic Measured Concentration: 34.00 mg/kg Cadmium Measured Concentration: 2.80 mg/kg Chromium Measured Concentration: 66.00 mg/kg Lead Measured Concentration: 673.00 mg/kg Nickel Measured Concentration: 51.00 mg/kg	A2NE (S)	439	2	436240 339269

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: Derby Count Id: 275 Arsenic Minimum Concentration: 6.00 mg/kg Arsenic Average Concentration: 16.00 mg/kg Arsenic Maximum Concentration: 63.00 mg/kg Cadmium Minimum Concentration: 0.30 mg/kg Cadmium Average Concentration: 2.40 mg/kg Cadmium Maximum Concentration: 12.50 mg/kg Chromium Minimum Concentration: 30.00 mg/kg Chromium Average Concentration: 69.00 mg/kg Chromium Maximum Concentration: 311.00 mg/kg Lead Minimum Concentration: 21.00 mg/kg Lead Average Concentration: 321.00 mg/kg Lead Maximum Concentration: 2053.00 mg/kg Nickel Minimum Concentration: 12.00 mg/kg Nickel Average Concentration: 34.00 mg/kg Nickel Maximum Concentration: 180.00 mg/kg	A7NW (N)	0	2	436332 340068
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	2	436332 340000
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	436332 340068
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	436593 340264
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	2	436332 340000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	436332 340068
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	46	2	435843 340000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	55	2	435852 340059
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	135	2	436629 339818
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	436332 340068
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	2	436332 340000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	436593 340264

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	46	2	435843 340000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	55	2	435852 340059
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	135	2	436629 339818
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	436332 340068
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	2	436332 340000
	Potential for Landslide Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	2	436540 340452
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	2	436332 340000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (SW)	0	2	436278 340010
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (SW)	0	2	436275 340000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	436550 340381
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (W)	0	2	436045 340000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	2	436143 339990
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	436527 340346
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (W)	0	2	436160 340000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	2	436161 339997
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	436558 340280
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NE (W)	0	2	435942 339990
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	436541 340217
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	436332 340068
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	18	2	435895 340000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	27	2	435895 340061

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	32	2	436520 340487
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	46	2	435843 340000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	55	2	435852 340059
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	71	2	435821 339945
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	96	2	435850 340069
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	135	2	436629 339818
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	190	2	435705 339893
	Potential for Landslide Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	196	2	436642 340660
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	222	2	436840 340486
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7SW (SE)	224	2	436608 339574
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	237	2	436627 339578
	Potential for Landslide Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A7SW (SE)	246	2	436608 339541
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	436332 340068
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	2	436332 340000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	436593 340264
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	46	2	435843 340000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	55	2	435852 340059
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	135	2	436629 339818
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	136	2	436707 340557
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	197	2	436473 340660
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	210	2	436641 339683

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	436332 340068
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	2	436332 340000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	148	2	436690 340588
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	226	2	436781 340607
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	2	436332 340001
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	436332 340068
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	2	436332 340001
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	2	436332 340068

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	**Contemporary Trade Directory Entries** Name: R F Freeberne Location: Fourways, Ford Lane, Little Eaton, Derby, DE21 5DA Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SE (W)	0	-	436256 340095
60	**Contemporary Trade Directory Entries** Name: David Ray Commercials Ltd Location: Ford Lane, Little Eaton, Derby, Derbyshire, DE21 5DA Classification: Commercial Vehicle Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NW (E)	0	-	436379 340084
61	**Contemporary Trade Directory Entries** Name: Electric Gates Security Automation Solutions Location: 4, Wharfedale Close, Allestree, Derby, DE22 2UQ Classification: Gate Manufacturers - Automated **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6NW (W)	153	-	435743 340007
62	**Contemporary Trade Directory Entries** Name: Ken Wright Location: 67, Rectory Lane, Breadsall, Derby, Derbyshire, DE21 5LL Classification: Boatbuilders & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SE (E)	299	-	436946 340253
63	**Contemporary Trade Directory Entries** Name: Exopest (Uk) Location: 12, Medway Drive, Allestree, Derby, DE22 2UB Classification: Pest & Vermin Control **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SE (W)	415	-	435511 340139
64	**Contemporary Trade Directory Entries** Name: Phonecentre Derby Location: 30, Brookfields Drive, Breadsall, Derby, DE21 5LJ Classification: Telecommunications Equipment & Systems **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SE)	455	-	436836 339527
65	**Contemporary Trade Directory Entries** Name: Eden Tyres Sales Location: Alfreton Road, Derby, Derbyshire, DE21 4AP Classification: Tyre Dealers **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A3NW (S)	476	-	436419 339217

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	**Areas of Adopted Green Belt** Authority: Erewash Borough Council Plan Name: Erewash Borough Local Plan **Status:** **Adopted** Plan Date: 31st July 2005	A7NW (N)	0	8	436332 340068
67	**Areas of Adopted Green Belt** Authority: Derby City Unitary Council, Development and Cultural Services Plan Name: City Of Derby Local Plan Review **Status:** **Adopted** Plan Date: 31st January 2006	A10SE (W)	169	9	435958 340163
68	**Nitrate Vulnerable Zones** Name: Not Supplied Description: Groundwater Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A7NW (N)	0	12	436332 340068
69	**Nitrate Vulnerable Zones** Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A15SW (N)	398	12	436345 340826

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Erewash Borough Council - Environmental Health Department	August 2014	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	January 2013	Annual Rolling Update
Derby City Unitary Council - Environmental Health Department	January 2013	Annual Rolling Update
Discharge Consents		
Environment Agency - Midlands Region	August 2014	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Midlands Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - Midlands Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - Midlands Region	August 2014	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Derby City Unitary Council - Environmental Health Department	April 2014	Annual Rolling Update
Erewash Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	October 2013	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Derby City Unitary Council - Environmental Health Department	April 2014	Annual Rolling Update
Erewash Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	October 2013	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Derby City Unitary Council - Environmental Health Department	April 2014	Annual Rolling Update
Erewash Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	October 2013	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency - Midlands Region	December 1999	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Midlands Region	March 2013	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - Midlands Region	March 2013	As notified
Registered Radioactive Substances		
Environment Agency - Midlands Region	August 2014	Quarterly
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - Midlands Region - East Area	August 2014	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	August 2014	Quarterly
Water Abstractions		
Environment Agency - Midlands Region	July 2014	Quarterly
Water Industry Act Referrals		
Environment Agency - Midlands Region	August 2014	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	October 2012	Annually
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	October 2012	Annually
Source Protection Zones		
Environment Agency - Head Office	April 2014	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2014	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2014	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	August 2014	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	August 2014	Quarterly
Flood Defences		
Environment Agency - Head Office	August 2014	Quarterly
Detailed River Network Lines		
Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage		
Environment Agency - Head Office	March 2012	Annually
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Midlands Region - East Area	May 2014	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	May 2014	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Midlands Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Midlands Region - East Area	July 2014	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	July 2014	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Midlands Region - East Area	August 2014	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	August 2014	Quarterly
Local Authority Landfill Coverage		
Amber Valley Borough Council	May 2000	Not Applicable
Derby City Council	May 2000	Not Applicable
Derbyshire County Council	May 2000	Not Applicable
Erewash Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Amber Valley Borough Council	May 2000	Not Applicable
Derbyshire County Council	May 2000	Not Applicable
Erewash Borough Council - Environmental Health Department	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	August 2014	Bi-Annually
Explosive Sites		
Health and Safety Executive	November 2013	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Derby City Unitary Council - Development and Cultural Services	August 2013	Annual Rolling Update
Amber Valley Borough Council	February 2013	Annual Rolling Update
Derbyshire County Council	March 2014	Annual Rolling Update
Erewash Borough Council	September 2013	Annual Rolling Update
Planning Hazardous Substance Consents		
Derby City Unitary Council - Development and Cultural Services	August 2013	Annual Rolling Update
Amber Valley Borough Council	February 2013	Annual Rolling Update
Derbyshire County Council	March 2014	Annual Rolling Update
Erewash Borough Council	September 2013	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2014	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	June 2011	Annually
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	June 2011	Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	December 2013	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	August 2014	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2014	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt		
Amber Valley Borough Council	August 2014	As notified
Derby City Unitary Council - Development and Cultural Services	August 2014	As notified
Erewash Borough Council	August 2014	As notified
Areas of Unadopted Green Belt		
Amber Valley Borough Council	August 2014	As notified
Derby City Unitary Council - Development and Cultural Services	August 2014	As notified
Erewash Borough Council	August 2014	As notified
Areas of Outstanding Natural Beauty		
Natural England	August 2014	Bi-Annually
Environmentally Sensitive Areas		
Natural England	August 2014	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	March 2014	Bi-Annually
Marine Nature Reserves		
Natural England	July 2013	Bi-Annually
National Nature Reserves		
Natural England	March 2014	Bi-Annually
National Parks		
Natural England	August 2014	Bi-Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	July 2014	Annually
Ramsar Sites		
Natural England	March 2014	Bi-Annually
Sites of Special Scientific Interest		
Natural England	March 2014	Bi-Annually
Special Areas of Conservation		
Natural England	March 2014	Bi-Annually
Special Protection Areas		
Natural England	March 2014	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

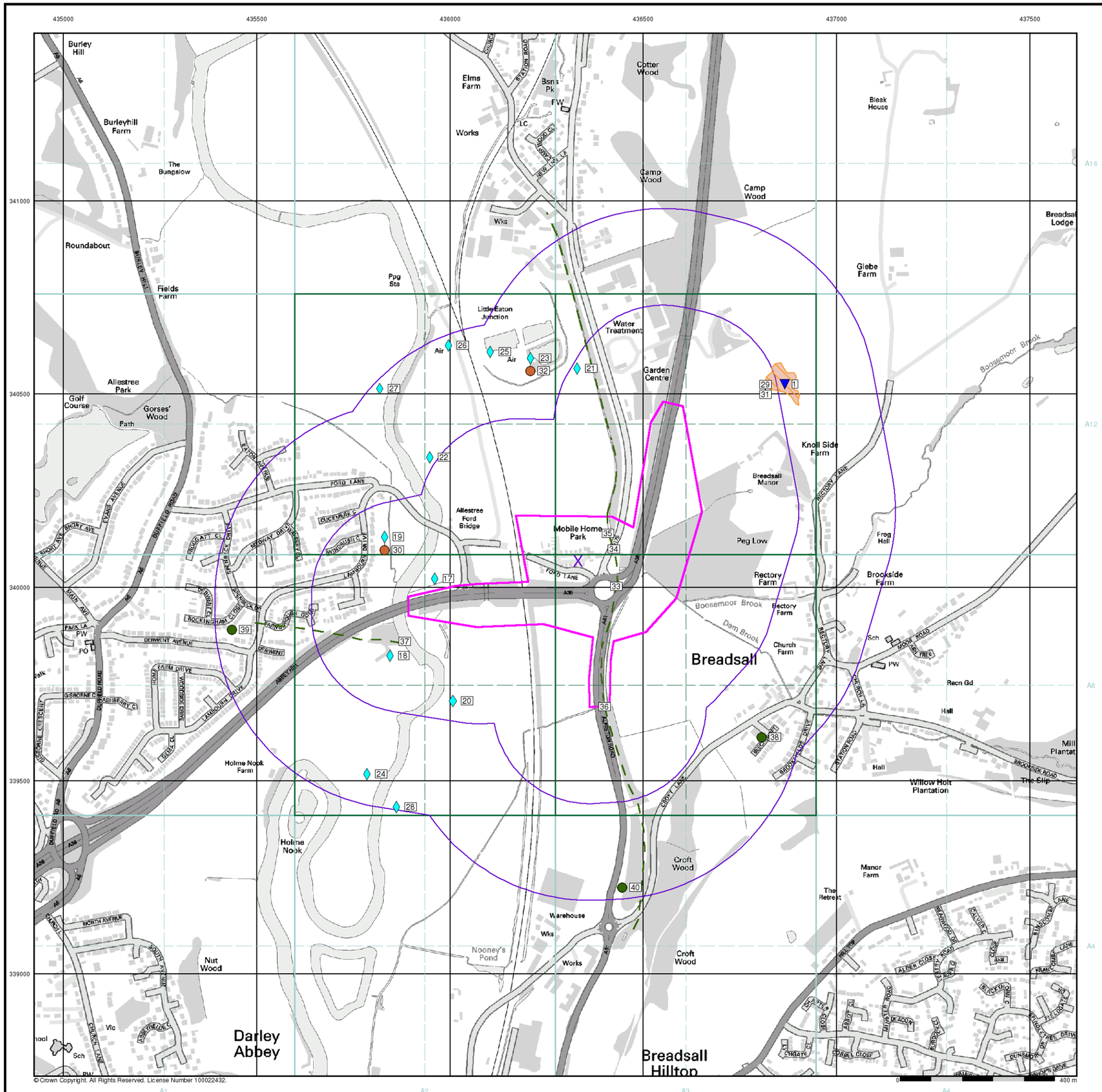
Data Supplier	Data Supplier Logo
Ordnance Survey	Ordnance Survey® Licensed Partner
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	THE COAL AUTHORITY
British Geological Survey	BGS 1835 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	CEH Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett

Contact	Name and Address	Contact Details
2	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Derby City Unitary Council - Environmental Health Department** Celtic House, Heritage Gate, Derby, Derbyshire, DE1 1LS	Telephone: 01332 255228 Fax: 01332 255500 Website: www.derby.gov.uk
5	**Erewash Borough Council** Town Hall, Longeaton, Derbyshire, NG10 1HU	Telephone: 0115 907 2244 Fax: 0115 946 8236 Website: www.erewash.gov.uk
6	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
7	**The Coal Authority - Mining Report Service** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
8	**Erewash Borough Council** Town Hall, Long Eaton, Nottingham, Nottinghamshire, NG10 1HU	Telephone: 0115 946 1321 Fax: 0115 946 8236 Website: www.erewash.gov.uk
9	**Derby City Unitary Council - Development and Cultural Services** Roman House, Friar Gate, Derby, Derbyshire, DE1 1XB	Telephone: 01332 293111 Fax: 01332 255989 Website: www.derby.gov.uk
10	**Amber Valley Borough Council** PO Box 18, Town Hall, Ripley, Derbyshire, DE5 3SZ	Telephone: 01773 570222 Fax: 01773 841523 Website: www.ambervalley.gov.uk
11	**Natural England** Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
12	**Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)** Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
13	**Erewash Borough Council - Environmental Health Department** Merlin House, Merlin Way, Ikeston, Derbyshire, DE7 4RA	Telephone: 0115 907 2244 Fax: 0115 946 8236 Website: www.erewash.gov.uk
14	**Derbyshire County Council** County Offices, Matlock, Derbyshire, DE4 3AG	Telephone: 01629 580000 Fax: 01629 580119 Website: www.derbyshire.gov.uk
15	**Derby City Council** The Council House, Corporation Street, Derby, Derbyshire, DE1 2FS	Telephone: 01332 293111 Fax: 01332 255500
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org

Useful Contacts

Contact	Name and Address	Contact Details
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



Historical Land Use Information (1:10,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts	◆		
Disturbed Ground	◆		
General Quarrying	◆		
Heap, unknown constituents	◆		
Mineral Railway	◆		
Mining and Quarrying General	◆		
Mining of Coal & Lignite	◆		
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	◆		

Historical Land Use

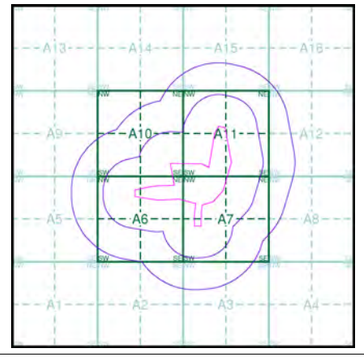
	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	●		
Potentially Infilled Land (Water)	●		
Former Marsh	✠		

Mining Data

Potential Mining Area

BGS Recorded Mineral Site

Mining and Ground Stability - Slice A



Order Details

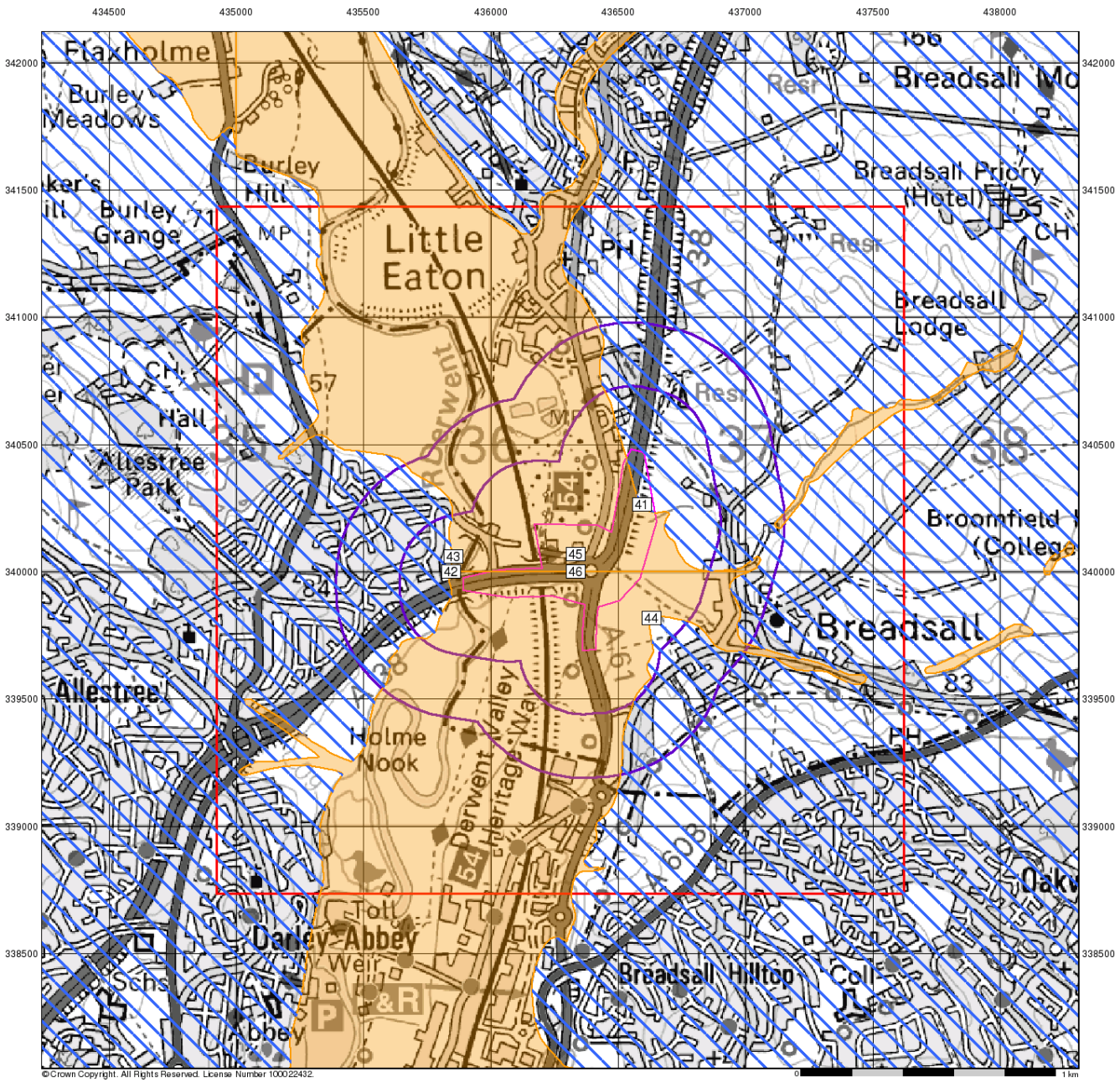
Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Potential for Compressible Ground Stability Hazards

High | Low | Moderate | Very Low

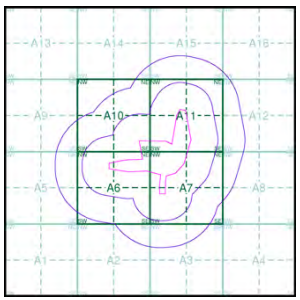
Potential for Collapsible Ground Stability Hazards

High | Low | Moderate | Very Low

Brine Pumping and Salt Mining

	Point	Polygon
Brine Pumping Related Feature	▲	▨
Salt Mining Related Feature	▲	▨

Mining and Ground Stability - Slice A



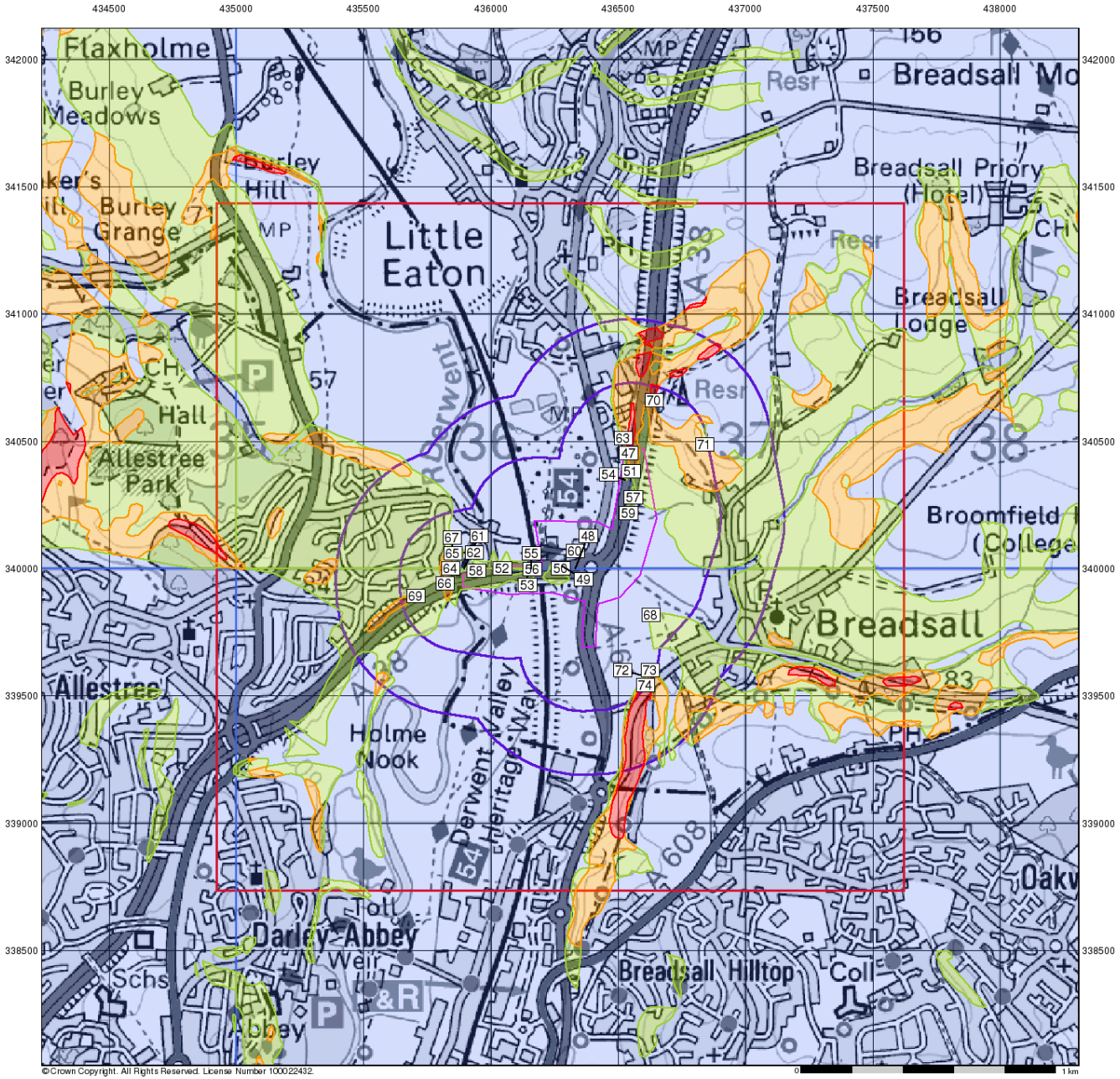
Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

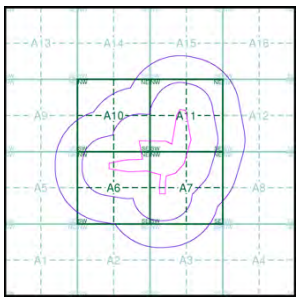
Potential for Landslide Ground Stability Hazards

High | Low
Moderate | Very Low

Potential for Ground Dissolution Stability Hazards

High | Low
Moderate | Very Low

Mining and Ground Stability - Slice A



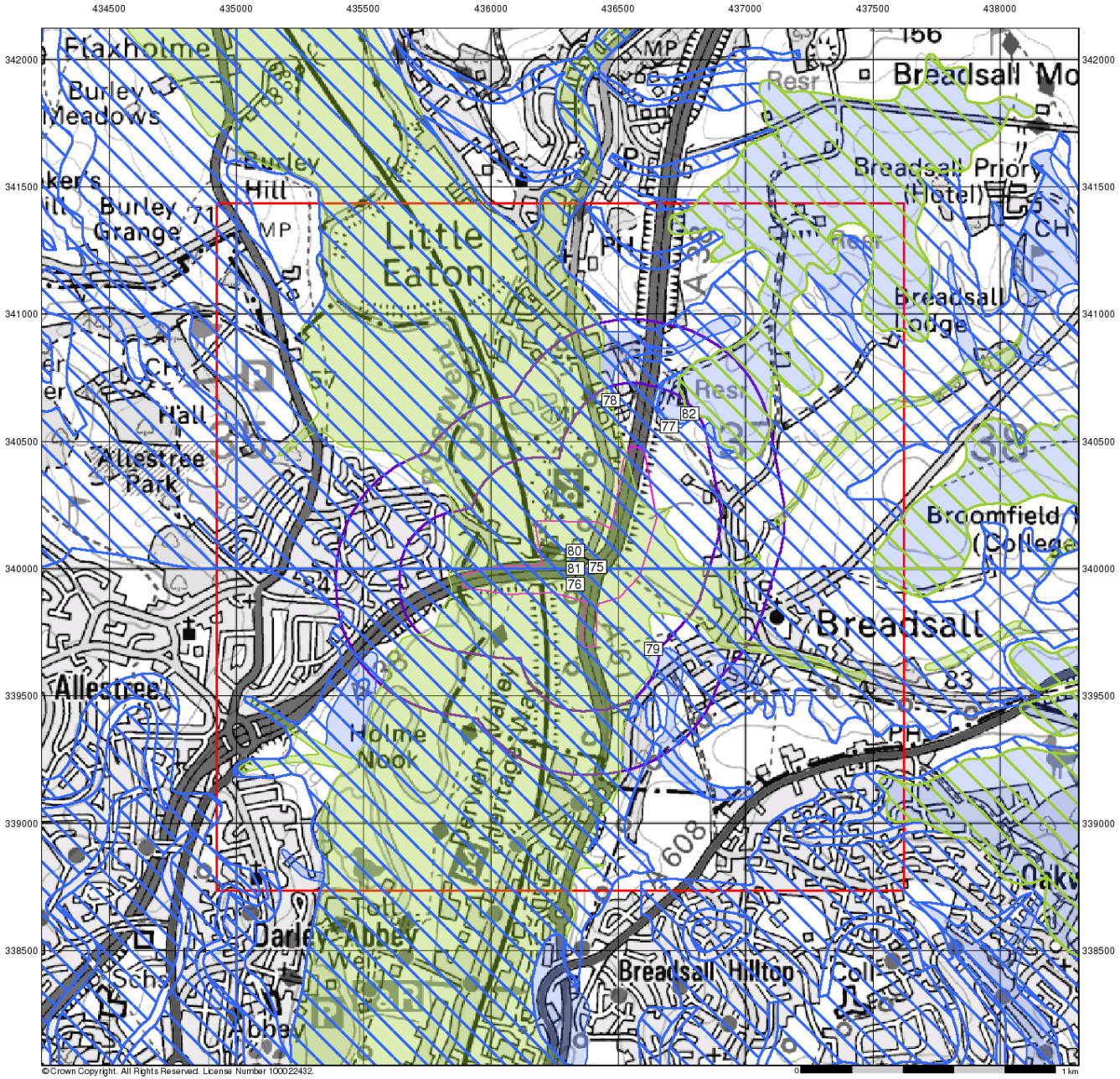
Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

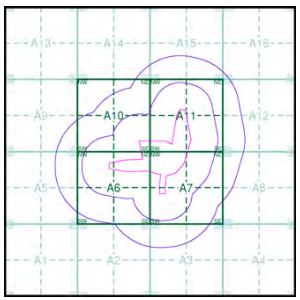
Potential for Running Sand Ground Stability Hazards

High | Low
Moderate | Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

High | Low
Moderate | Very Low

Mining and Ground Stability - Slice A



Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:
60386902_1_1

Customer Reference:
47071637.208APS

National Grid Reference:
436330, 340070

Slice:
A

Site Area (Ha):
19.55

Search Buffer (m):
500

Site Details:

Site at
Derby
City of Derby

Client Details:

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URS Infrastructure & Environment UK Ltd
Royal Court
Basil Close
Chesterfield
Derbyshire
S41 7SL

Prepared For:

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Royal Court
Basil Close
Chesterfield
Derbyshire
S41 7SL

Contents

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	2
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	4
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	6
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Motion Map Data (1:2,500)	9
The Motion Map Data (1:2,500) section contains data which is plotted to indicate long-term stability trends from analysis of satellite radar data.	
Historical Map List	13
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

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Report Version v49.0

Envirocheck® Mining

Summary

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Coal Mining Affected Areas			n/a	n/a
Man Made Mining Cavities				
Mining Instability			n/a	n/a
Natural Cavities				
Non Coal Mining Areas of Great Britain	pg 1	Yes		n/a
Potential Mining Areas				
Historical Land Use Information (1:2,500)				
Extractive Industries or Potential Excavations from 1855-1909				n/a
Extractive Industries or Potential Excavations from 1893-1915				n/a
Extractive Industries or Potential Excavations from 1906-1937				n/a
Extractive Industries or Potential Excavations from 1924-1949				n/a
Extractive Industries or Potential Excavations from 1950-1980	pg 2	2	13	n/a
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General Quarrying				
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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m
Ground Stability Data (1:50,000)				
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Brine Pumping Related Features				
Brine Subsidence Solution Area				
Potential for Collapsible Ground Stability Hazards	pg 6	Yes	Yes	n/a
Potential for Compressible Ground Stability Hazards	pg 6	Yes	Yes	n/a
Potential for Ground Dissolution Stability Hazards	pg 6	Yes		n/a
Potential for Landslide Ground Stability Hazards	pg 6	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 8	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 8	Yes	Yes	n/a
Salt Mining Related Features				
Subsidence Insurance Claims				n/a
Subsidence Investigations				n/a
Motion Map Data (1:2,500)				
Motion Map	pg 9	6	56	n/a

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Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**BGS Recorded Mineral Sites** Site Name: Breadsall Gravel Pit Location: , Breadsall, Derby Source: British Geological Survey, National Geoscience Information Service Reference: 34518 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Mid Pleistocene Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A11NE (NE)	270	1	436865 340530
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	1	436332 340000
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	436332 340068

Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Extractive Industries or Potential Excavations from 1950-1980** Use: Pond First Map Published Date: 1961 Last Map Published Date: N/A	A11SW (E)	0	-	436539 340140
3	**Extractive Industries or Potential Excavations from 1950-1980** Use: Railway Embankment First Map Published Date: 1961 Last Map Published Date: N/A	A10SE (W)	0	-	436188 340109
4	**Extractive Industries or Potential Excavations from 1950-1980** Use: Air Shaft First Map Published Date: 1968 Last Map Published Date: N/A	A6NE (W)	30	-	435964 340022
5	**Extractive Industries or Potential Excavations from 1950-1980** Use: Pond First Map Published Date: 1968 Last Map Published Date: N/A	A6NW (W)	74	-	435856 340040
6	**Extractive Industries or Potential Excavations from 1950-1980** Use: Railway Embankment First Map Published Date: 1956 Last Map Published Date: 1960	A6NE (SW)	79	-	436219 339824
7	**Extractive Industries or Potential Excavations from 1950-1980** Use: Air Shaft First Map Published Date: 1970 Last Map Published Date: N/A	A6NW (SW)	115	-	435845 339821
8	**Extractive Industries or Potential Excavations from 1950-1980** Use: Pond First Map Published Date: 1961 Last Map Published Date: N/A	A11SE (E)	127	-	436772 340247
9	**Extractive Industries or Potential Excavations from 1950-1980** Use: Unspecified Deposited Material First Map Published Date: 1961 Last Map Published Date: N/A	A11NW (N)	189	-	436538 340669
10	**Extractive Industries or Potential Excavations from 1950-1980** Use: Air Shaft First Map Published Date: 1970 Last Map Published Date: N/A	A6SE (SW)	191	-	436018 339707
11	**Extractive Industries or Potential Excavations from 1950-1980** Use: Ponds First Map Published Date: 1961 Last Map Published Date: N/A	A11SE (E)	193	-	436836 340263
12	**Extractive Industries or Potential Excavations from 1950-1980** Use: Ponds First Map Published Date: 1961 Last Map Published Date: N/A	A11SE (E)	201	-	436842 340276

Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Extractive Industries or Potential Excavations from 1950-1980** Use: Ponds First Map Published Date: 1961 Last Map Published Date: N/A	A11SE (NE)	210	-	436849 340285
14	**Extractive Industries or Potential Excavations from 1950-1980** Use: Pond First Map Published Date: 1961 Last Map Published Date: N/A	A11NW (N)	224	-	436481 340693
15	**Extractive Industries or Potential Excavations from 1950-1980** Use: Unspecified Pit First Map Published Date: 1961 Last Map Published Date: N/A	A11NE (NE)	231	-	436828 340515
16	**Extractive Industries or Potential Excavations from 1950-1980** Use: Air Shaft First Map Published Date: 1961 Last Map Published Date: N/A	A11NW (N)	233	-	436331 340564

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**Air Shafts** Use: Not Supplied Date of Mapping: 1919 - 1981	A6NE (W)	32	-	435959 340023
18	**Air Shafts** Use: Not Supplied Date of Mapping: 1919 - 1992	A6NW (SW)	114	-	435845 339823
19	**Air Shafts** Use: Not Supplied Date of Mapping: 1919 - 1955	A10SW (W)	167	-	435830 340130
20	**Air Shafts** Use: Not Supplied Date of Mapping: 1919 - 1992	A6SE (SW)	199	-	436007 339706
21	**Air Shafts** Use: Not Supplied Date of Mapping: 1887 - 1981	A11NW (N)	238	-	436327 340567
22	**Air Shafts** Use: Not Supplied Date of Mapping: 1919 - 1981	A10SE (NW)	270	-	435947 340336
23	**Air Shafts** Use: Not Supplied Date of Mapping: 1887 - 1955	A10NE (N)	354	-	436208 340593
24	**Air Shafts** Use: Not Supplied Date of Mapping: 1919 - 1992	A6SW (SW)	423	-	435785 339517
25	**Air Shafts** Use: Not Supplied Date of Mapping: 1887 - 1981	A10NE (NW)	430	-	436104 340610
26	**Air Shafts** Use: Not Supplied Date of Mapping: 1887 - 1981	A10NE (NW)	475	-	435996 340626
27	**Air Shafts** Use: Not Supplied Date of Mapping: 1919 - 1981	A10NW (NW)	482	-	435818 340514
28	**Air Shafts** Use: Not Supplied Date of Mapping: 1919 - 1992	A6SW (SW)	493	-	435860 339432
29	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1887	A11NE (NE)	221	-	436816 340524
30	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1981	A10SW (W)	167	-	435830 340130
31	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1981	A11NE (NE)	221	-	436816 340524
32	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1981	A10NE (N)	354	-	436208 340593
33	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7NW (SE)	0	-	436429 340002
34	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A11SW (E)	0	-	436423 340100
35	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A11SW (NE)	0	-	436409 340140
36	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A7SW (S)	2	-	436399 339691
37	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A6NW (SW)	66	-	435883 339860

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A7SE (SE)	402	-	436806 339613
39	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A5NE (W)	458	-	435435 339891
40	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A3NW (S)	471	-	436445 339224

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Brine Compensation Area The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
41	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	436593 340264
42	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	46	1	435843 340000
43	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	55	1	435852 340059
44	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	135	1	436629 339818
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	1	436332 340000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	436332 340068
45	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	436332 340068
46	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	1	436332 340000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	436593 340264
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	46	1	435843 340000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	55	1	435852 340059
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	135	1	436629 339818
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	436332 340068
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	1	436332 340000
47	**Potential for Landslide Ground Stability Hazards** Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	436540 340452
48	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	1	436332 340000
49	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (SW)	0	1	436278 340010
50	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (SW)	0	1	436275 340000
51	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	436550 340381

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (W)	0	1	436045 340000
53	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	1	436143 339990
54	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	436527 340346
55	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (W)	0	1	436160 340000
56	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	1	436161 339997
57	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	436558 340280
58	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NE (W)	0	1	435942 339990
59	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	436541 340217
60	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	436332 340068
61	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	18	1	435895 340000
62	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	27	1	435895 340061
63	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	32	1	436520 340487
64	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	46	1	435843 340000
65	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	55	1	435852 340059
66	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	71	1	435821 339945
67	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	96	1	435850 340069
68	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	135	1	436629 339818
69	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	190	1	435705 339893
70	**Potential for Landslide Ground Stability Hazards** Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	196	1	436642 340660
71	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	222	1	436840 340486
72	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7SW (SE)	224	1	436608 339574

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	237	1	436627 339578
74	**Potential for Landslide Ground Stability Hazards** Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A7SW (SE)	246	1	436608 339541
75	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	436332 340068
76	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	1	436332 340000
77	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	136	1	436707 340557
78	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	197	1	436473 340660
79	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	210	1	436641 339683
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	436593 340264
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	46	1	435843 340000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	55	1	435852 340059
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	135	1	436629 339818
80	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (N)	0	1	436332 340068
81	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (S)	0	1	436332 340000
82	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	226	1	436781 340607
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	148	1	436690 340588

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A7NW (W)	0	-	436311 340060
84	**Motion Map** Average Velocity Gradient (mmyear): -0.9	A6NW (W)	0	-	435921 339964
84	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A6NW (W)	0	-	435918 339965
85	**Motion Map** Average Velocity Gradient (mmyear): -1.2	A6NE (W)	0	-	436119 340001
86	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A11SW (NE)	0	-	436545 340358
87	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A11NW (NE)	0	-	436564 340447
88	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A6NW (W)	5	-	435888 339956
89	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NW (W)	6	-	435886 339968
89	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A6NW (W)	7	-	435886 339964
90	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A6NE (W)	7	-	436022 340011
91	**Motion Map** Average Velocity Gradient (mmyear): -1.2	A6NE (W)	22	-	436174 340046
91	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A6NE (W)	25	-	436170 340051
92	**Motion Map** Average Velocity Gradient (mmyear): 1.8	A10SE (NW)	53	-	436145 340232
93	**Motion Map** Average Velocity Gradient (mmyear): -2.2	A6NE (SW)	85	-	436197 339817
94	**Motion Map** Average Velocity Gradient (mmyear): 1.2	A6NW (W)	107	-	435785 339970
94	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A6NW (W)	114	-	435779 339976
95	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A6NW (W)	114	-	435779 339988
95	**Motion Map** Average Velocity Gradient (mmyear): 0.8	A6NW (W)	115	-	435779 339992
96	**Motion Map** Average Velocity Gradient (mmyear): -6.1	A6NE (SW)	117	-	436196 339785
97	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A6NW (W)	122	-	435776 340009

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	**Motion Map** Average Velocity Gradient (mmyear): 3.3	A10SE (NW)	127	-	436128 340305
99	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A11NW (N)	151	-	436427 340563
100	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A11SE (NE)	157	-	436784 340346
101	**Motion Map** Average Velocity Gradient (mmyear): -0.7	A11NW (NE)	178	-	436587 340654
101	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A11NW (NE)	182	-	436590 340657
102	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A11NE (NE)	182	-	436614 340651
103	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A6NW (W)	189	-	435704 339932
104	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A10SW (W)	189	-	435759 340110
104	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A10SW (W)	192	-	435759 340114
105	**Motion Map** Average Velocity Gradient (mmyear): 0.9	A6NW (W)	191	-	435702 339920
106	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A11NE (NE)	191	-	436662 340649
106	**Motion Map** Average Velocity Gradient (mmyear): -0.6	A11NE (NE)	195	-	436664 340653
107	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A11NW (N)	194	-	436490 340663
107	**Motion Map** Average Velocity Gradient (mmyear): -0.1	A11NW (N)	194	-	436489 340663
107	**Motion Map** Average Velocity Gradient (mmyear): 0.7	A11NW (N)	196	-	436493 340667
107	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A11NW (N)	199	-	436489 340668
108	**Motion Map** Average Velocity Gradient (mmyear): -0.5	A10SW (W)	197	-	435790 340144
109	**Motion Map** Average Velocity Gradient (mmyear): 1.6	A11NW (N)	200	-	436492 340671
110	**Motion Map** Average Velocity Gradient (mmyear): 1.3	A11NW (N)	203	-	436480 340669
111	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A6NW (W)	203	-	435690 339955

Motion Map Data (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	**Motion Map** Average Velocity Gradient (mmyear): -0.2	A10SW (W)	204	-	435731 340100
112	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A10SW (W)	208	-	435730 340105
112	**Motion Map** Average Velocity Gradient (mmyear): 0.5	A10SW (W)	208	-	435727 340101
113	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A11NW (NE)	214	-	436607 340686
113	**Motion Map** Average Velocity Gradient (mmyear): -1.1	A11NW (NE)	218	-	436609 340689
114	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A11SE (E)	219	-	436861 340271
114	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A11SE (E)	221	-	436864 340266
114	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A11SE (E)	226	-	436868 340269
114	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A11SE (E)	227	-	436870 340265
115	**Motion Map** Average Velocity Gradient (mmyear): 0.6	A11NW (NE)	221	-	436606 340694
115	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A11NE (NE)	230	-	436611 340701
116	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A10SW (W)	223	-	435794 340175
117	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A10SW (W)	228	-	435725 340130
117	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A10SW (W)	230	-	435726 340134
117	**Motion Map** Average Velocity Gradient (mmyear): 0.3	A10SW (W)	231	-	435721 340131
117	**Motion Map** Average Velocity Gradient (mmyear): 0.2	A10SW (W)	233	-	435722 340135
118	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A11NE (NE)	241	-	436611 340713
118	**Motion Map** Average Velocity Gradient (mmyear): -0.4	A11NE (NE)	245	-	436614 340717
119	**Motion Map** Average Velocity Gradient (mmyear): 0.0	A10SW (W)	244	-	435750 340174
119	**Motion Map** Average Velocity Gradient (mmyear): 0.4	A10SW (W)	245	-	435752 340177

Motion Map Data (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A11NE (NE)	247	-	436707 340692
121	**Motion Map** Average Velocity Gradient (mmyear): 0.1	A11NE (NE)	249	-	436614 340721

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Derbyshire	050_01	1882
Derbyshire	050_01	1882
Derbyshire	050_01	1882
Derbyshire	050_01	1882
Derbyshire	050_01	1900
Derbyshire	050_01	1900
Derbyshire	050_01	1900
Derbyshire	050_01	1900
Derbyshire	050_01	1914
Derbyshire	050_01	1914
Derbyshire	050_01	1914
Derbyshire	050_01	1914
Derbyshire	050_01	1938
Derbyshire	050_01	1938
Derbyshire	050_01	1938
Derbyshire	050_01	1938
Ordnance Survey Plan	SK3640	1961
Ordnance Survey Plan	SK3640	1961
Ordnance Survey Plan	SK3640	1961
Ordnance Survey Plan	SK3640	1961
Ordnance Survey Plan	SK3540	1968
Ordnance Survey Plan	SK3540	1968
Ordnance Survey Plan	SK3539	1970
Ordnance Survey Plan	SK3639	1970
Ordnance Survey Plan	SK3639	1970

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Derbyshire	050_NW	1887
Derbyshire	045_SW	1888
Derbyshire	045_SW	1901
Derbyshire	050_NW	1901
Derbyshire	050_NW	1919
Derbyshire	045_SW	1921
Derbyshire	045_SW	1938
Derbyshire	050_NW	1938
Ordnance Survey Plan	SK33NW	1955
Ordnance Survey Plan	SK34SE	1955
Ordnance Survey Plan	SK34SW	1955
Ordnance Survey Plan	SK33NE	1956
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	SK34SE	1981
Ordnance Survey Plan	SK33NE	1992
Ordnance Survey Plan	SK33NW	1992
Ordnance Survey Plan	SK34SW	1992

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2014	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	December 2013	As notified
Man Made Mining Cavities Peter Brett Associates	October 2013	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	October 2013	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
Historical Land Use Information (1:2,500)	**Version**	**Update Cycle**
Subterranean Features Landmark Information Group Limited	April 2014	Bi-Annually
Ground Stability Data (1:50,000)	**Version**	**Update Cycle**
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Subsidence Insurance Claims SP Property Services	August 2014	Quarterly
Subsidence Investigations CET Structures Ltd	August 2014	Quarterly

Motion Map Data (1:2,500)	Version	Update Cycle
Motion Map		
Nigel Press Associates - Hampshire	February 2011	As notified
Nigel Press Associates - Cambridge	January 2011	As notified
Nigel Press Associates - Ipswich	January 2011	As notified
Nigel Press Associates - Norwich	January 2011	As notified
Nigel Press Associates - Peterborough	January 2011	As notified
Nigel Press Associates - Barnstaple	July 2010	As notified
Nigel Press Associates - Derbyshire	July 2010	As notified
Nigel Press Associates - Humberside	July 2010	As notified
Nigel Press Associates - Kent	July 2010	As notified
Nigel Press Associates - Lincolnshire	July 2010	As notified
Nigel Press Associates - Nottinghamshire	July 2010	As notified
Nigel Press Associates - Birmingham	May 2009	As notified
Nigel Press Associates - Bournemouth	May 2009	As notified
Nigel Press Associates - Brighton	May 2009	As notified
Nigel Press Associates - Bristol	May 2009	As notified
Nigel Press Associates - Cardiff	May 2009	As notified
Nigel Press Associates - Central London	May 2009	As notified
Nigel Press Associates - Cheltenahm	May 2009	As notified
Nigel Press Associates - Coventry	May 2009	As notified
Nigel Press Associates - Crawley	May 2009	As notified
Nigel Press Associates - Edinburgh	May 2009	As notified
Nigel Press Associates - Exeter	May 2009	As notified
Nigel Press Associates - Glasgow	May 2009	As notified
Nigel Press Associates - Isle of Wight	May 2009	As notified
Nigel Press Associates - Leeds	May 2009	As notified
Nigel Press Associates - Leicester	May 2009	As notified
Nigel Press Associates - Liverpool	May 2009	As notified
Nigel Press Associates - Manchester	May 2009	As notified
Nigel Press Associates - Milton Keynes	May 2009	As notified
Nigel Press Associates - Newcastle	May 2009	As notified
Nigel Press Associates - Northwich	May 2009	As notified
Nigel Press Associates - Nottingham	May 2009	As notified
Nigel Press Associates - Oxford	May 2009	As notified
Nigel Press Associates - Plymouth	May 2009	As notified
Nigel Press Associates - Portsmouth	May 2009	As notified
Nigel Press Associates - Preston	May 2009	As notified
Nigel Press Associates - Reading	May 2009	As notified
Nigel Press Associates - Sheffield	May 2009	As notified
Nigel Press Associates - Stoke	May 2009	As notified
Nigel Press Associates - Swindon	May 2009	As notified
Nigel Press Associates - Tonbridge	May 2009	As notified
Nigel Press Associates - North London	November 2008	As notified
Nigel Press Associates - Head Office	September 2008	As notified

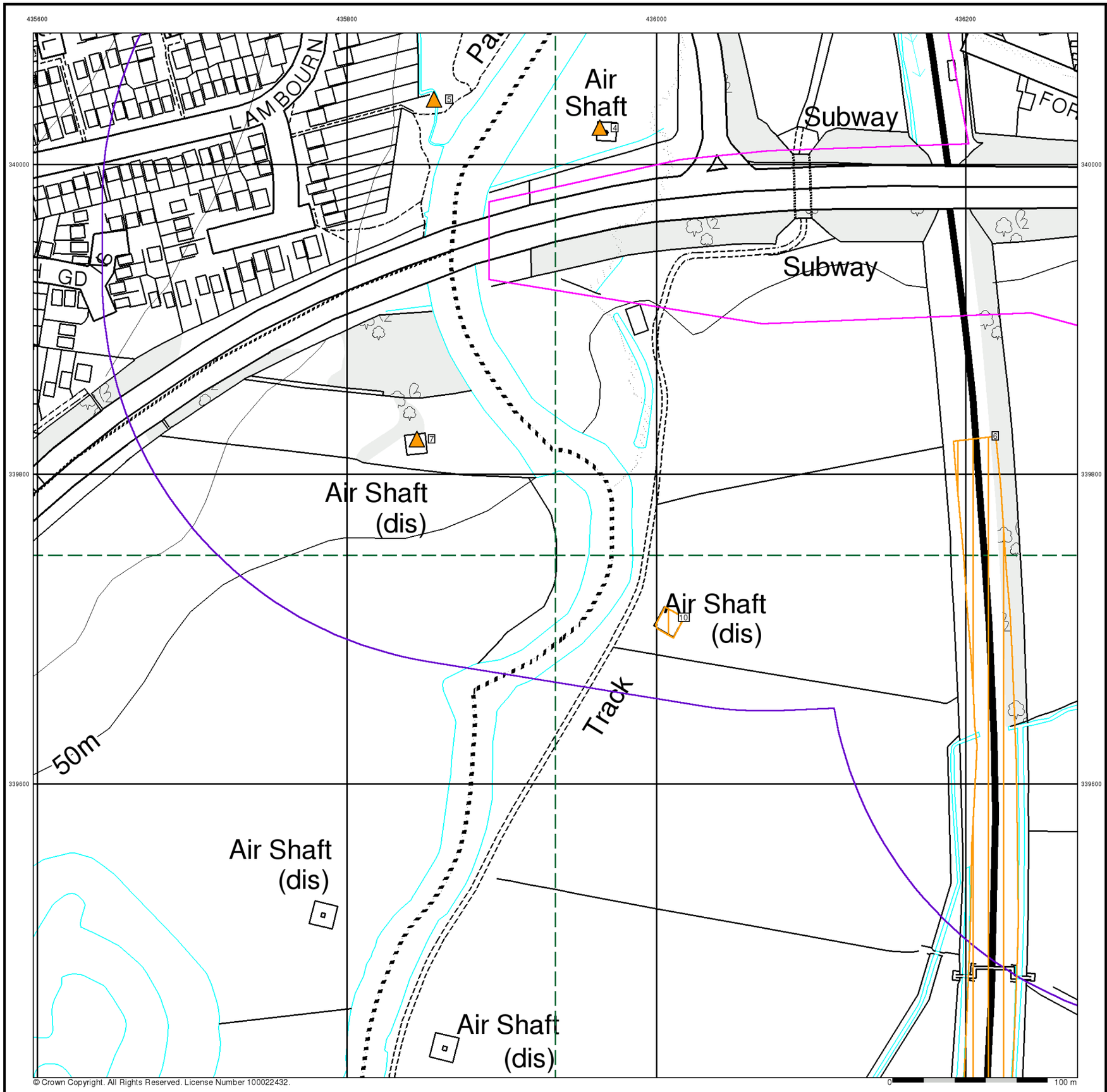
Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Ordnance Survey Licensed Partner
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	THE COAL AUTHORITY
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett
Wardell Armstrong	wardell armstrong your earth our world
Johnson Poole & Bloomer	JPB

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**The Coal Authority - Mining Report Service** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



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Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

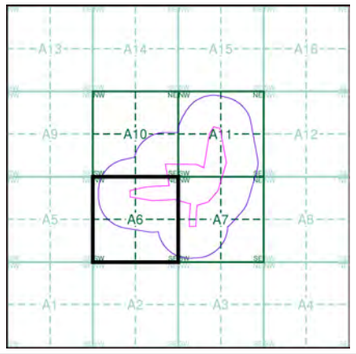
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▩
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▤
Extractive Industries Activity from 1924 - 1949	▲	—	▧
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▩

Mining and Ground Stability - Segment A6



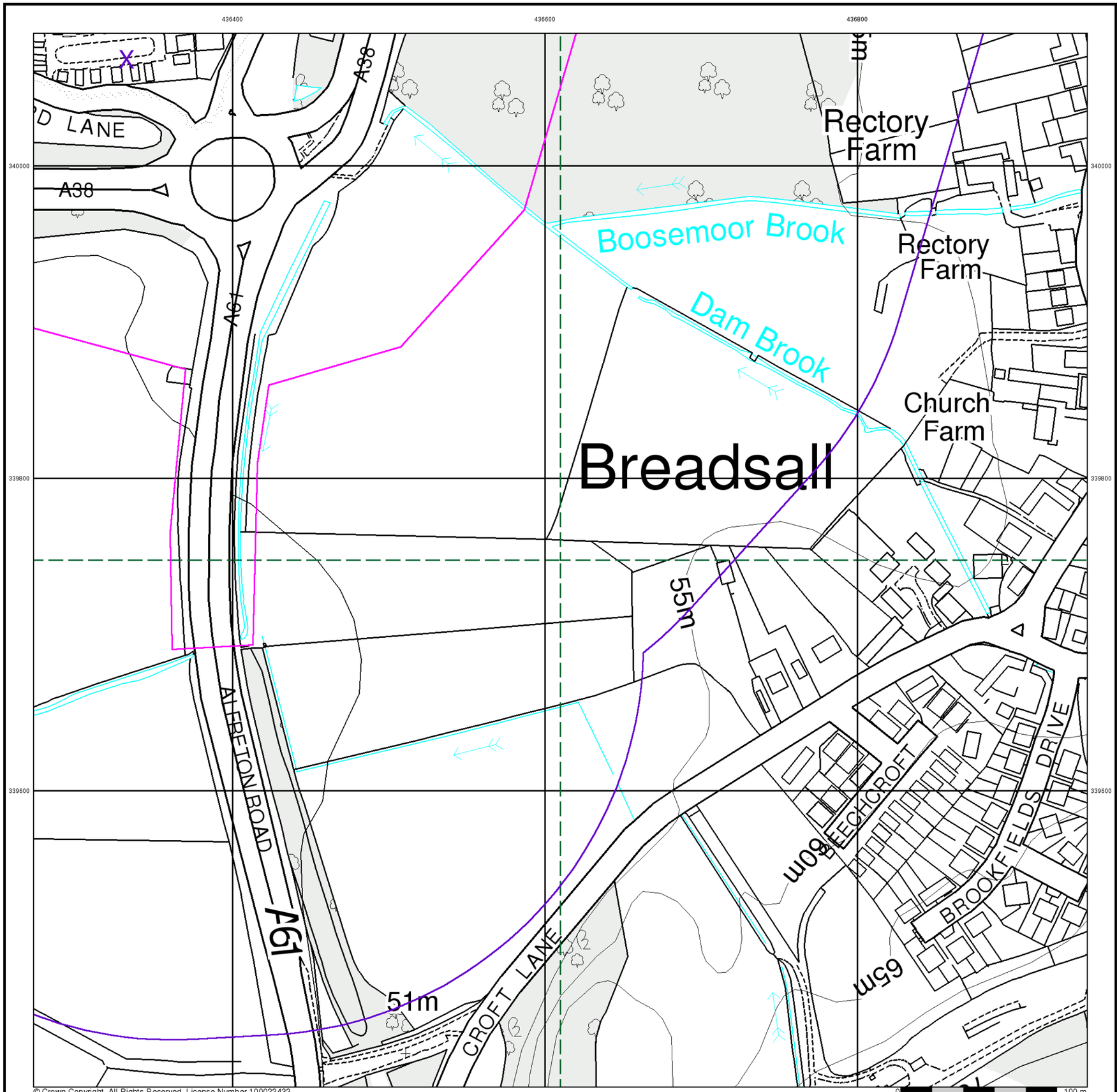
Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

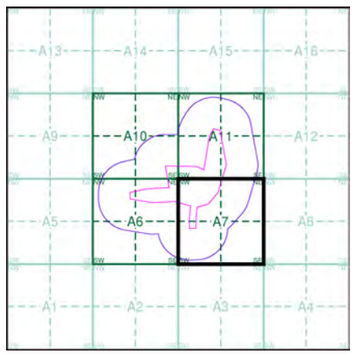
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

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Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▦
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A7



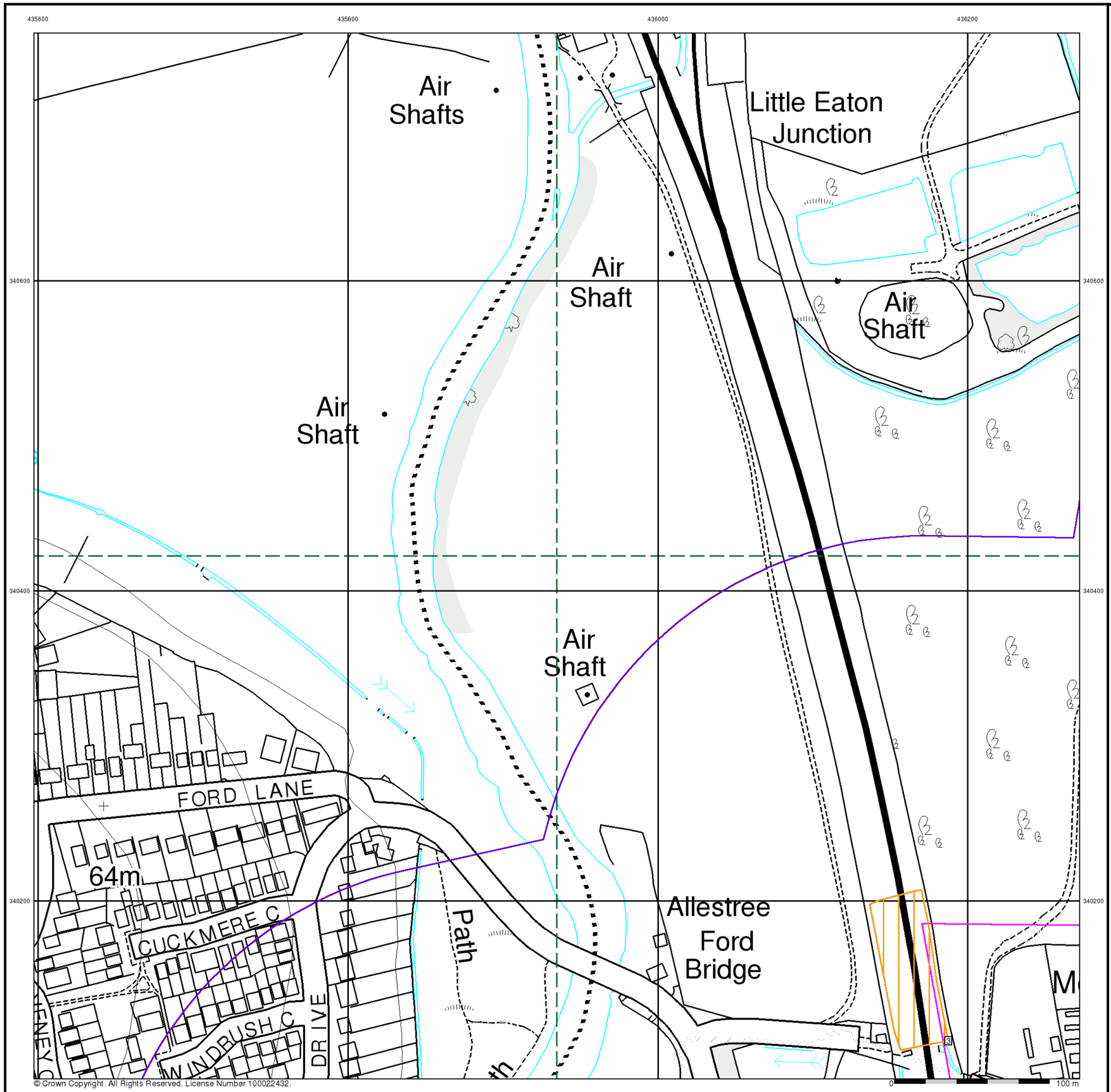
Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
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Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

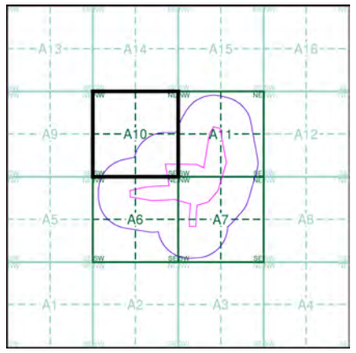
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

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Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▤
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A10



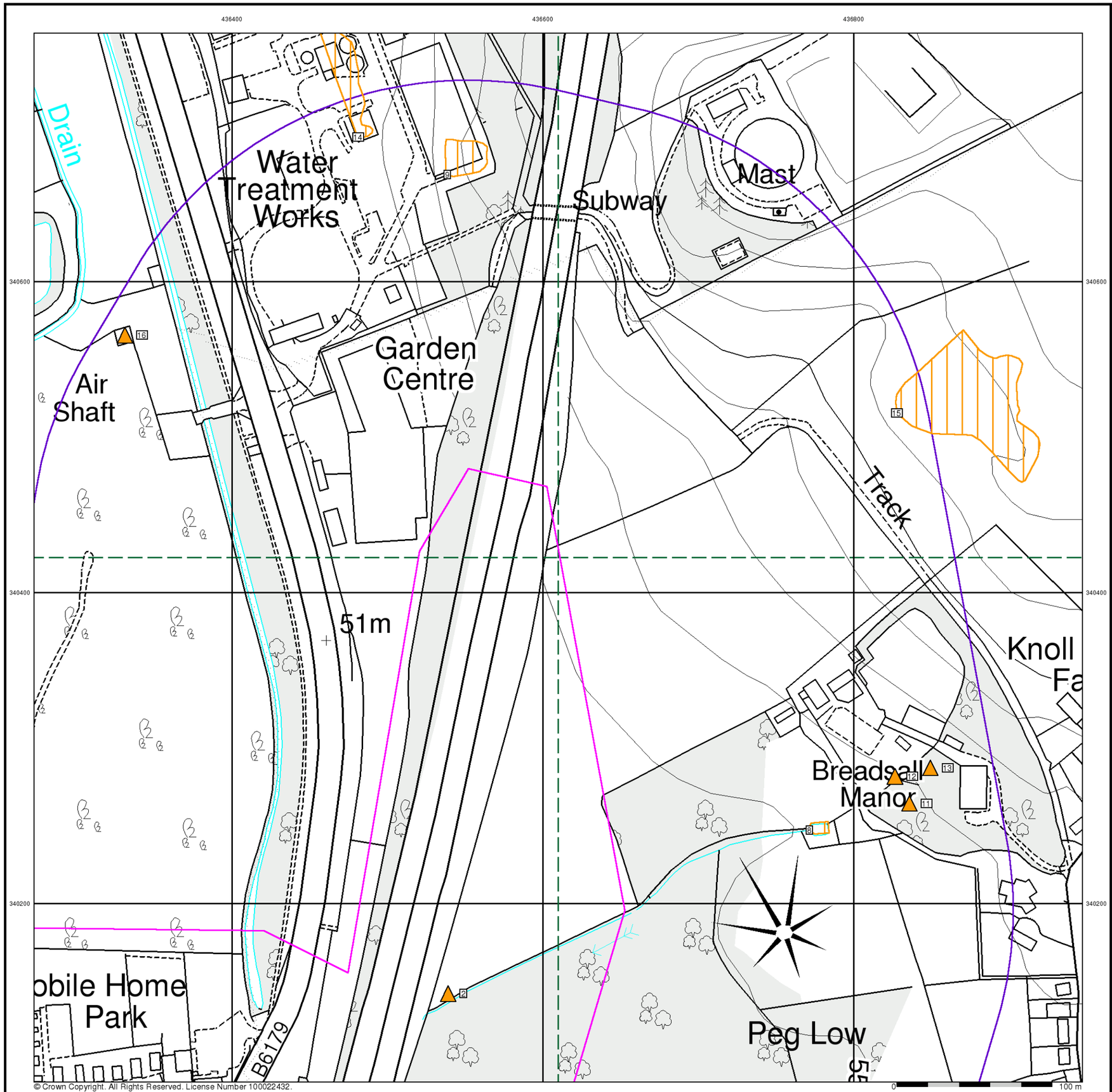
Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

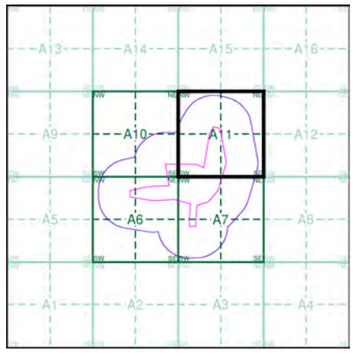
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

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Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A11



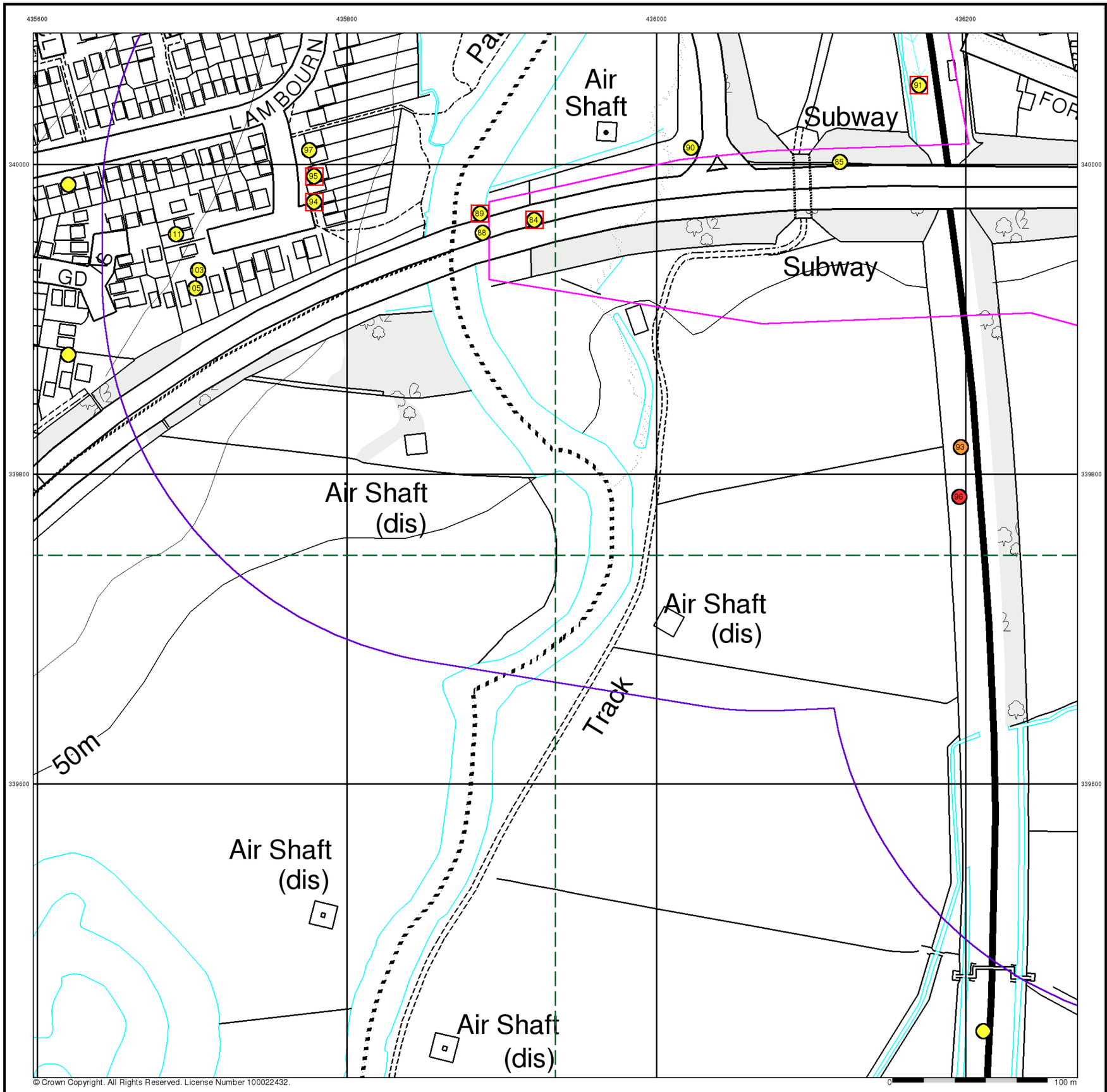
Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Motion Map Data (1:2,500)

General

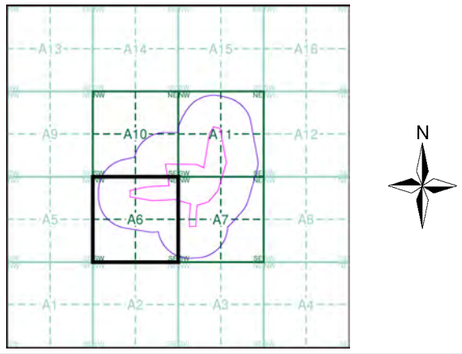
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

Upward Movement > 3.5mm per year	
Upward Movement 1.5mm to 3.5mm per year	
Stable 1.5mm to -1.5mm per year	
Downward Movement -1.5mm to -3.5mm per year	
Downward Movement > -3.5mm per year	

Mining and Ground Stability - Segment A6



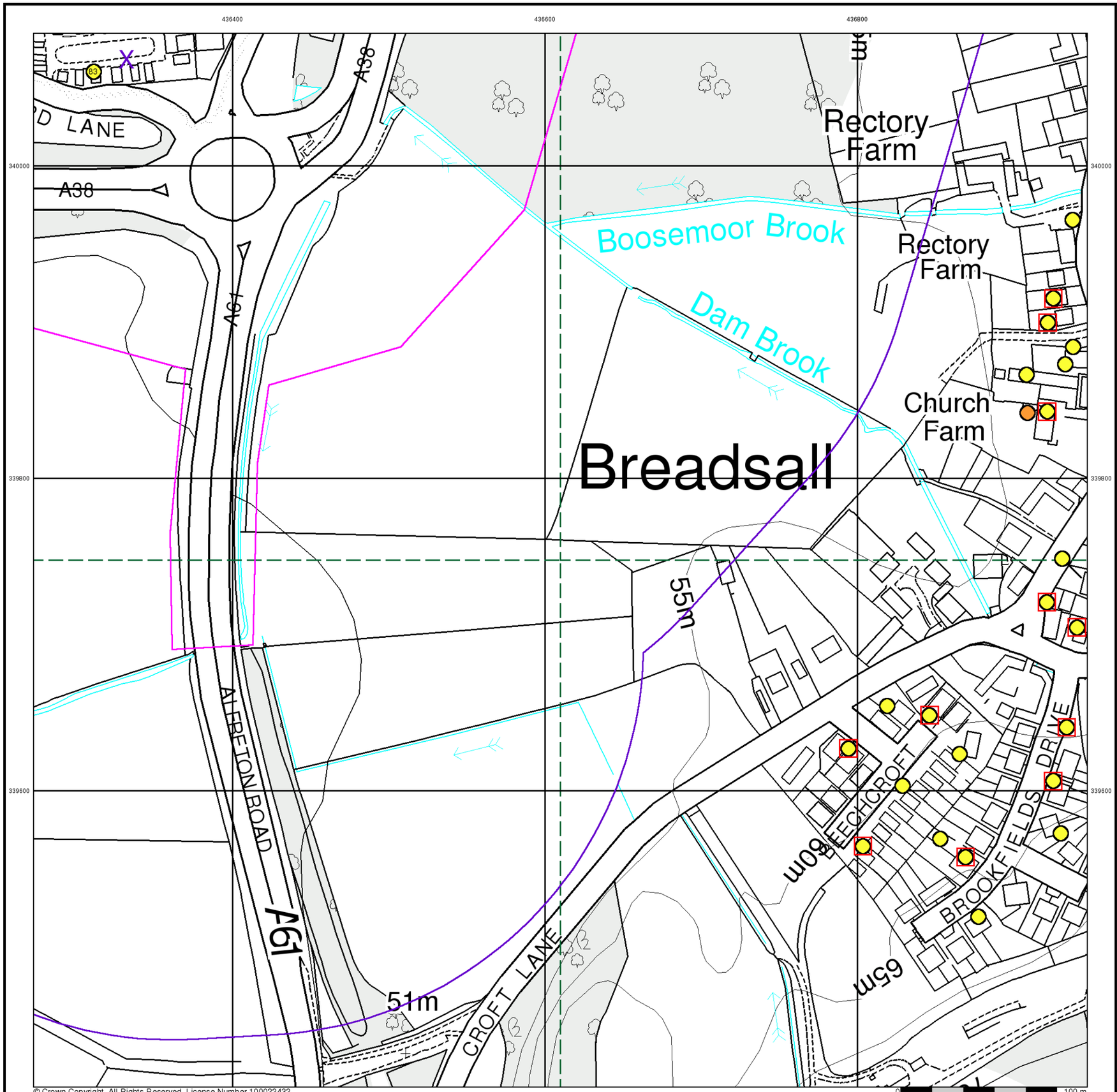
Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Envirocheck® Mining

Motion Map Data (1:2,500)

General

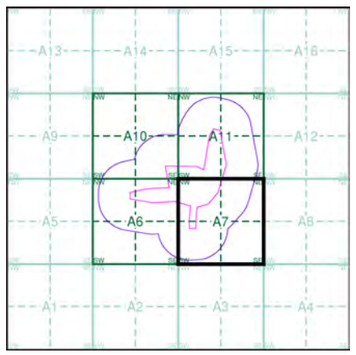
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

Upward Movement > 3.5mm per year	
Upward Movement 1.5mm to 3.5mm per year	
Stable 1.5mm to -1.5mm per year	
Downward Movement -1.5mm to -3.5mm per year	
Downward Movement > -3.5mm per year	

Mining and Ground Stability - Segment A7



Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Fax: 0844 844 9951
Web: www.envirocheck.co.uk

435600 435800 436000 436200

340600 340400 340200

Air Shafts

Air Shaft

Air Shaft

Air Shaft

Little Eaton Junction

Air Shaft

FORD LANE

64m

CUCKMERE C

WINDRUSH C

DRIVE

Path

Allestree Ford Bridge

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0 100 m

Envirocheck Mining

Motion Map Data (1:2,500)

General

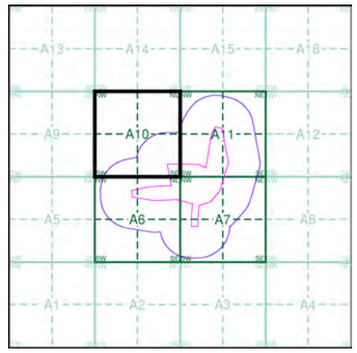
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

Upward Movement > 3.5mm per year	
Upward Movement 1.5mm to 3.5mm per year	
Stable 1.5mm to -1.5mm per year	
Downward Movement -1.5mm to -3.5mm per year	
Downward Movement > -3.5mm per year	

Mining and Ground Stability - Segment A10



Order Details

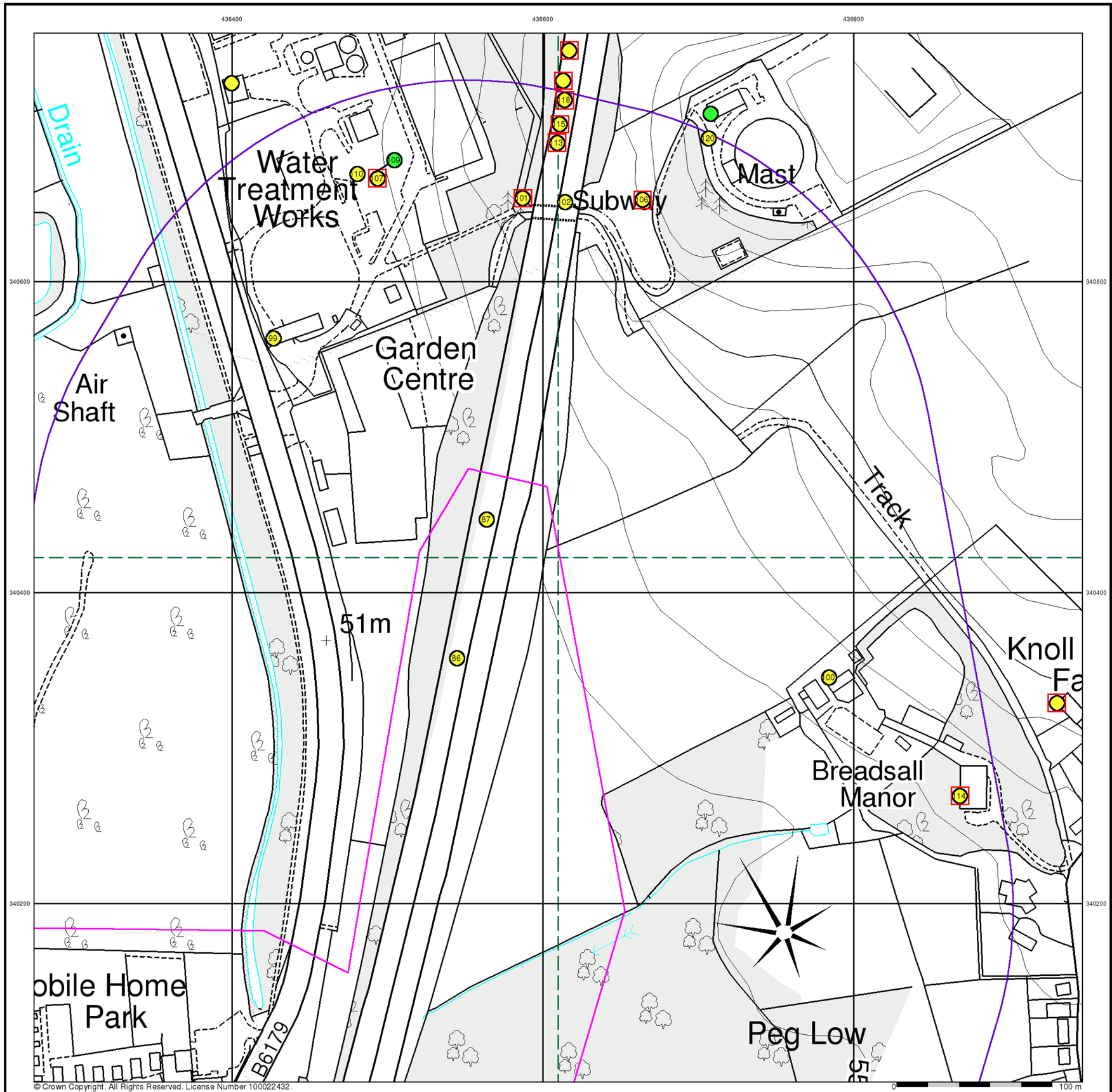
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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Envirocheck® Mining

Motion Map Data (1:2,500)

General

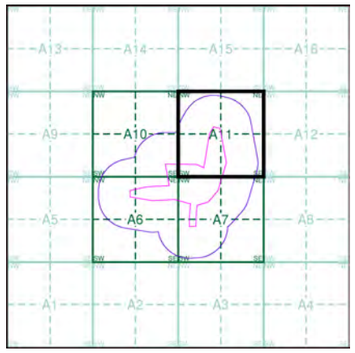
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment A11



Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Plot Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

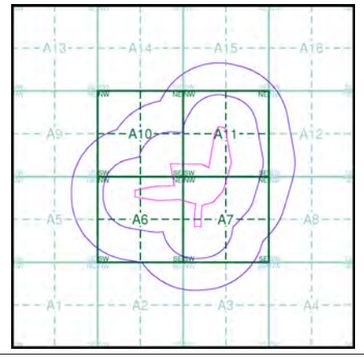
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

Envirocheck®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:10,560	1886 - 1887	3
Derbyshire	1:10,560	1901	4
Derbyshire	1:10,560	1919 - 1921	5
Derbyshire	1:10,560	1938	6
Ordnance Survey Plan	1:10,000	1955 - 1956	7
Ordnance Survey Plan	1:10,000	1969	8
Ordnance Survey Plan	1:10,000	1972 - 1975	9
Ordnance Survey Plan	1:10,000	1979	10
Ordnance Survey Plan	1:10,000	1981 - 1987	11
Derby	1:10,000	1991	12
Ordnance Survey Plan	1:10,000	1992	13
10K Raster Mapping	1:10,000	2000	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2014	16

Historical Map - Slice A



Order Details

Order Number: 60386902_1_1
Customer Ref: 47071637.208APS
National Grid Reference: 436330, 340070
Slice: A
Site Area (Ha): 19.55
Search Buffer (m): 500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Fireproof Building
- Prominent Fireproof Building
- Non-fireproof Building
- Non-fireproof Building (non-dwelling)
- Factory, mill, and flour mill, with chimneys
- Factory, mill, and flour mill, without chimneys
- Power Station, drawn to scale
- Hydroelectric Power Station
- Radio Station, drawn to scale
- Telephone Station, drawn to scale
- Abandoned Open-pit Mine or Quarry
- Open-pit Salt Mine
- Pit
- Oil Deposit or Well
- Oil Seepage
- Tailings Pile
- Fuel Storage Tanks
- Natural Gas Tank
- Bench Mark
- Drill Hole
- Burial Mound
- Triangulation Point on Burial Mound
- Single-track Railroad
- Double-track Railroad and Station Building
- Coniferous Forest
- Deciduous Forest
- Mixed Forest
- Lawns
- Citrus Orchard
- Wet Ground
- Scattered Vegetation

243,8 — Values for prominent elevations

186.0 — Numbers for spot elevations, depth soundings, contour lines, etc.

0,2 — Velocity of the current, width of river bed, depth of river

Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	ъ (–)
Д д (D)	Л л (L)	У у (U)	ы (Y)
Е е (E)	М м (M)	Ф ф (F)	ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Partly Demolished Buildings
- Demolished Buildings
- Built-Up Area with Fireproof Buildings Predominant
- Built-Up Area with Non-Fireproof Buildings Predominant
- Individual Fireproof Building
- Prominent Industrial Building
- Individual Dwelling, Fireproof
- Ruins of an Individual Dwelling
- Factory or Mill Chimney
- Factory or Mill with Chimney
- Factory or Mill without Chimney
- Mine or Open Pit Mine
- Operating Shaft or Mine
- Non-Operating Shaft or Mine
- Salt Mine
- Tailings Pile
- Pit
- Stone Quarry
- Gas Pump or Service Station
- Fuel Storage or Natural Gas Tank
- Oil or Natural Gas Derrick
- Small Hydroelectric Power Station
- Power Station
- Transformer Station
- Cemetery
- Burial Mound (height in metres)
- Triangulation Point on Burial Mound
- Triangulation Point
- Bench Mark
- Bench Mark (monumented)
- Telegraph Office
- Telephone Station
- Radio Station
- Radio Tower
- Airfield or Seaplane Base
- Landing Strip
- Main Highway
- Highway under Construction
- Improved Dirt Road (former truck road)
- Double-track Railroad with First Class Station
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- River or Ditch with Embankment
- Direction and velocity of current
- Well
- Water Reservoir or Rain Water Pit
- Spring
- Isobath with value
- Heavy (Index) Contour Line
- Contour Line and Value
- Half Contour Line
- Spot Elevation Value
- Coniferous
- Deciduous
- Mixed
- Scrub

Key to Numbers on Mapping

SK33NE_Derby

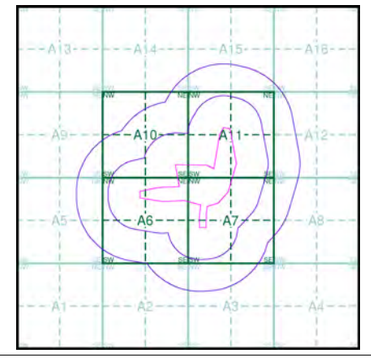
No.	Description
69	Telephone Exchange

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:10,560	1886 - 1887	3
Derbyshire	1:10,560	1901	4
Derbyshire	1:10,560	1919 - 1921	5
Derbyshire	1:10,560	1938	6
Ordnance Survey Plan	1:10,000	1955 - 1956	7
Ordnance Survey Plan	1:10,000	1969	8
Ordnance Survey Plan	1:10,000	1972 - 1975	9
Ordnance Survey Plan	1:10,000	1979	10
Ordnance Survey Plan	1:10,000	1981 - 1987	11
Derby	1:10,000	1991	12
Ordnance Survey Plan	1:10,000	1992	13
10K Raster Mapping	1:10,000	2000	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2014	16

Russian Map - Slice A



Order Details

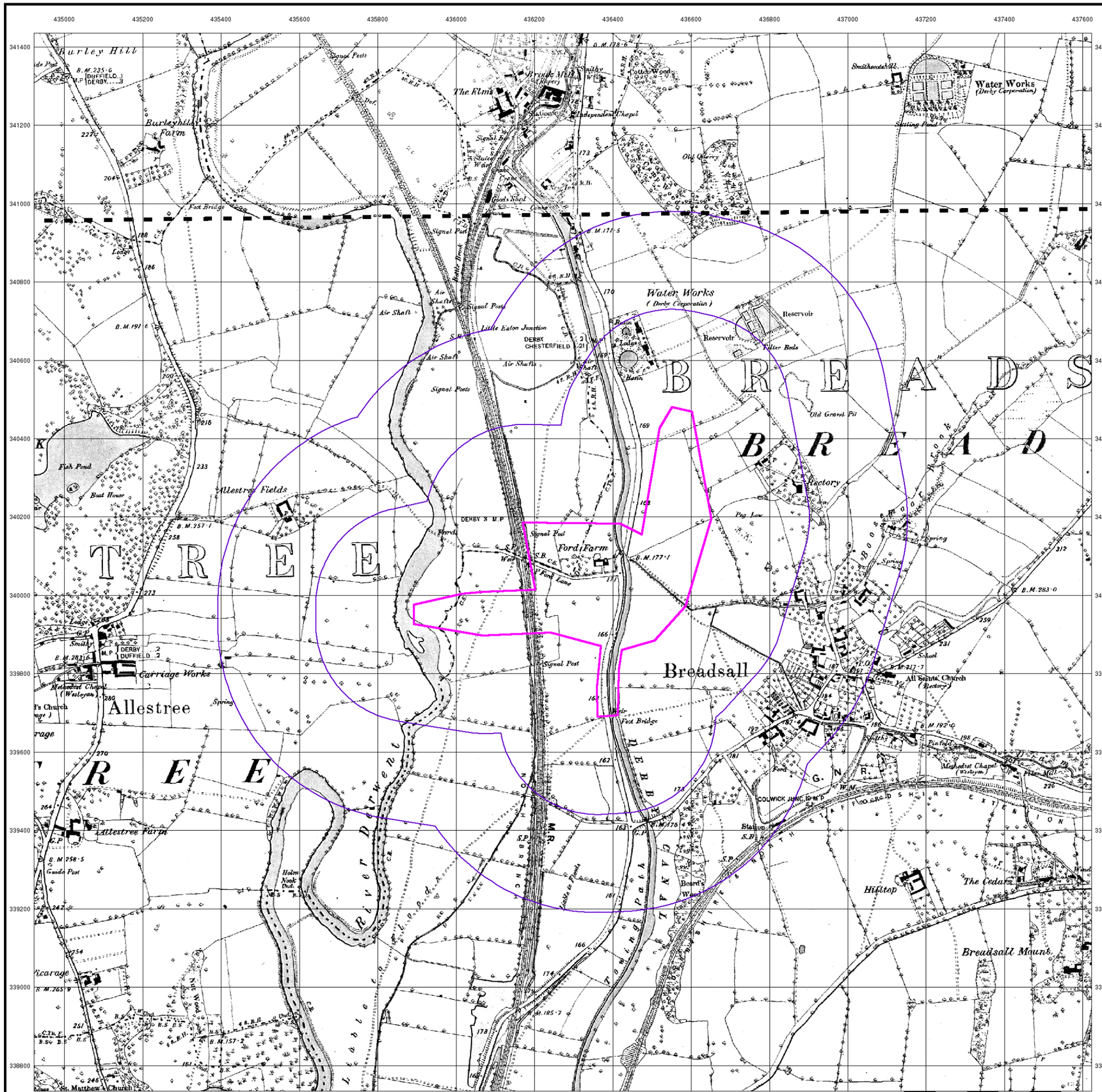
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Envirocheck®

Derbyshire

Published 1886 - 1887

Source map scale - 1:10,560

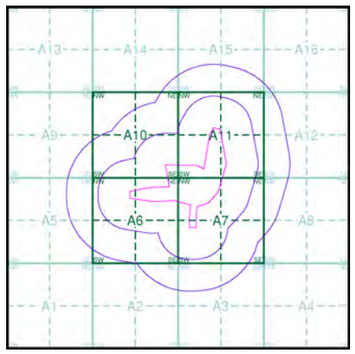
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

045SW
1887
1:10,560

050NW
1886
1:10,560

Historical Map - Slice A



Order Details

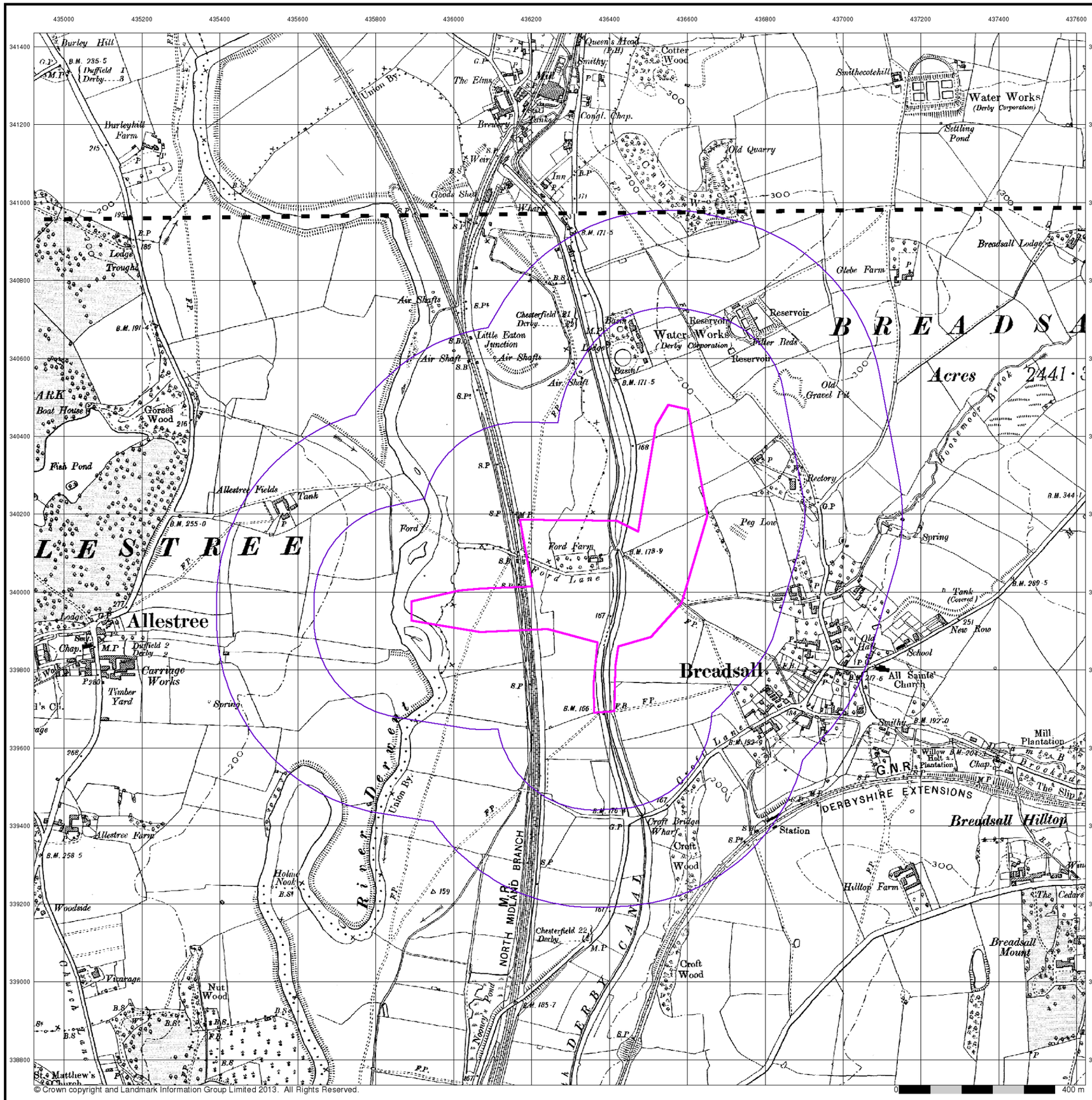
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Customer Ref:	47071637.208APS
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Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

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Derbyshire

Published 1901

Source map scale - 1:10,560

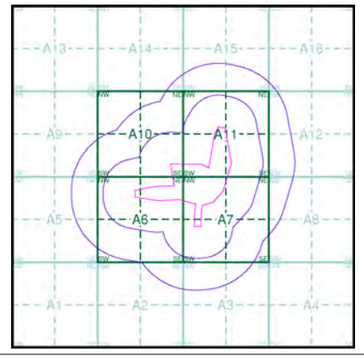
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

045SW
1901
1:10,560

050NW
1901
1:10,560

Historical Map - Slice A



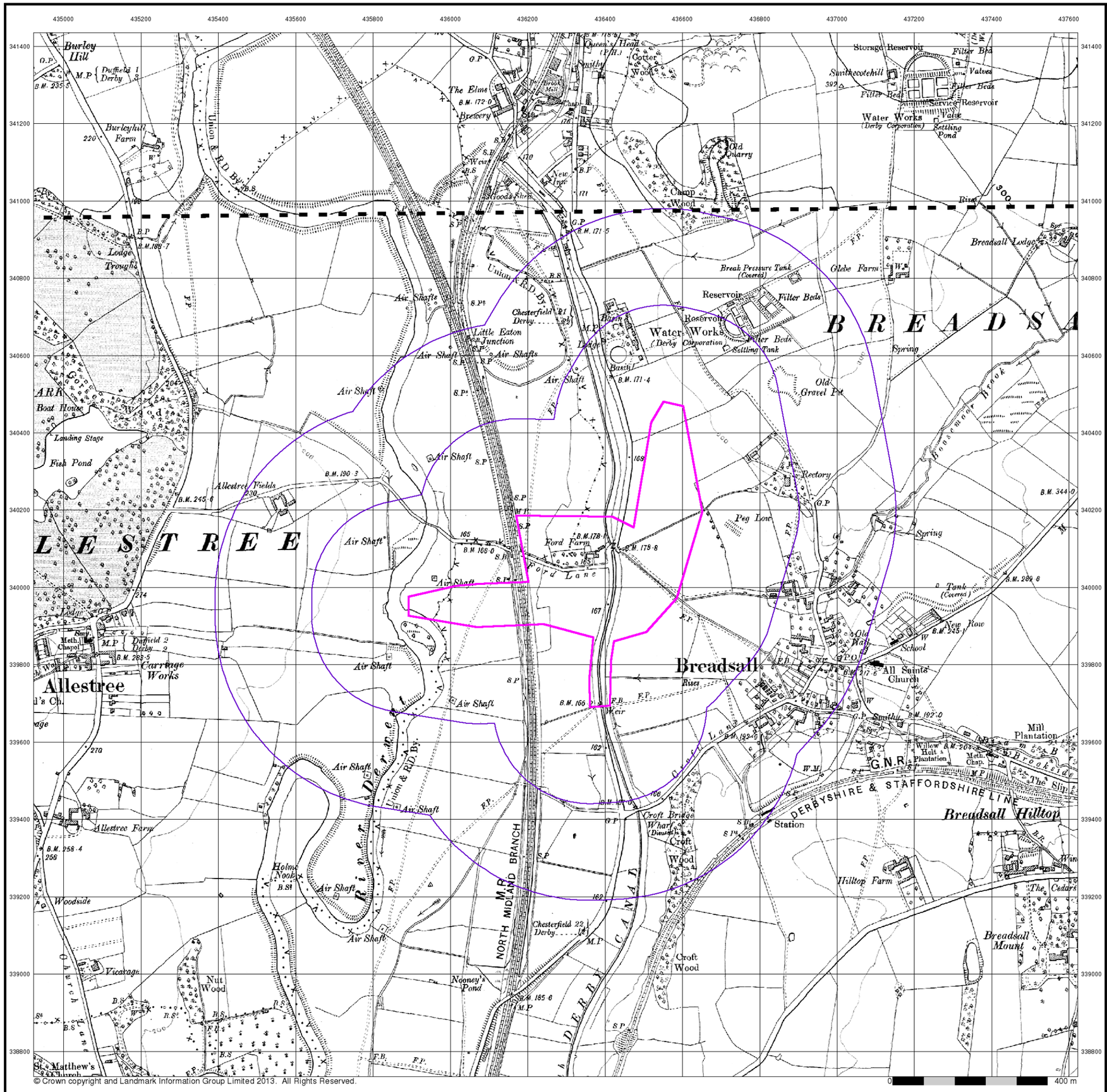
Order Details

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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
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Derbyshire

Published 1919 - 1921

Source map scale - 1:10,560

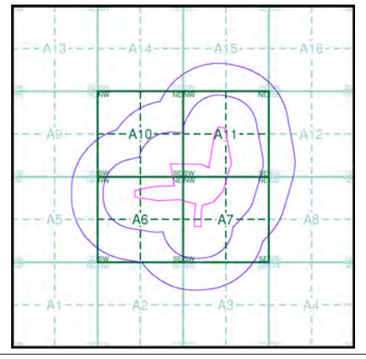
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

045SW
1921
1:10,560

050NW
1919
1:10,560

Historical Map - Slice A



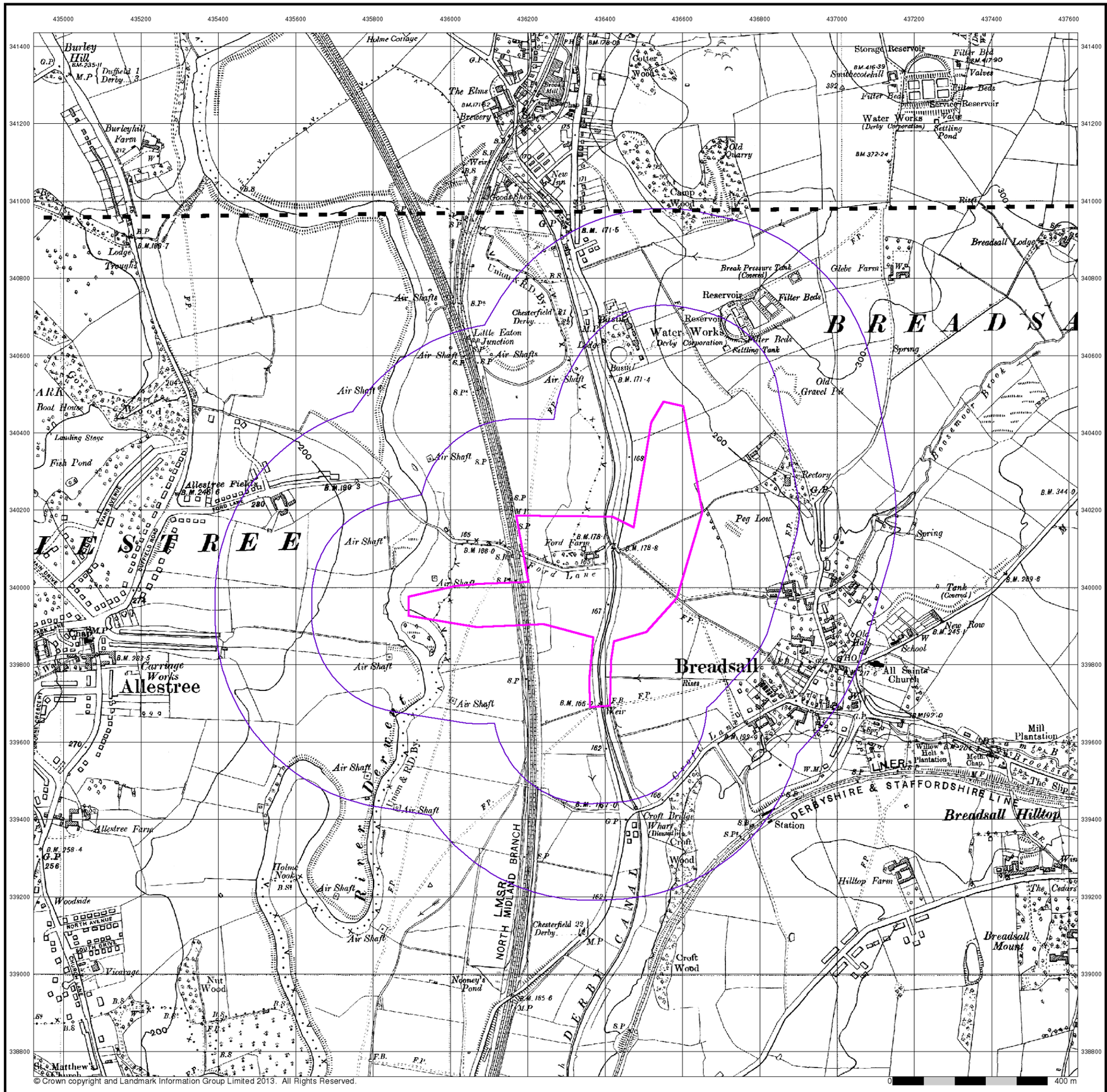
Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Derbyshire

Published 1938

Source map scale - 1:10,560

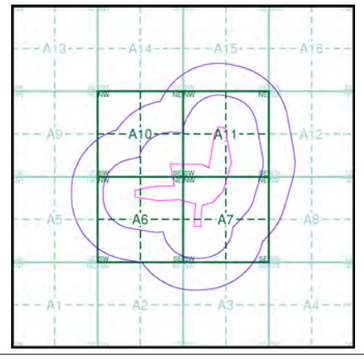
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

045SW
1938
1:10,560

050NW
1938
1:10,560

Historical Map - Slice A



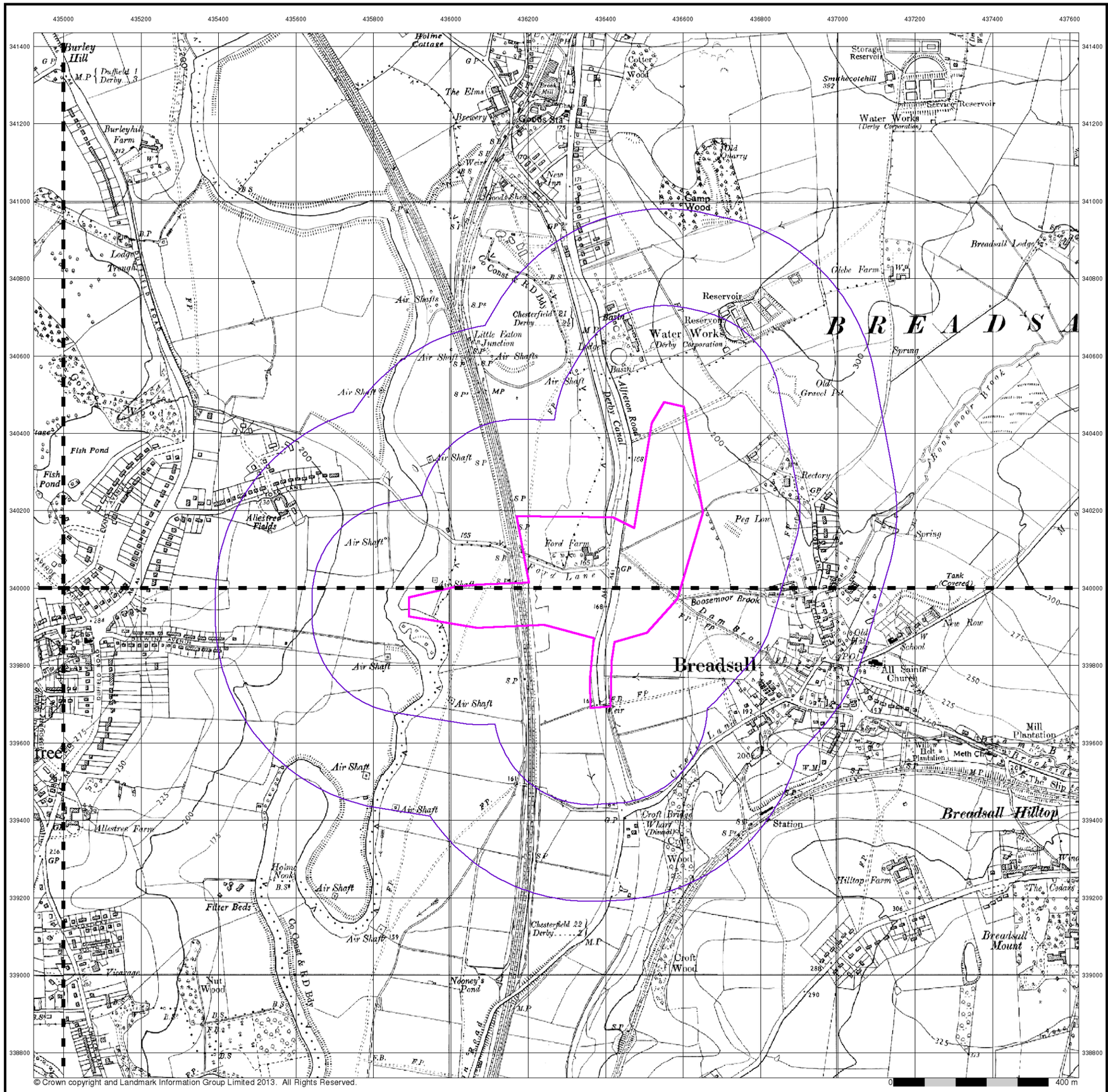
Order Details

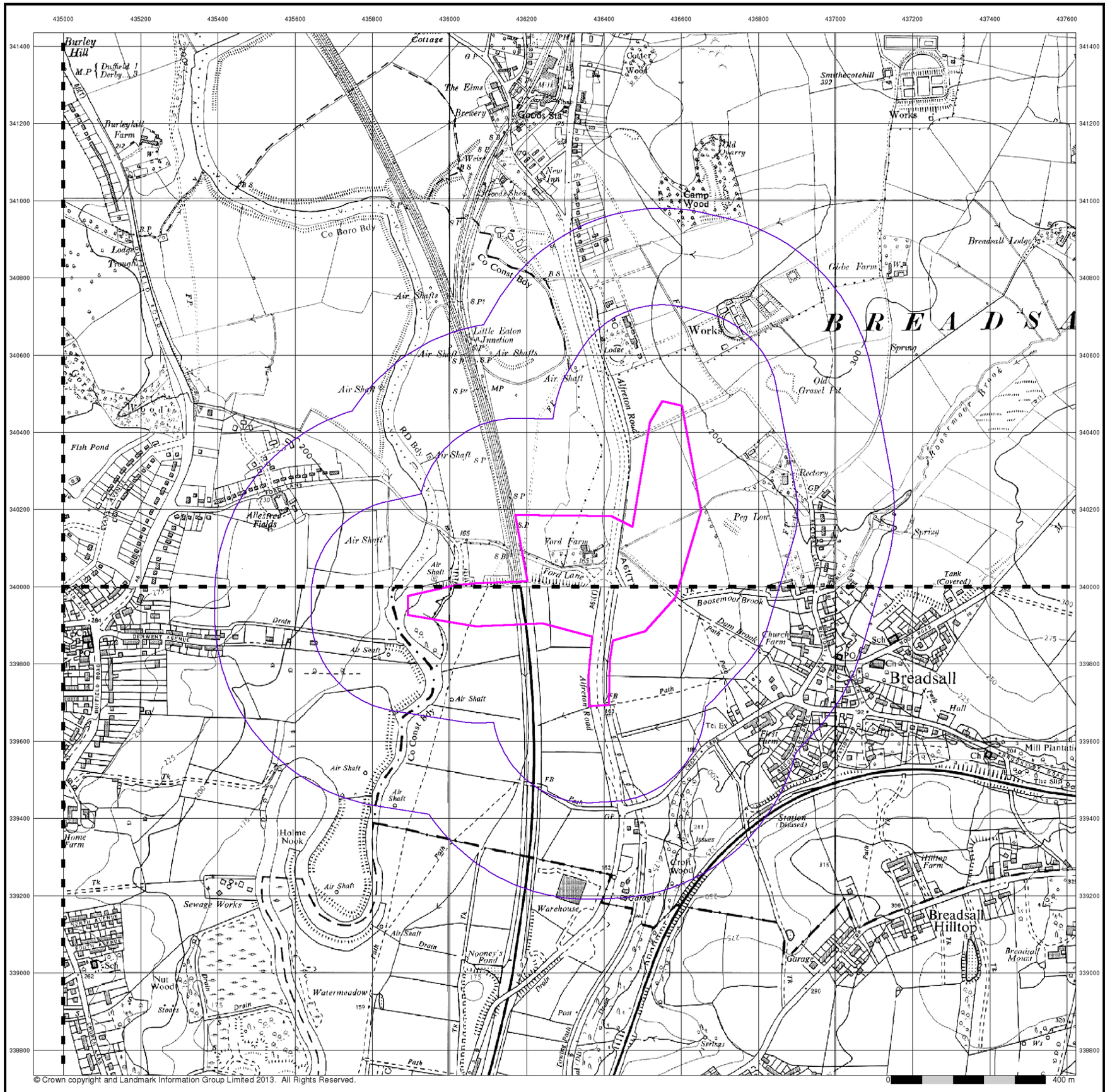
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk


Burley Hill
Burleyhill Farm
Holme Cottage
The Elms
Brewery
Goods Sta
Cotter Wood
Smithecotehill
Storage Reservoir
Service Reservoir
Water Works
(Derby Corporation)
Old Quarry
New Inn
Camp Wood
Breadsall Lodge
Glebe Farm
Reservoir
Reservoir
Water Works
(Derby Corporation)
Spring
Old Gravel Pit
Basin
Air Shafts
Chesterfield 21
Derby 22
Little Eaton Junction
Air Shaft
Derby Canal
Allestree Road
Fish Pond
Fish Pond
Allestree Fields
Ford Farm
Ford Lane
Rectory
Peg Low
Spring
Tank (Covered)
Boosemoor Brook
Dam Breast
Old Hall
New Row
School
Breadsall
All Saints Church
Mill Plantation
Willow Holt Plantation
Meth Ch
Brookside
The Slip
Breadsall Hilltop
Station
Croft Bridge
Wharf (Disused)
Croft Wood
Hilltop Farm
The Cedars
Breadsall Mount
Croft Wood
Allestree Farm
Holme Nook
Filter Beds
Air Shaft
Vicarage
Nut Wood
Ndoney's Pond
Co Const & R D Bdy
Chesterfield 22
Derby 21
Lodge
Trough
Duffield Road
Derby Road
Derby Road
Derby



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Ordnance Survey Plan

Published 1969

Source map scale - 1:10,000

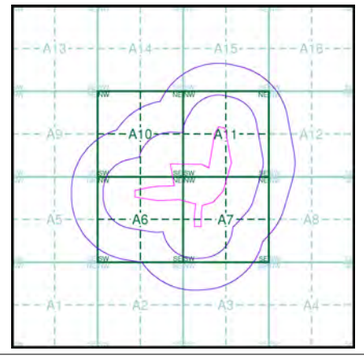
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SK34SE
1969
1:10,560

SK33NE
1969
1:10,560

Historical Map - Slice A



Order Details

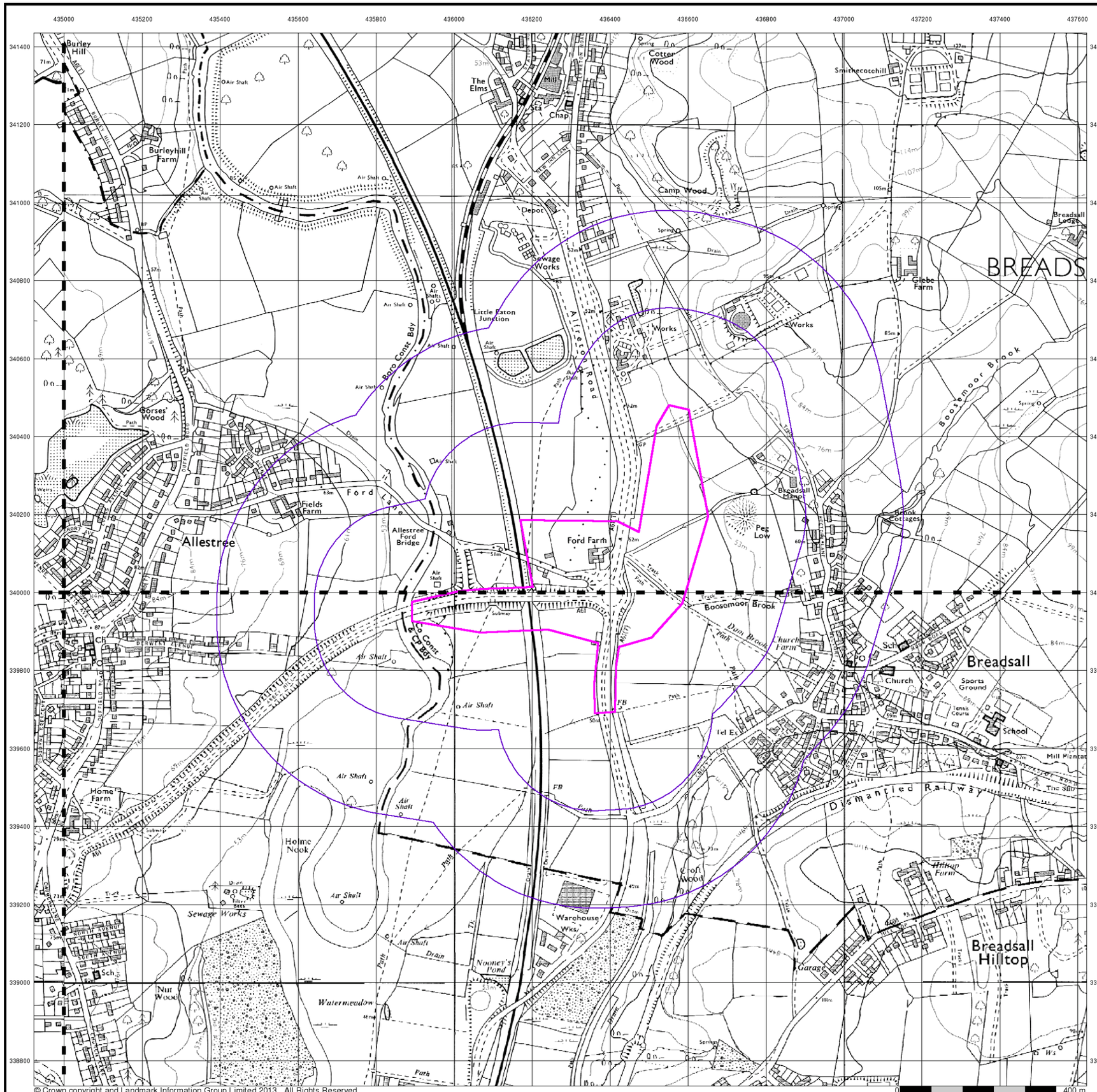
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

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Ordnance Survey Plan

Published 1972 - 1975

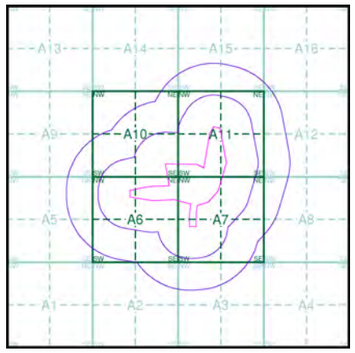
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SK34SW 1975 1:10,000	SK34SE 1974 1:10,000
SK33NW 1972 1:10,000	SK33NE 1975 1:10,000

Historical Map - Slice A



Order Details

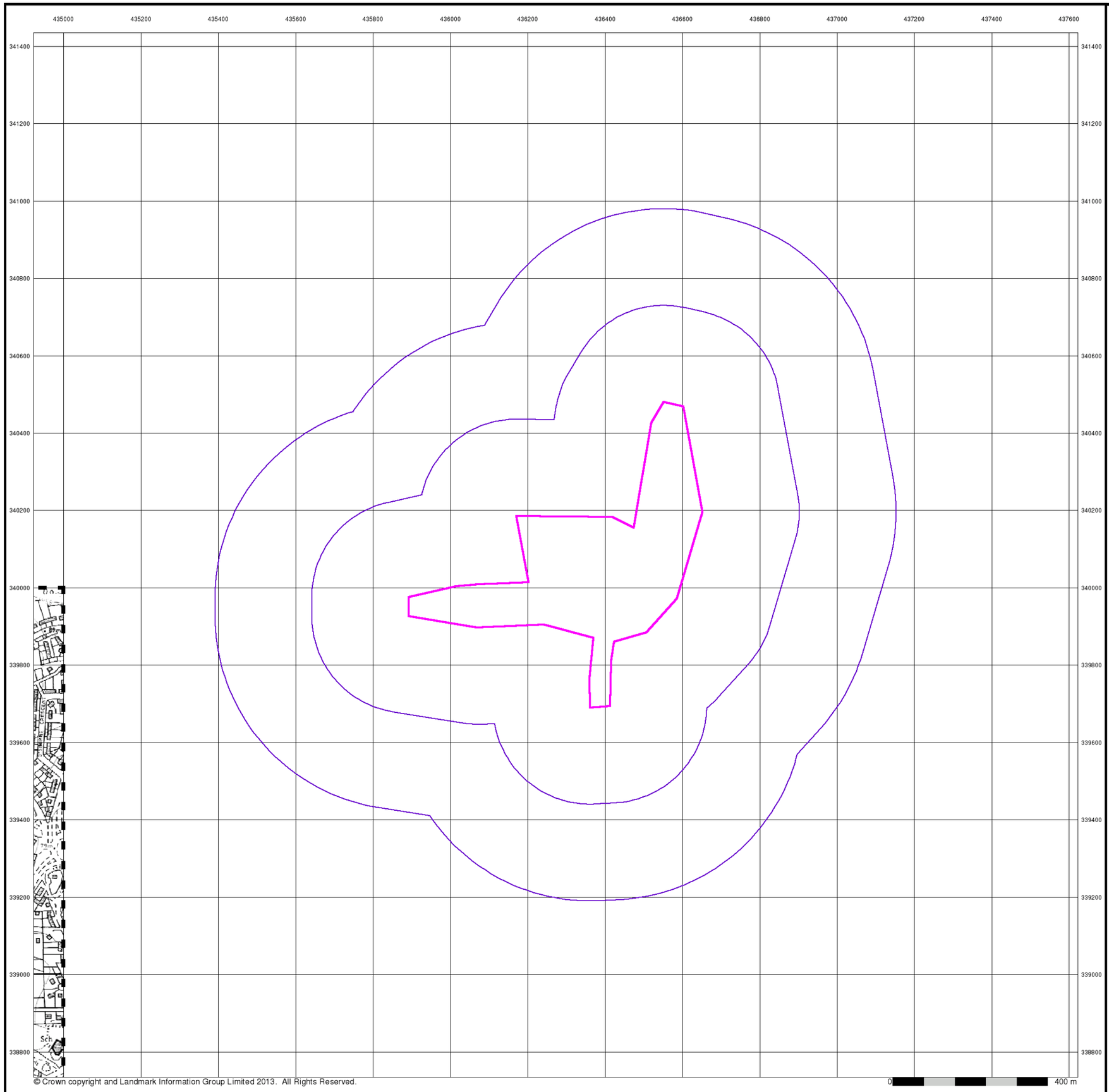
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

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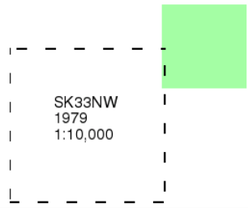
Ordnance Survey Plan

Published 1979

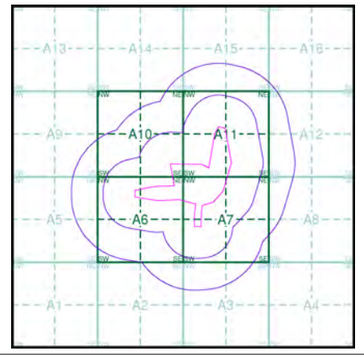
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

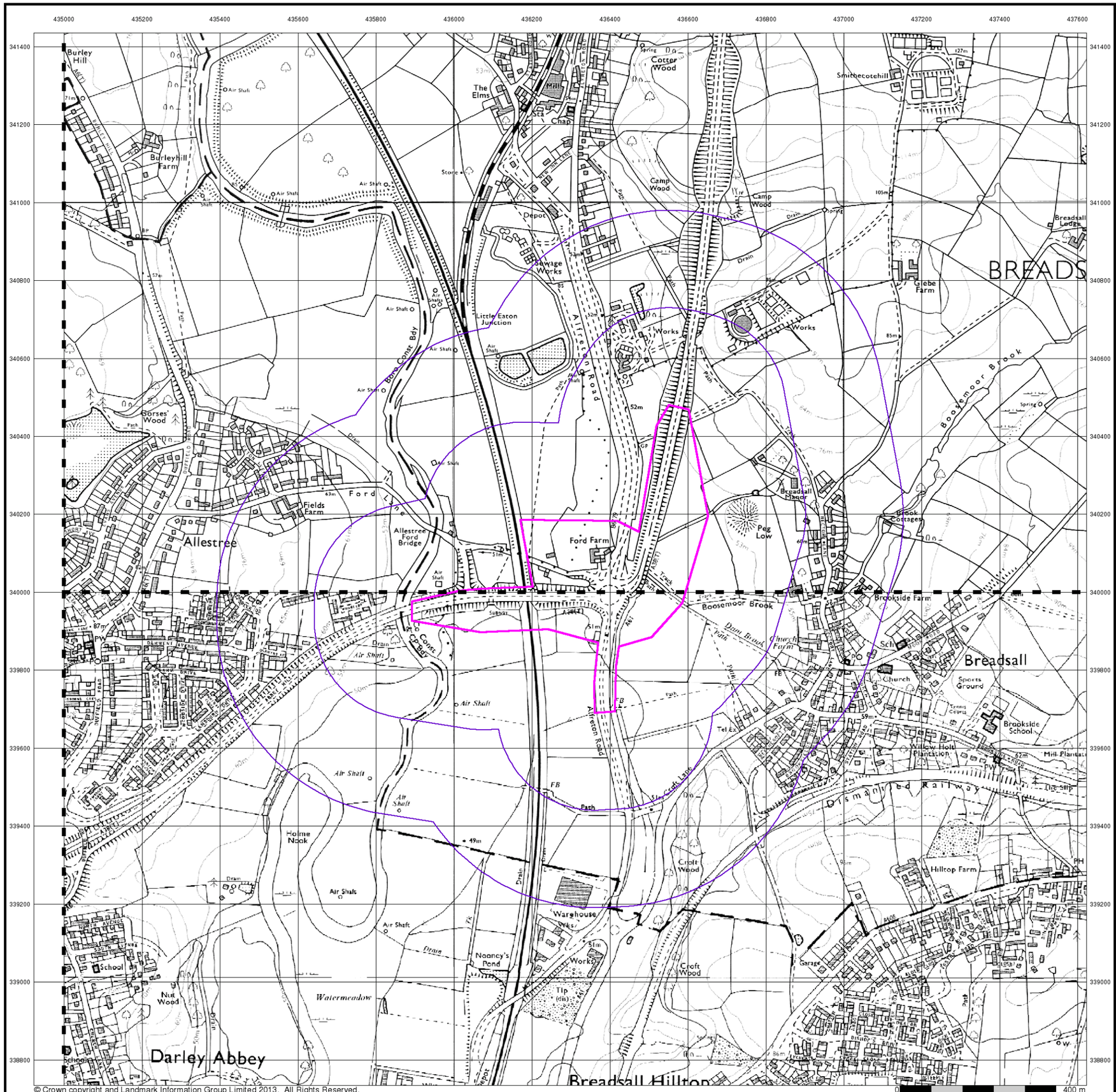
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Search Buffer (m):	500

Site Details

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Ordnance Survey Plan

Published 1981 - 1987

Source map scale - 1:10,000

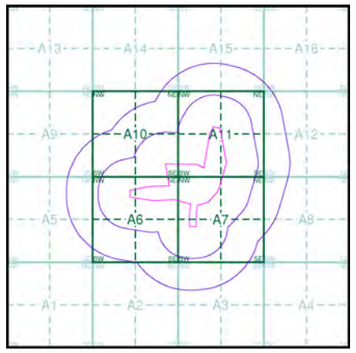
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SK34SE
1981
1:10,000

SK33NE
1987
1:10,000

Historical Map - Slice A



Order Details

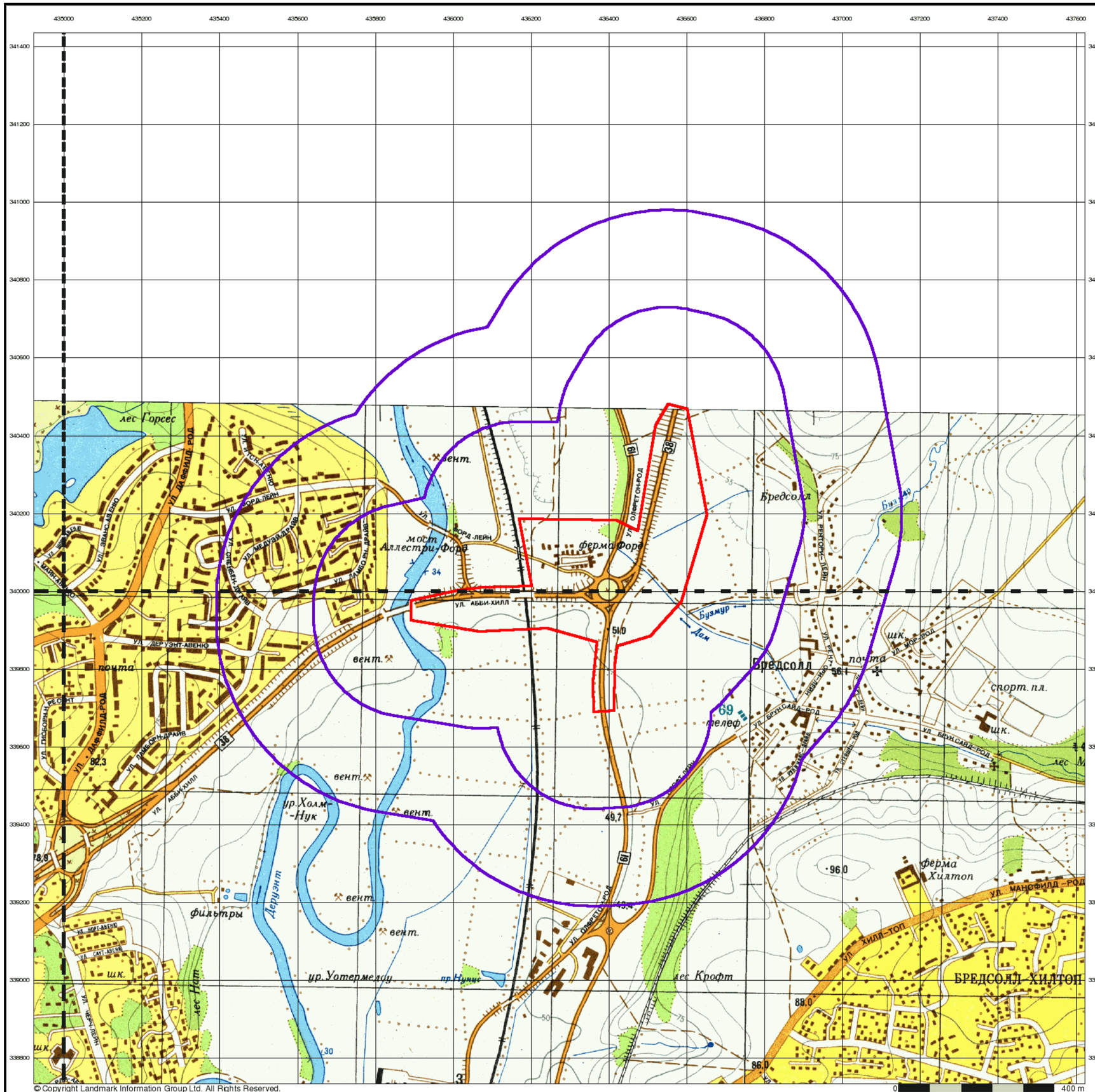
Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

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435000
435200
435400
435600
435800
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436400
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437200
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437600
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339600
339400
339200
339000
338800
лес Горсес
Хвент
мост Аллестри-Форд
ферма Форд
Бредсолл
Бредсолл-Хилтон
ферма Хилтон
почта
вент.
фильтры
ур.Холм-Нук
ур.Уотермелоу
лес Крофт
пр.Нунис
Деруэнт
Буземур
Дам
спорт.пл.
шк.
ул. АББИ-ХИЛЛ
ул. ДЕРУЭНТ-АВЕНЮ
ул. ДЕФФИЛД-РОД
ул. ДЕРБИ-РОД
ул. БРИДСАЙД-РОД
ул. ХИЛЛ-ТОП
ул. МАНСФИЛД-РОД
ул. ФОРД-ЛЕЙН
ул. ОЛДФИЛД-ЛЕЙН
ул. ЧЕРЧ-ЛЕЙН
ул. ЛИЧФОРД-ДРАЙВ
ул. ПОВОРНИС-ДРАЙВ
ул. ЛИНКОЛН-ДРАЙВ
ул. ЛИЧФОРД



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Ordnance Survey Plan

Published 1992

Source map scale - 1:10,000

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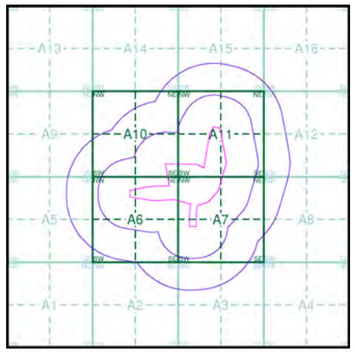
Map Name(s) and Date(s)

SK34SW
1992
1:10,000

SK33NW
1992
1:10,000

SK33NE
1992
1:10,000

Historical Map - Slice A



Order Details

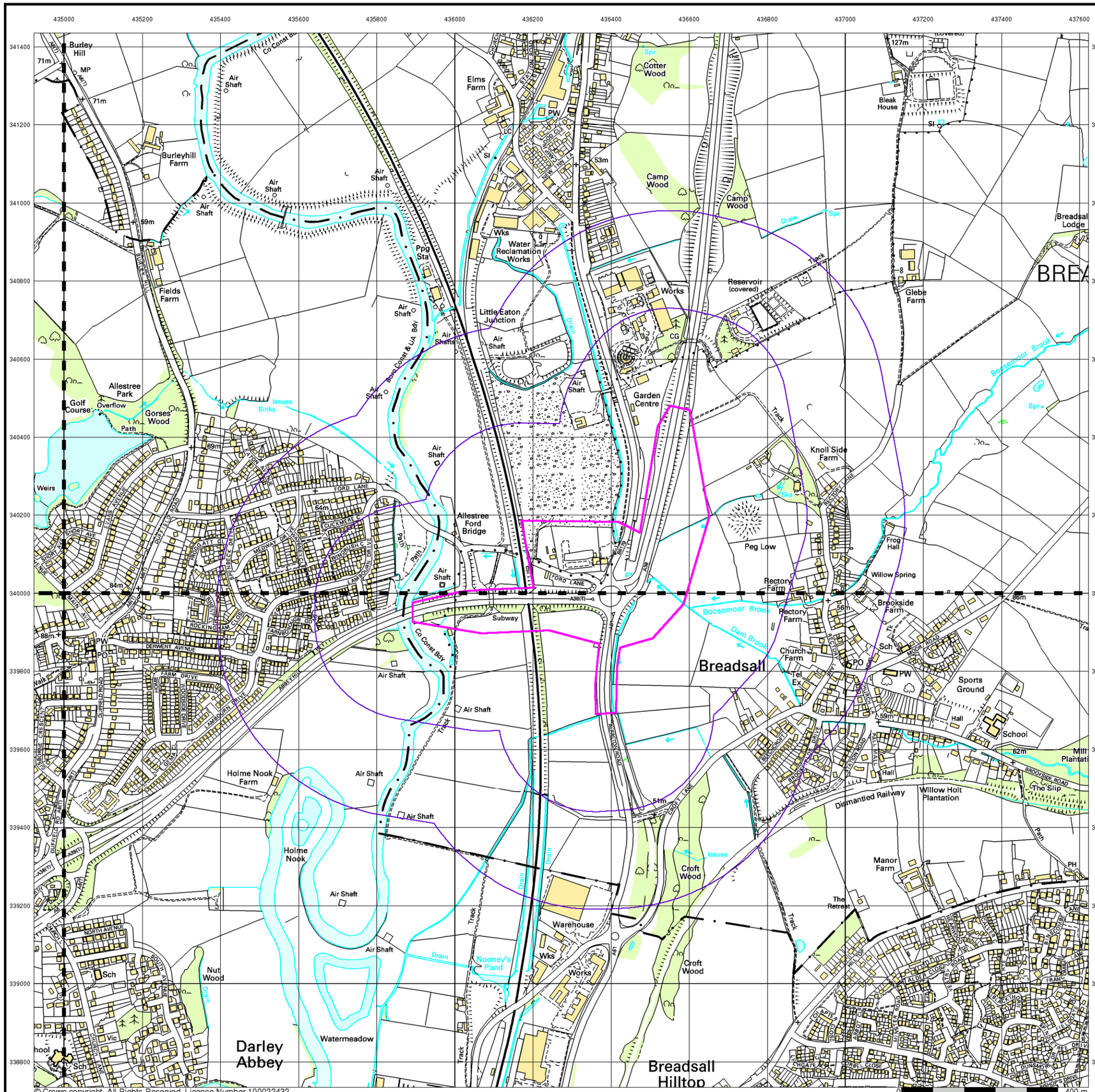
Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

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10k Raster Mapping

Published 2000

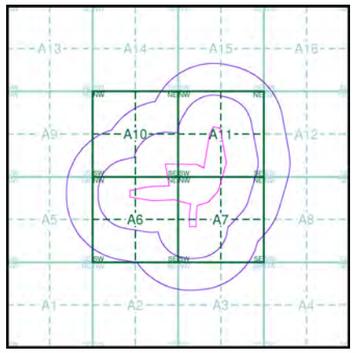
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SK34SW 2000 1:10,000	SK34SE 2000 1:10,000
SK33NW 2000 1:10,000	SK33NE 2000 1:10,000

Historical Map - Slice A



Order Details

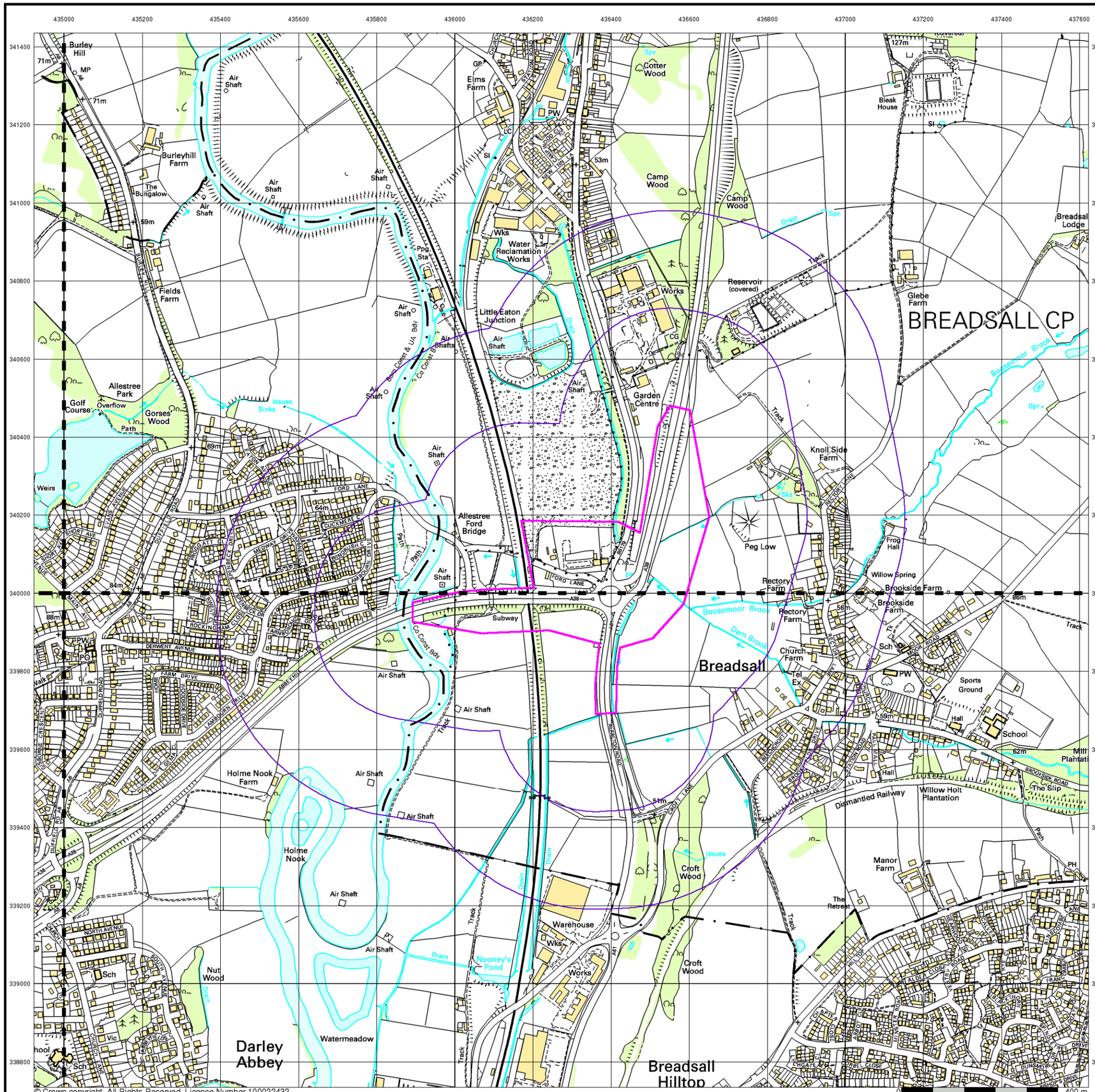
Order Number:	60386902_1_1
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National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

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10k Raster Mapping

Published 2006

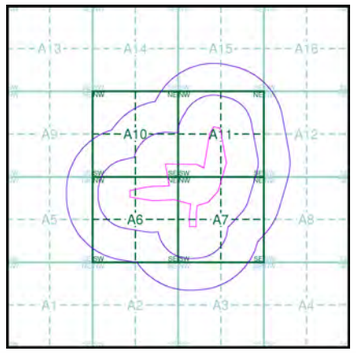
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SK34SW 2006 1:10,000	SK34SE 2006 1:10,000
SK33NW 2006 1:10,000	SK33NE 2006 1:10,000

Historical Map - Slice A



Order Details

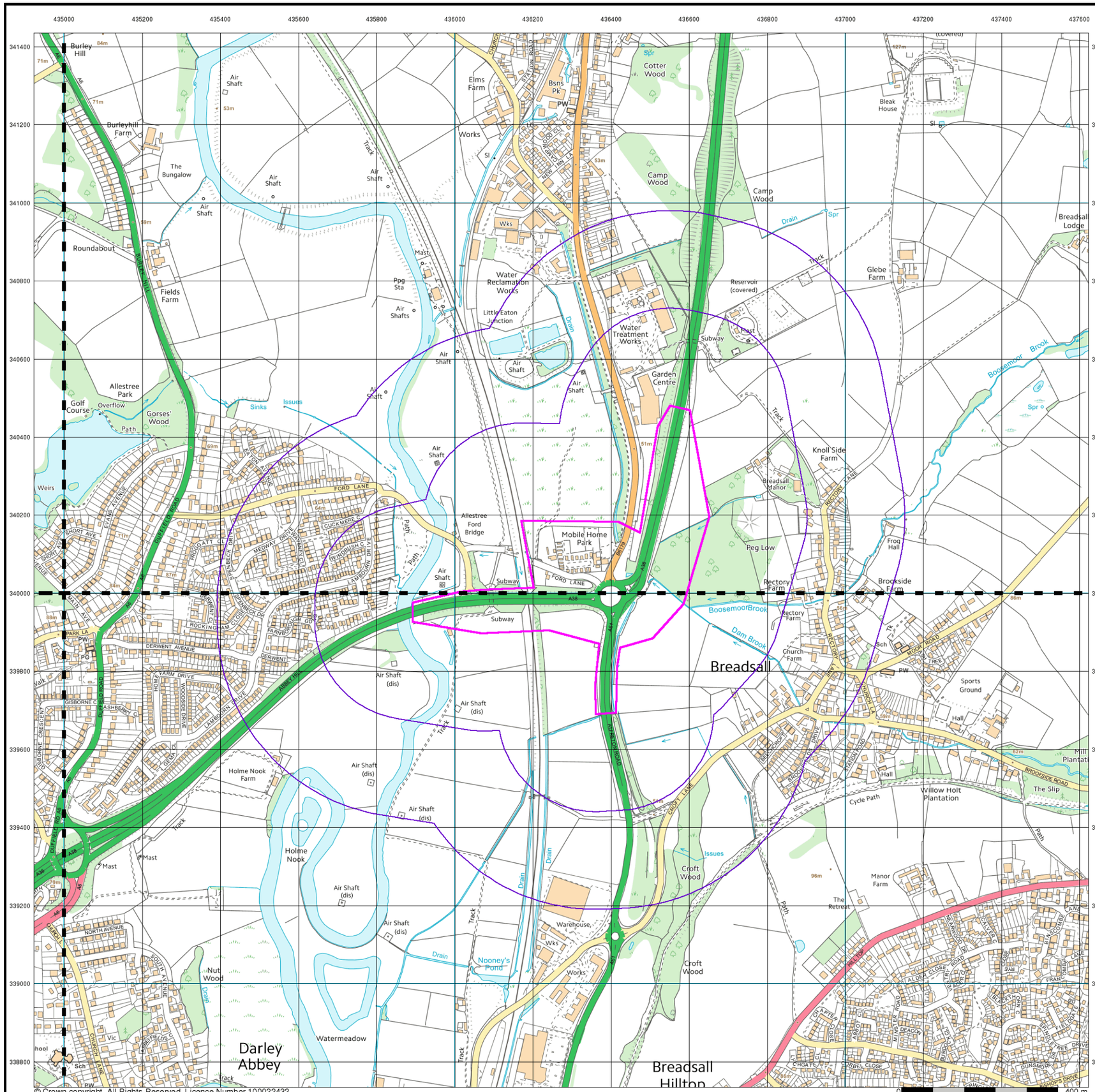
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

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VectorMap Local

Published 2014

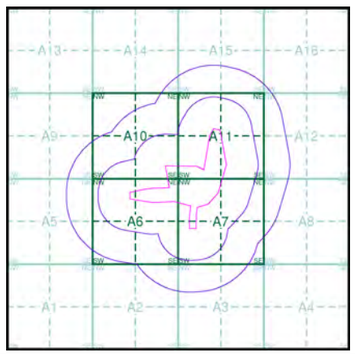
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

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SK33NW 2014 Variable	SK33NE 2014 Variable

Historical Map - Slice A



Order Details

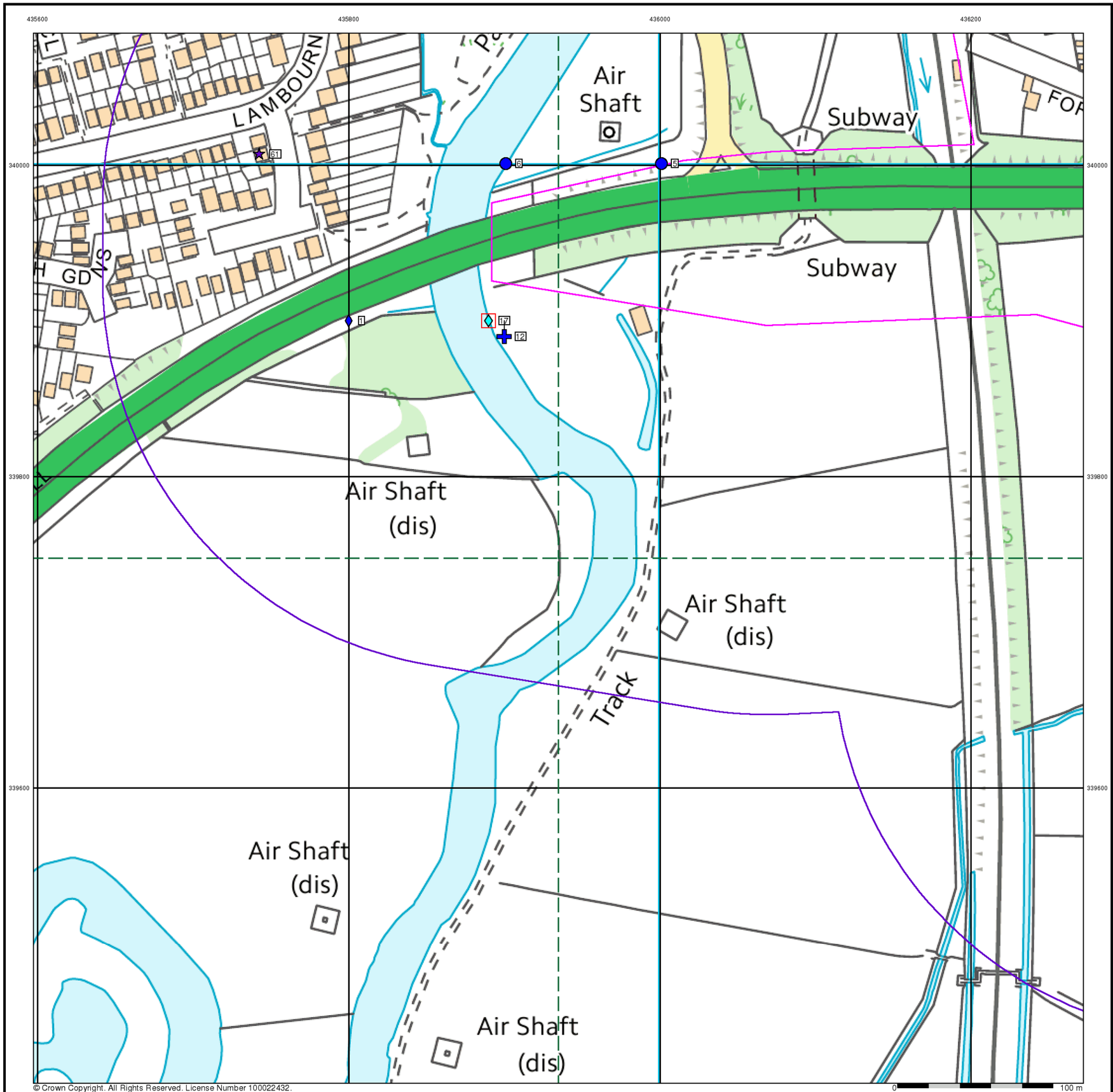
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

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Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

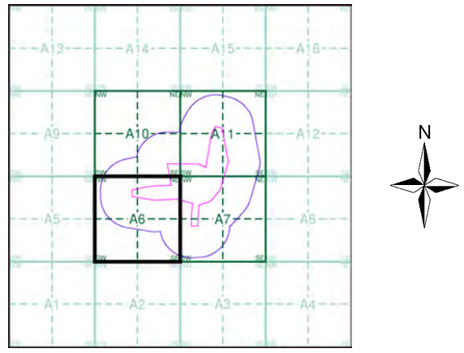
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A6



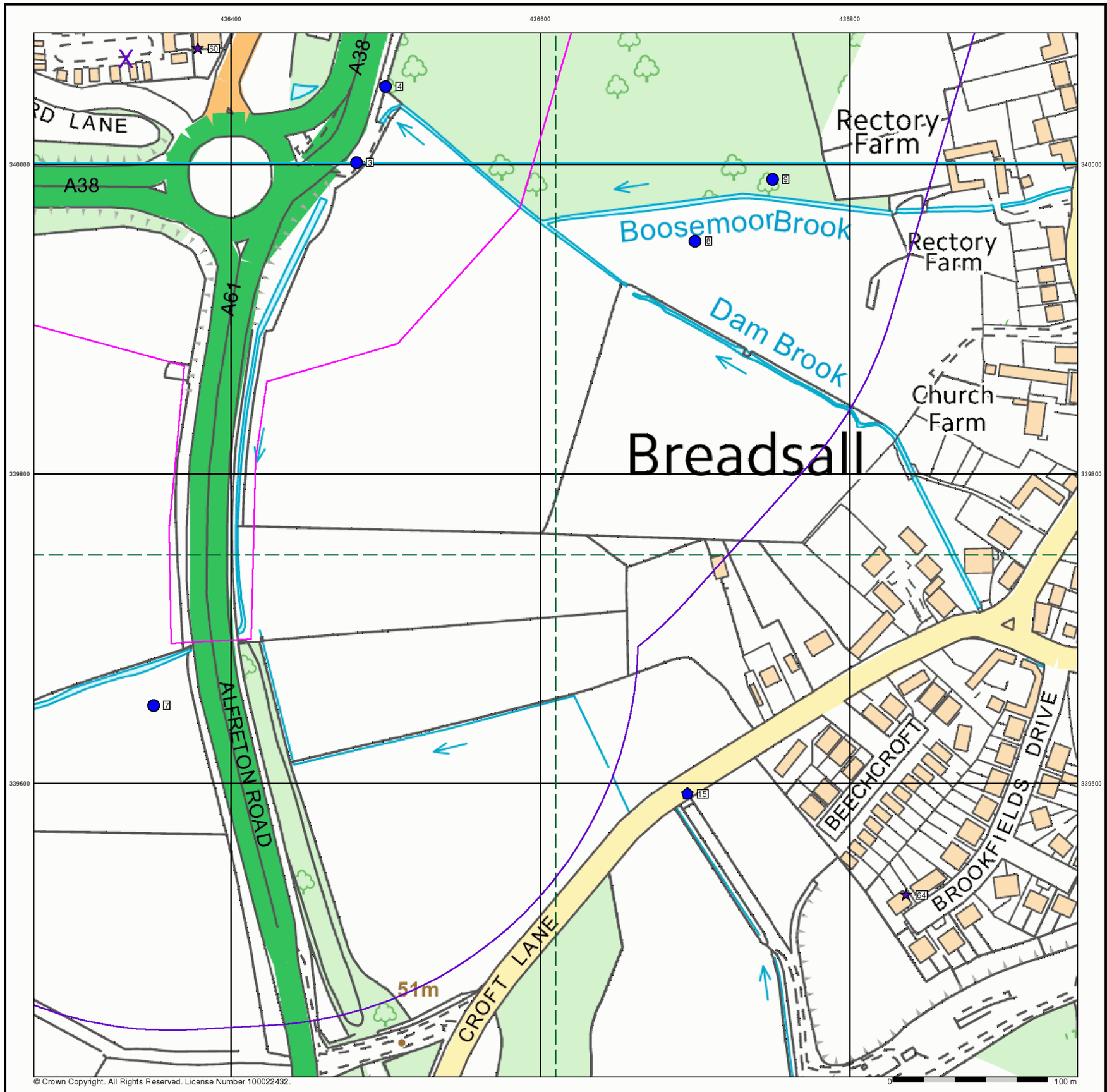
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55

Site Details

Site at, Derby, City of Derby

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

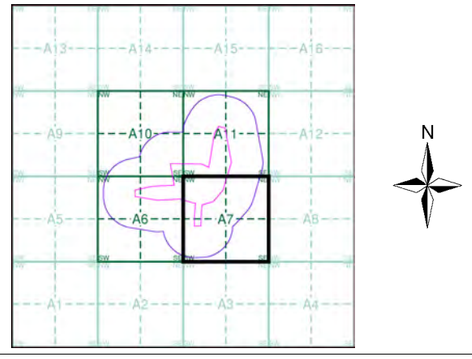
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A7



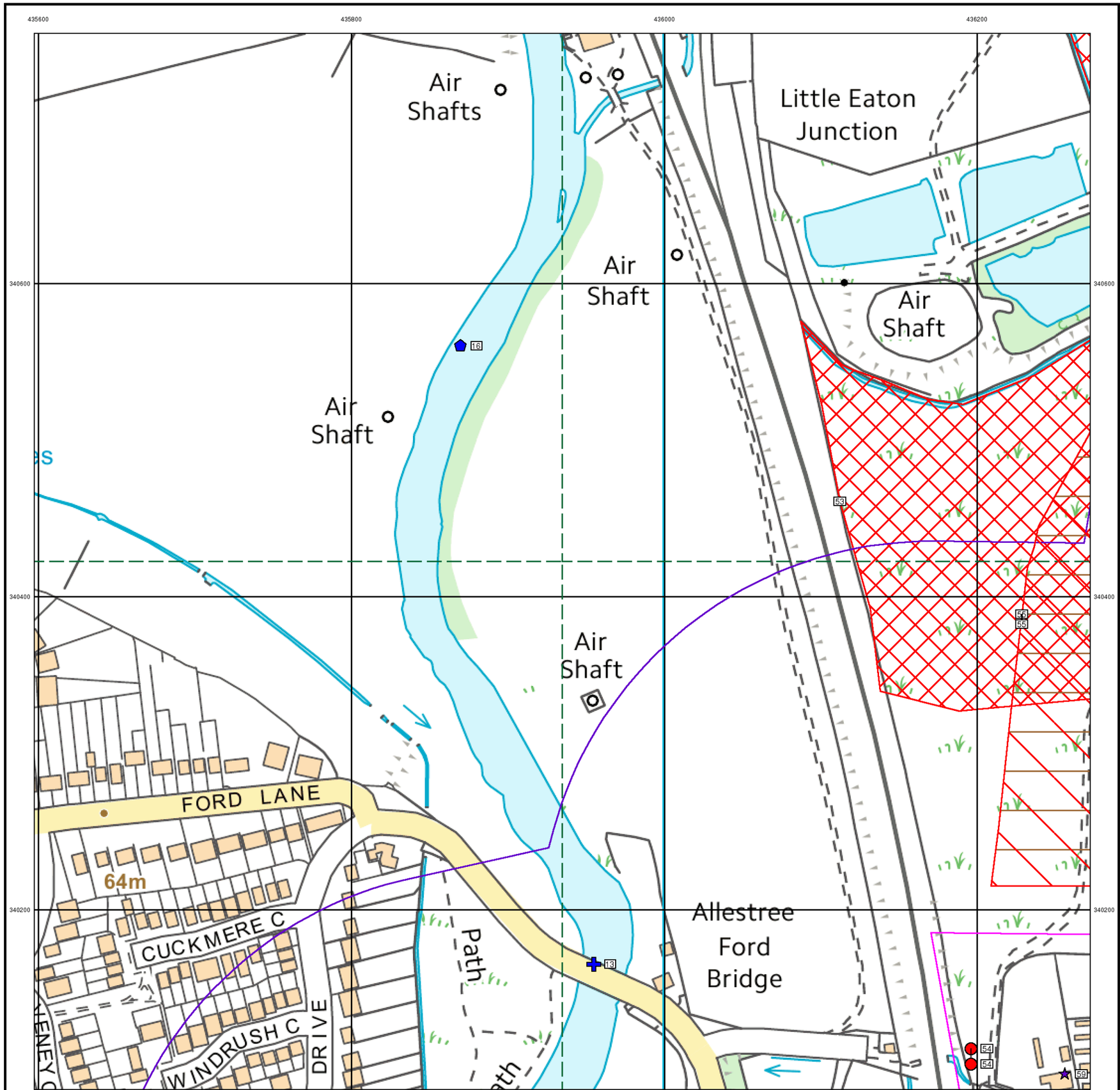
Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55

Site Details

Site at, Derby, City of Derby

Landmark Information Group
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General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)
Contaminated Land Register Entry or Notice
Discharge Consent
Enforcement or Prohibition Notice
Integrated Pollution Control
Integrated Pollution Prevention Control
Local Authority Integrated Pollution Prevention and Control
Local Authority Pollution Prevention and Control
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution Relating to Authorised Processes
Prosecution Relating to Controlled Waters
Registered Radioactive Substance
River Network or Water Feature
River Quality Sampling Point
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

Geological

BGS Recorded Mineral Site

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry

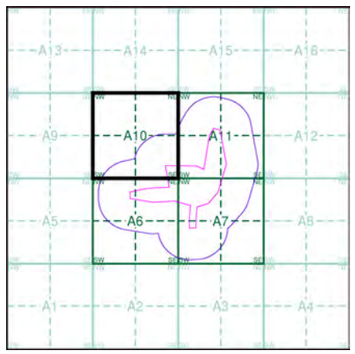
Waste

BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
EA Historic Landfill (Buffered Point)
EA Historic Landfill (Polygon)
Integrated Pollution Control Registered Waste Site
Licensed Waste Management Facility (Landfill Boundary)
Licensed Waste Management Facility (Location)
Local Authority Recorded Landfill Site (Location)
Local Authority Recorded Landfill Site
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point Buffered to 100m)
Registered Landfill Site (Point Buffered to 250m)
Registered Waste Transfer Site (Location)
Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site

Hazardous Substances

COMAH Site
Explosive Site
NIHHS Site
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A10



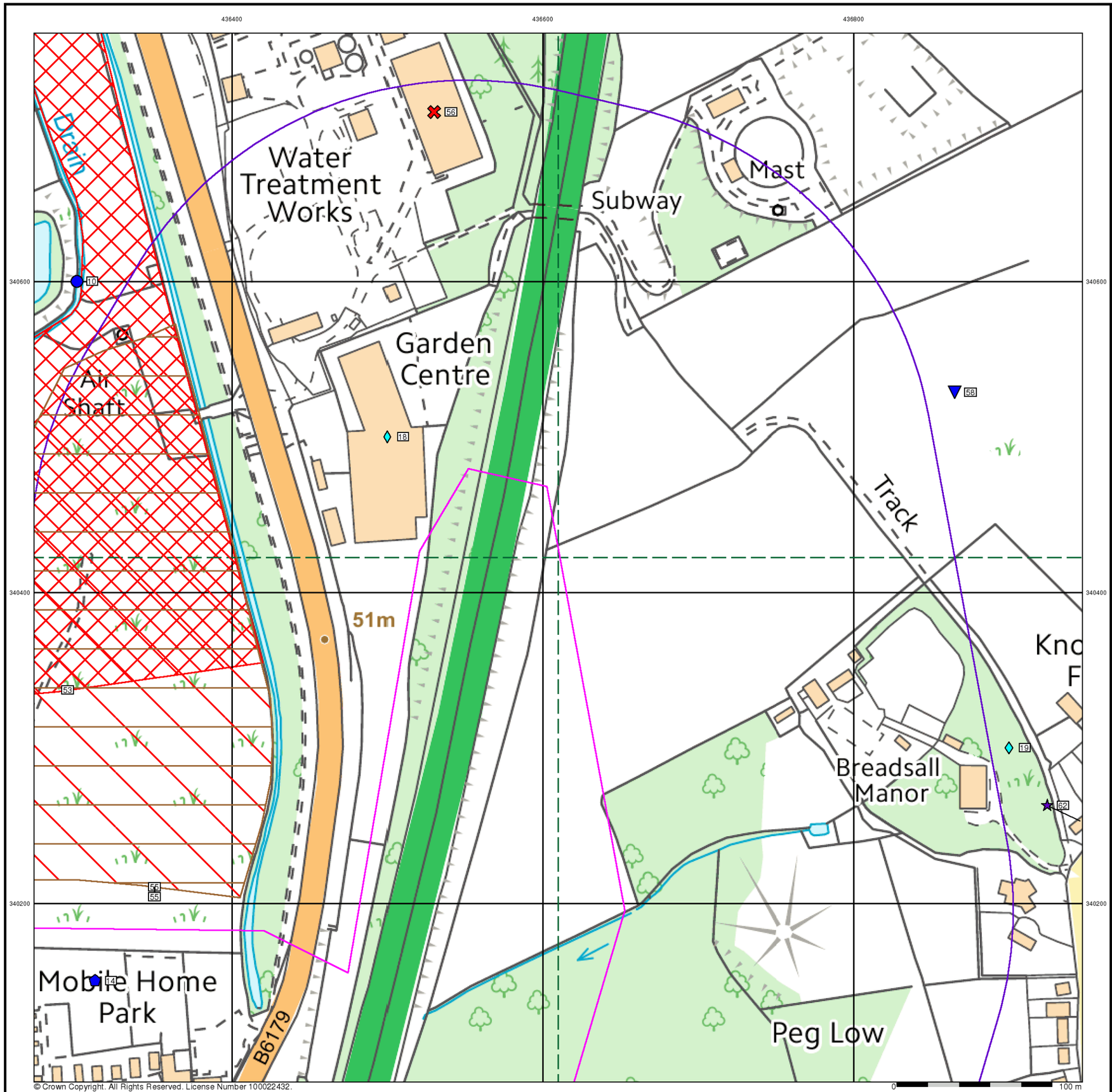
Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55

Site Details

Site at, Derby, City of Derby

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General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)
Contaminated Land Register Entry or Notice
Discharge Consent
Enforcement or Prohibition Notice
Integrated Pollution Control
Integrated Pollution Prevention Control
Local Authority Integrated Pollution Prevention and Control
Local Authority Pollution Prevention and Control
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution Relating to Authorised Processes
Prosecution Relating to Controlled Waters
Registered Radioactive Substance
River Network or Water Feature
River Quality Sampling Point
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

Waste

BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
EA Historic Landfill (Buffered Point)
EA Historic Landfill (Polygon)
Integrated Pollution Control Registered Waste Site
Licensed Waste Management Facility (Landfill Boundary)
Licensed Waste Management Facility (Location)
Local Authority Recorded Landfill Site (Location)
Local Authority Recorded Landfill Site
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point Buffered to 100m)
Registered Landfill Site (Point Buffered to 250m)
Registered Waste Transfer Site (Location)
Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site

Geological

BGS Recorded Mineral Site

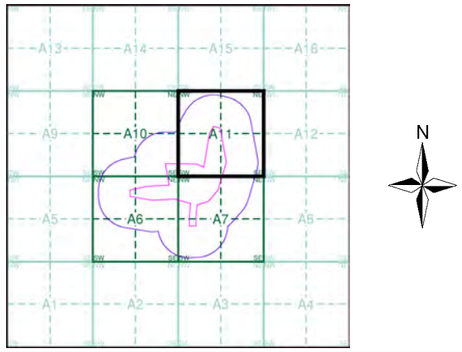
Hazardous Substances

COMAH Site
Explosive Site
NIHHS Site

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment A11



Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

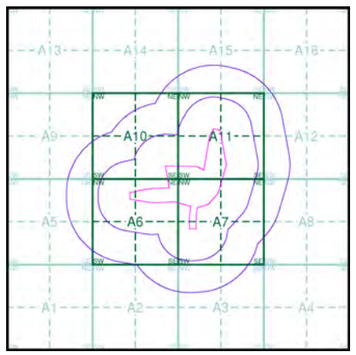
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice A



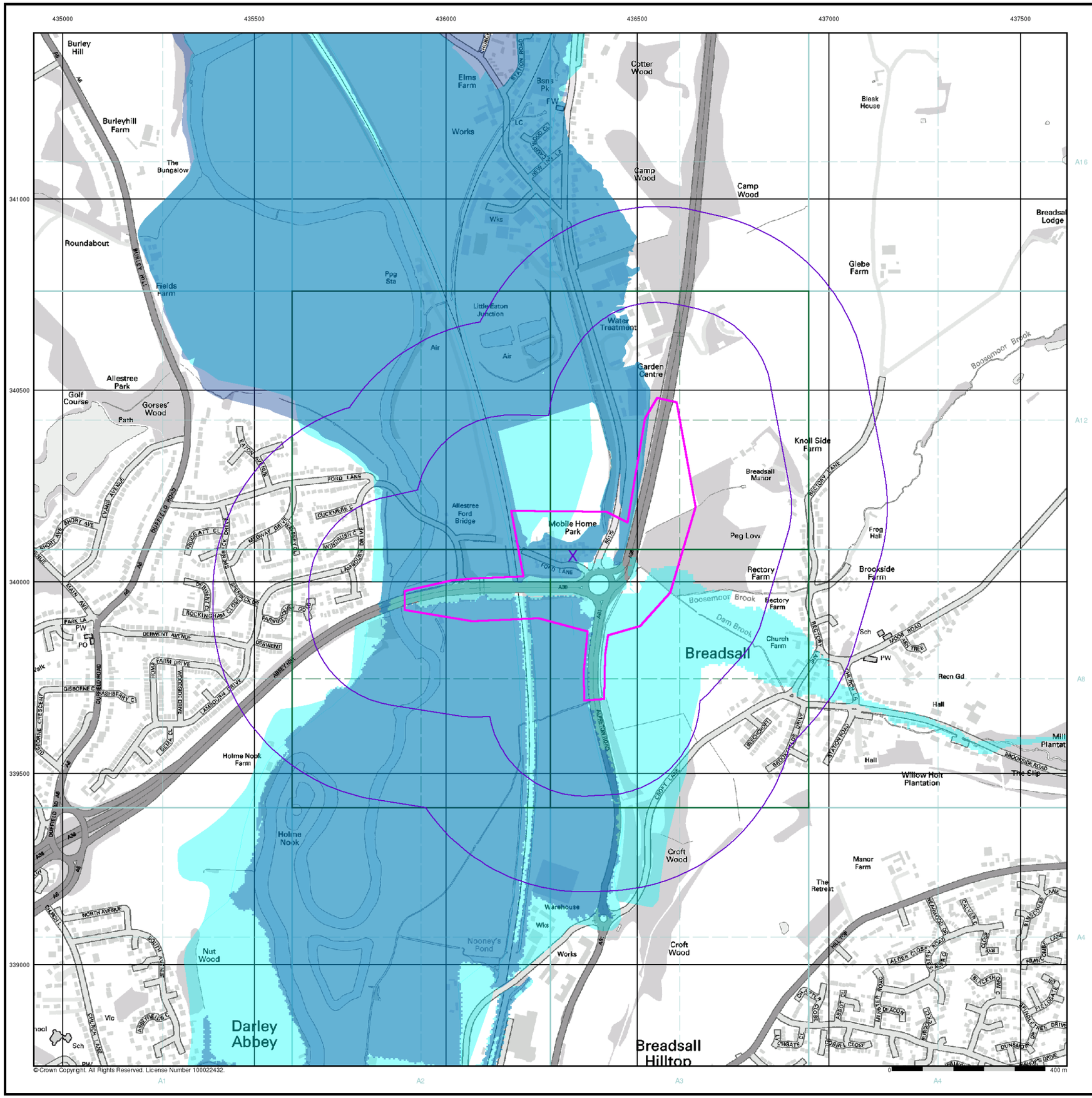
Order Details

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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

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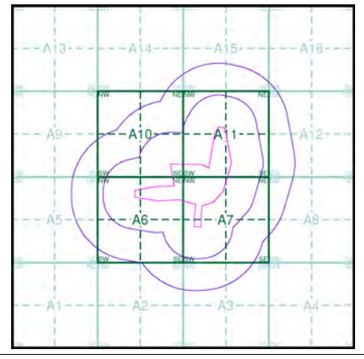
General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



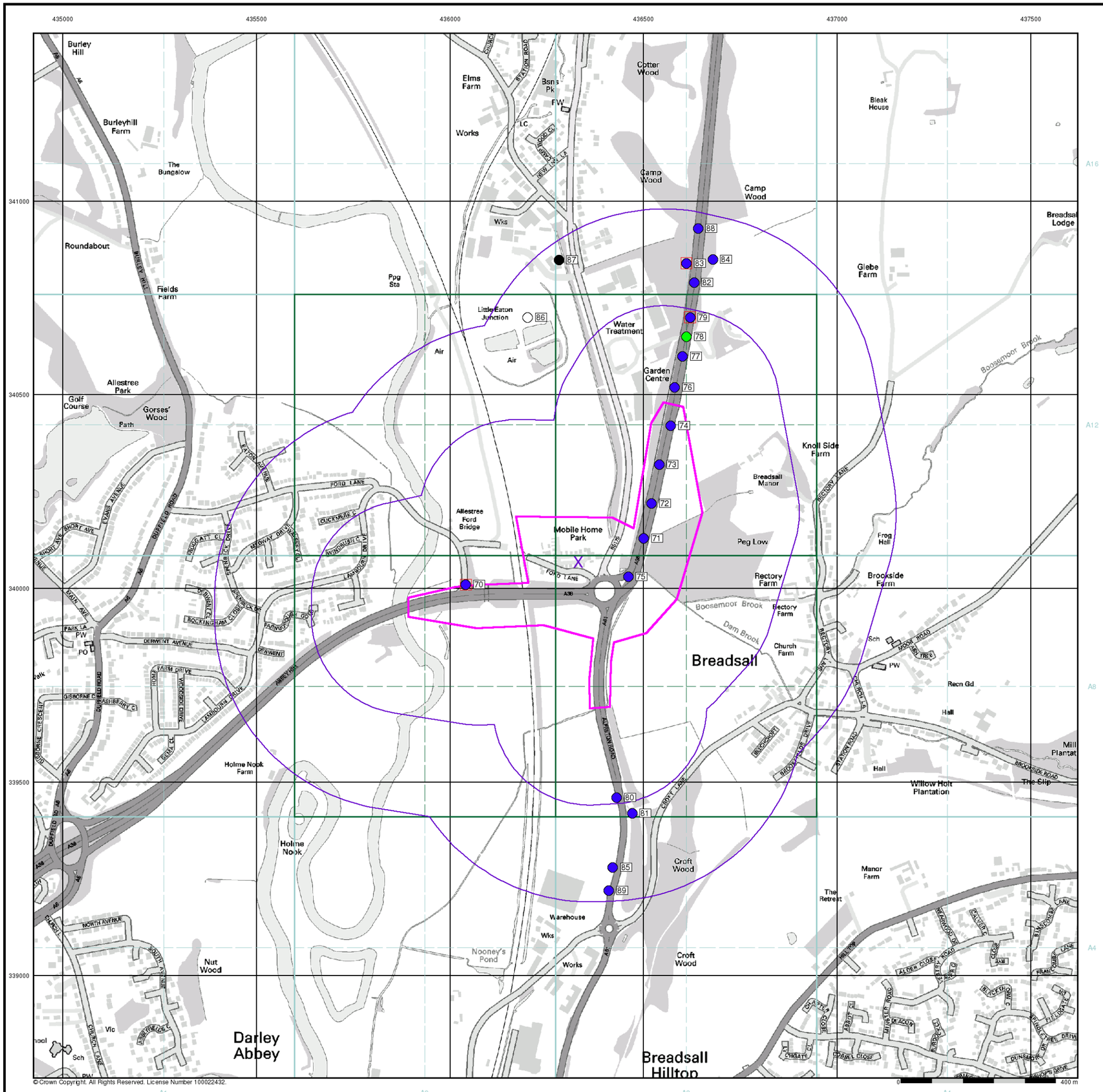
Order Details

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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

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A1 A2 A3 A4

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- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

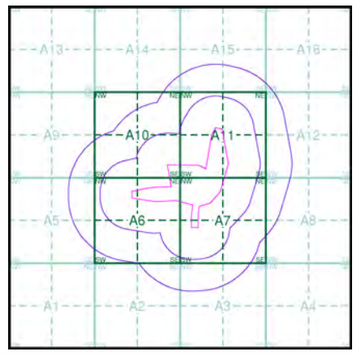
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

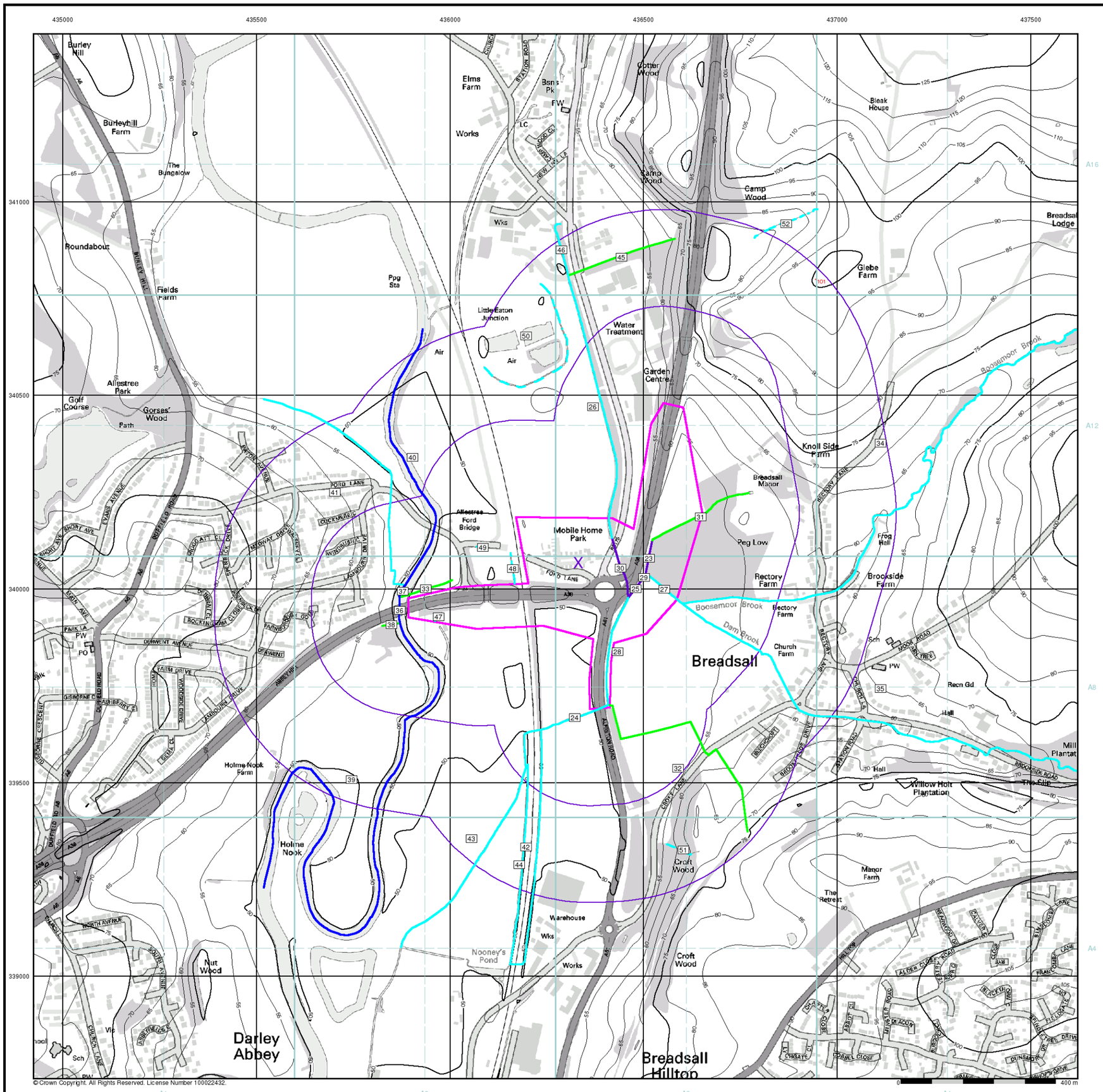
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

Detailed River Network Data

- Primary River
- Secondary River
- Tertiary River
- Canal
- Canal Tunnel
- Undefined River
- Lake/Reservoir
- Offline Drainage Feature
- Extended Culvert (greater than 50m)
- Underground River (inferred)
- Underground River (local knowledge)
- Downstream of High Water Mark
- Downstream of Seaward Extension
- Not assigned River feature

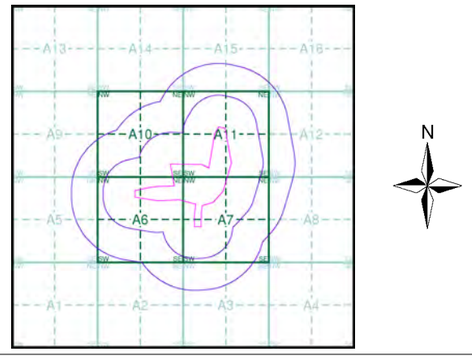
Contours (height in metres)

Standard Contour 105 100 95 — MLW Mean Low Water

Master Contour — MHW Mean High Water

Spot Height *167.3

EA/NRW Detailed River Network Map - Slice A



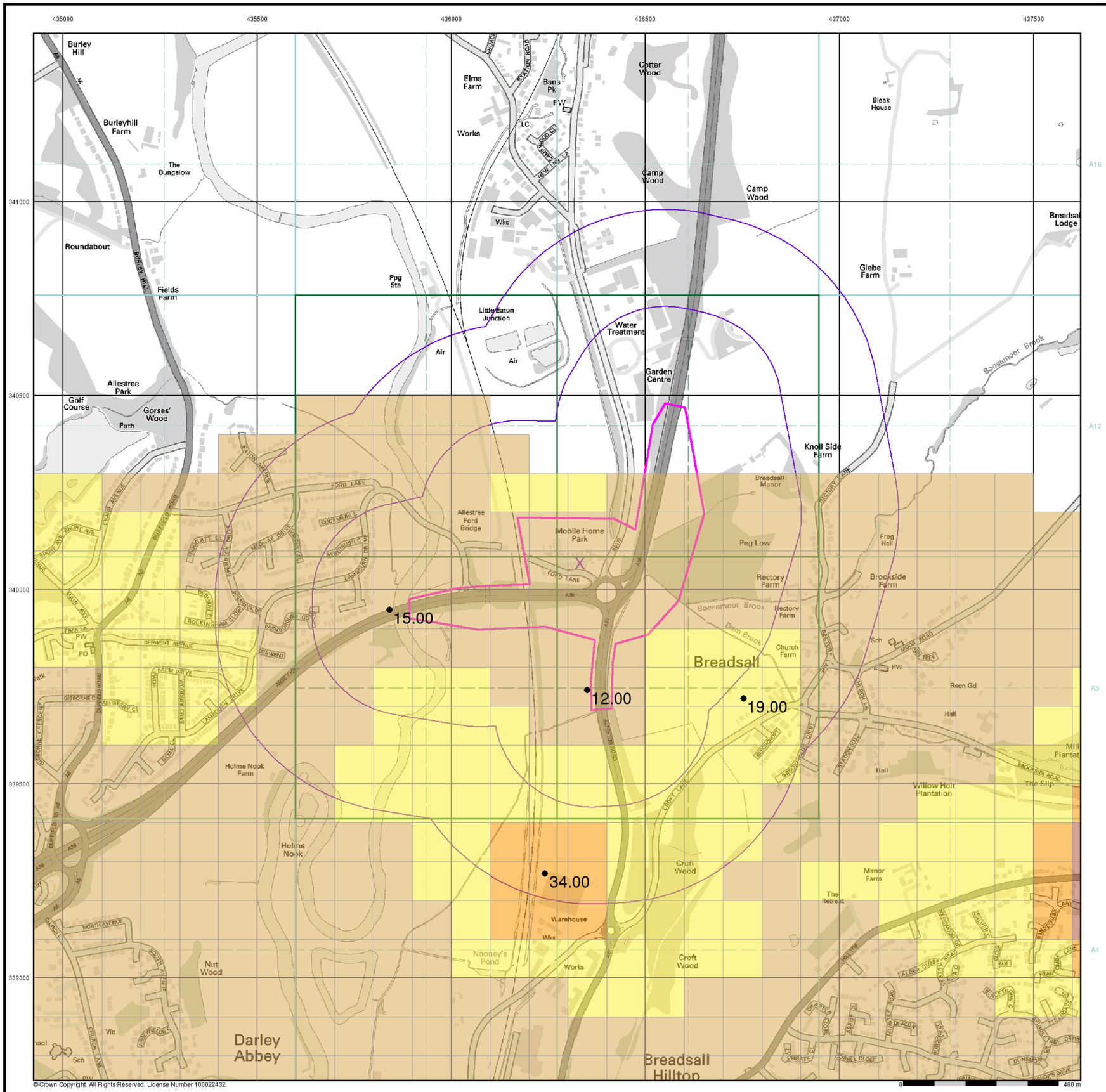
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Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	500

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General

Specified Site | Specified Buffer(s) | X Bearing Reference Point

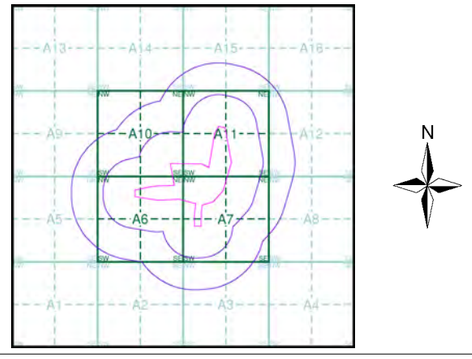
Urban Soil Chemistry Arsenic

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Urban Soil Chemistry Arsenic - Slice A



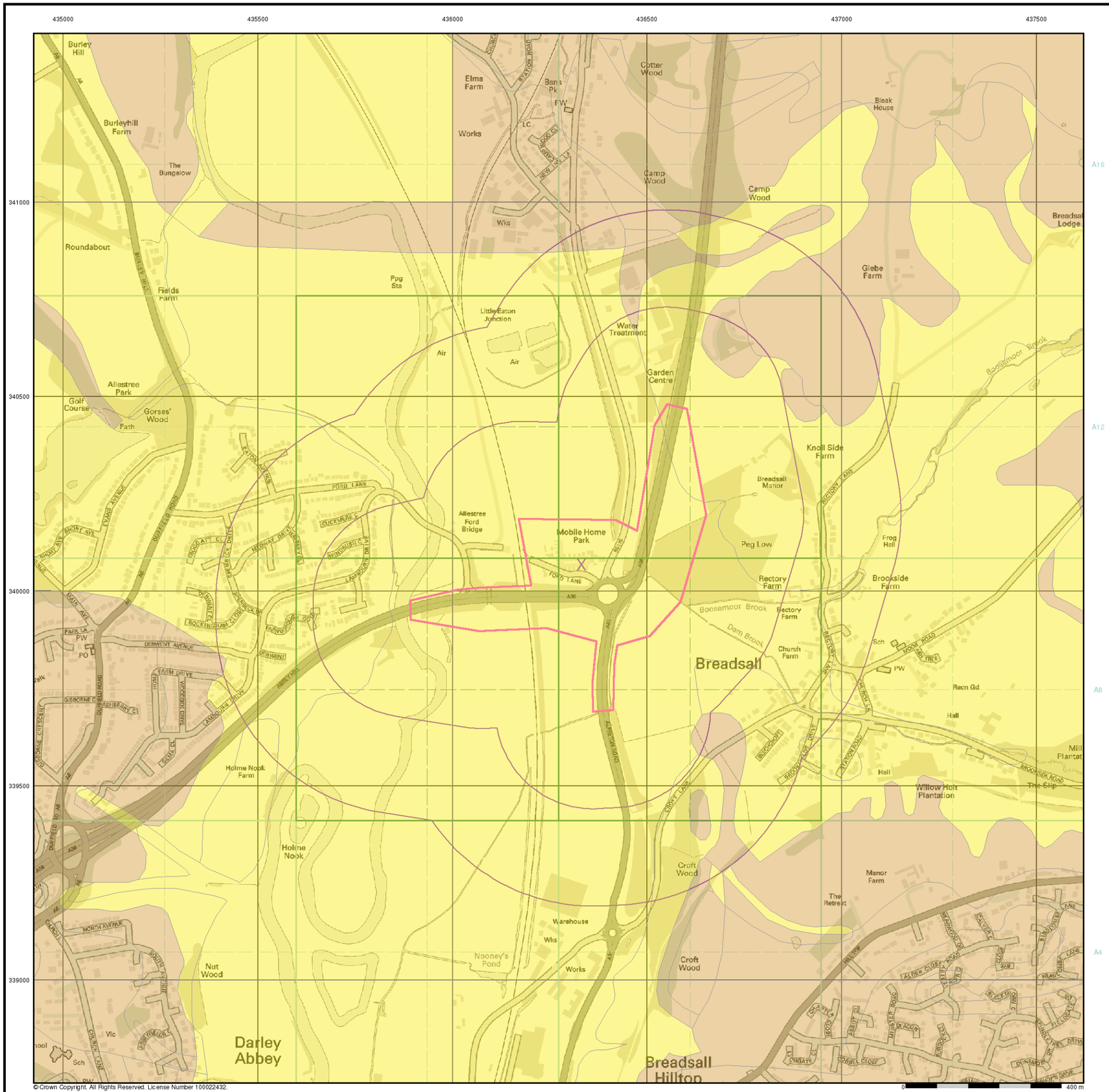
Order Details

Order Details:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search buffer (m):	500

Site Details

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General

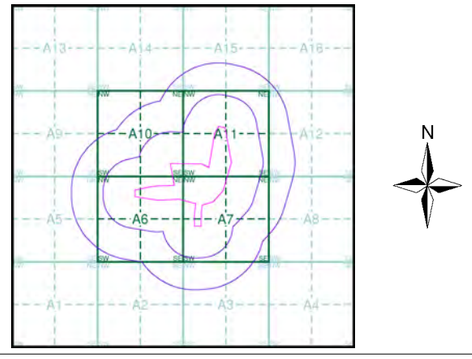
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



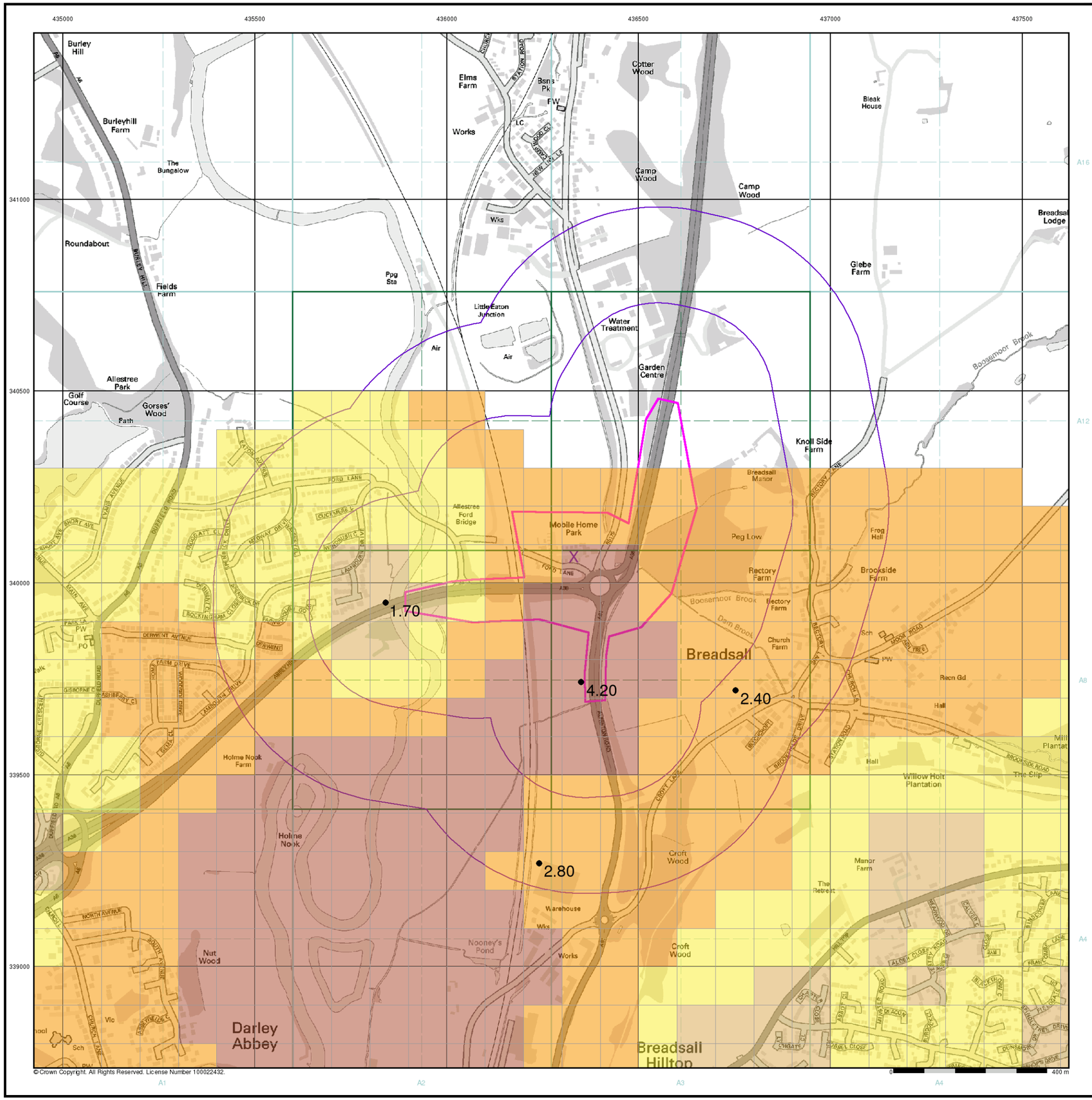
Order Details

Order Details:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search buffer (m):	500

Site Details

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General

Specified Site | Specified Buffer(s) | Bearing Reference Point

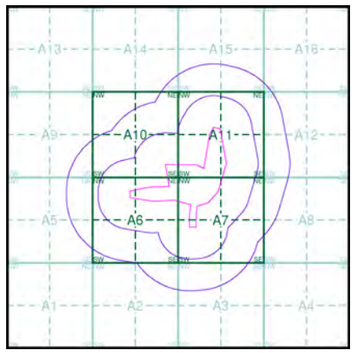
Urban Soil Chemistry Cadmium

BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Urban Soil Chemistry Cadmium - Slice A



Order Details

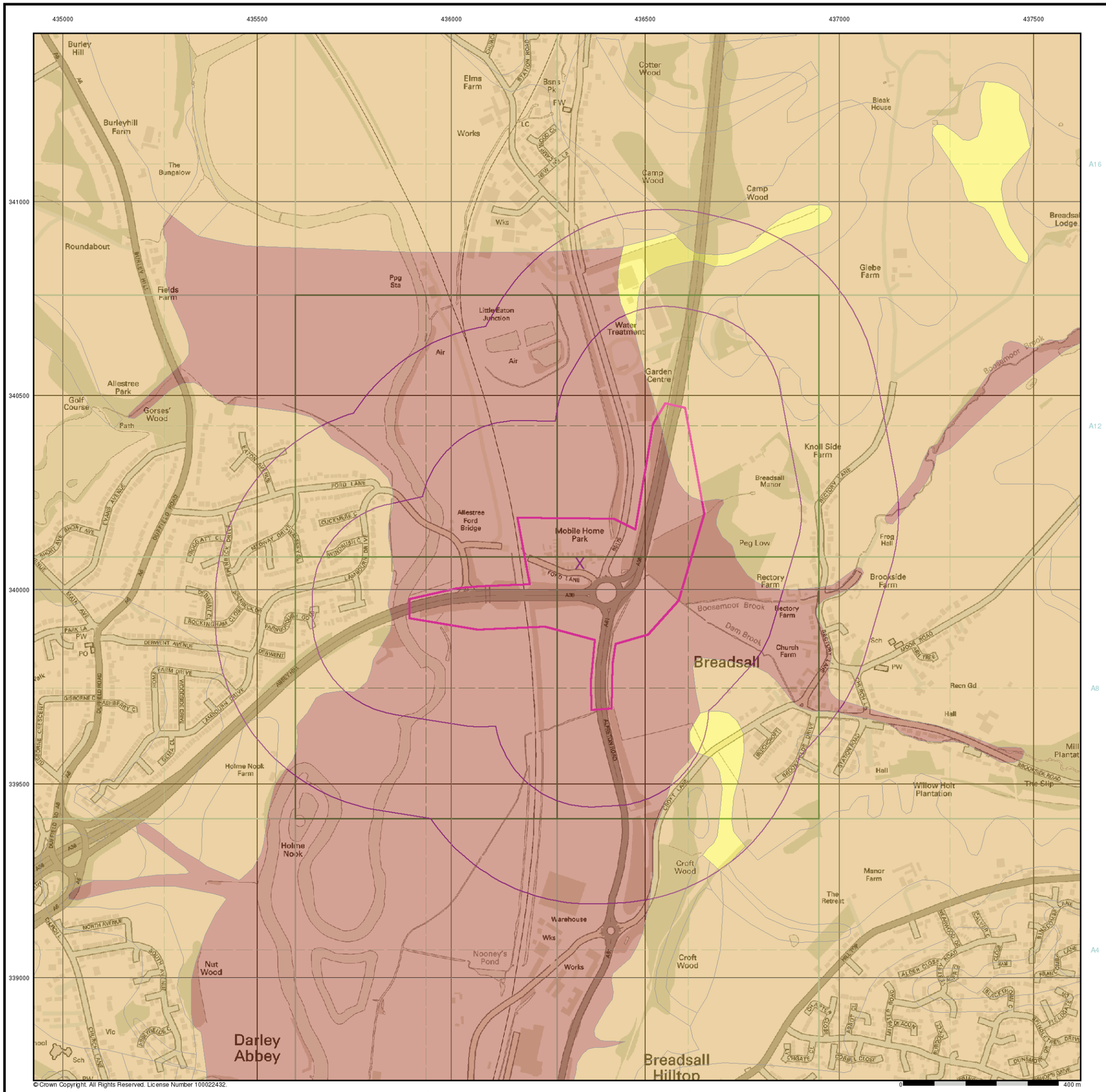
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search buffer (m):	500

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General

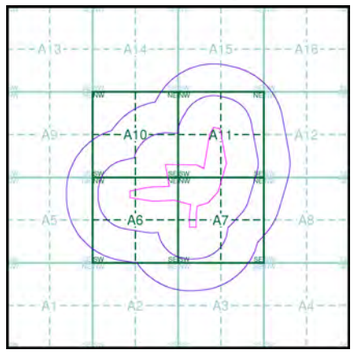
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



Order Details

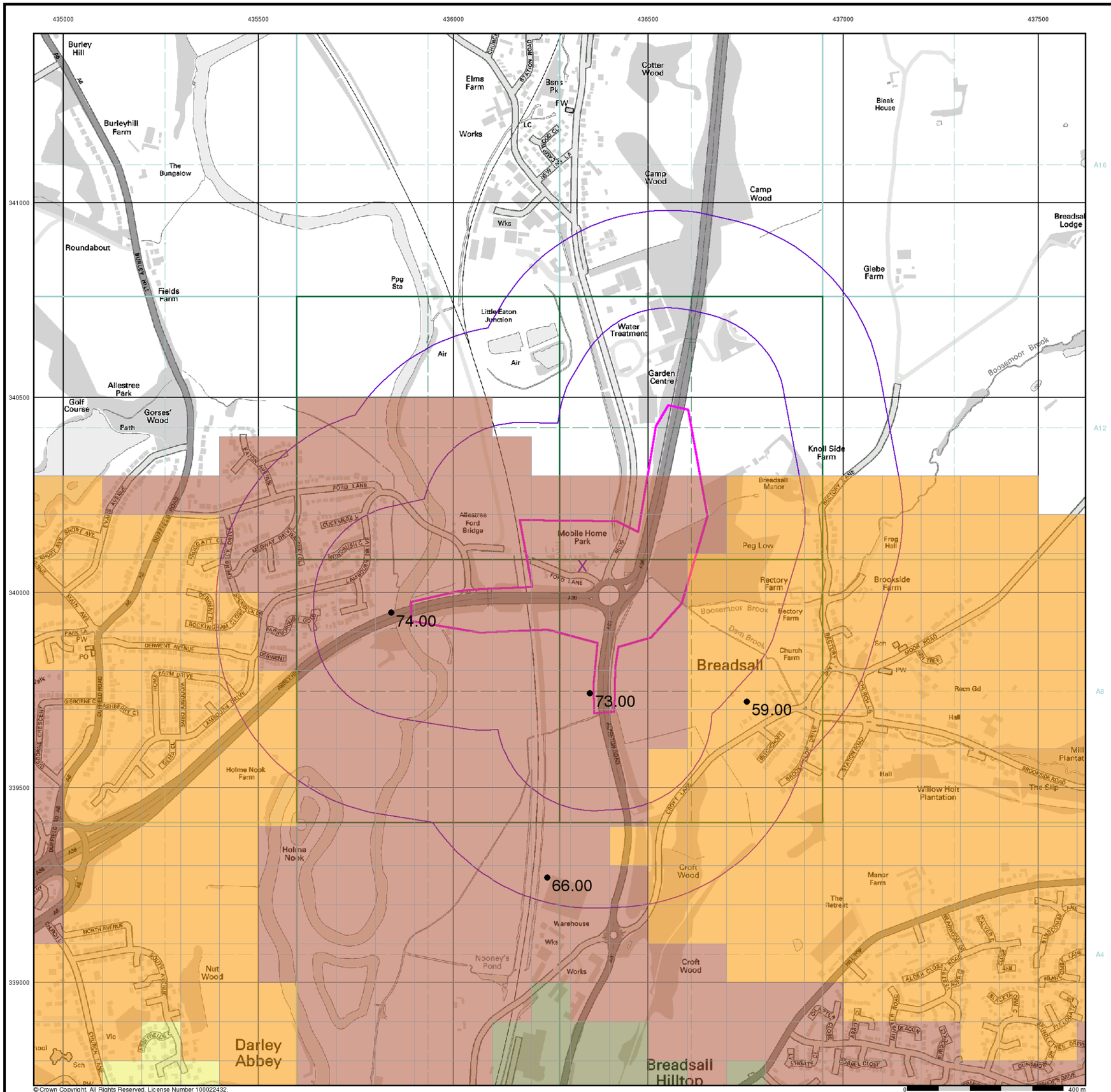
Order Details:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search buffer (m):	500

Site Details

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Specified Site | Specified Buffer(s) | X Bearing Reference Point

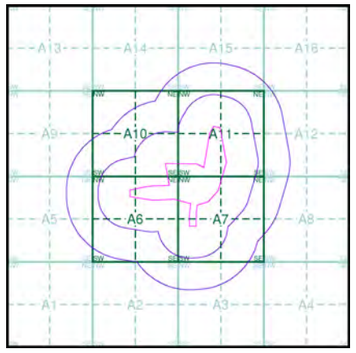
Urban Soil Chemistry Chromium

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Urban Soil Chemistry Chromium - Slice A



Order Details

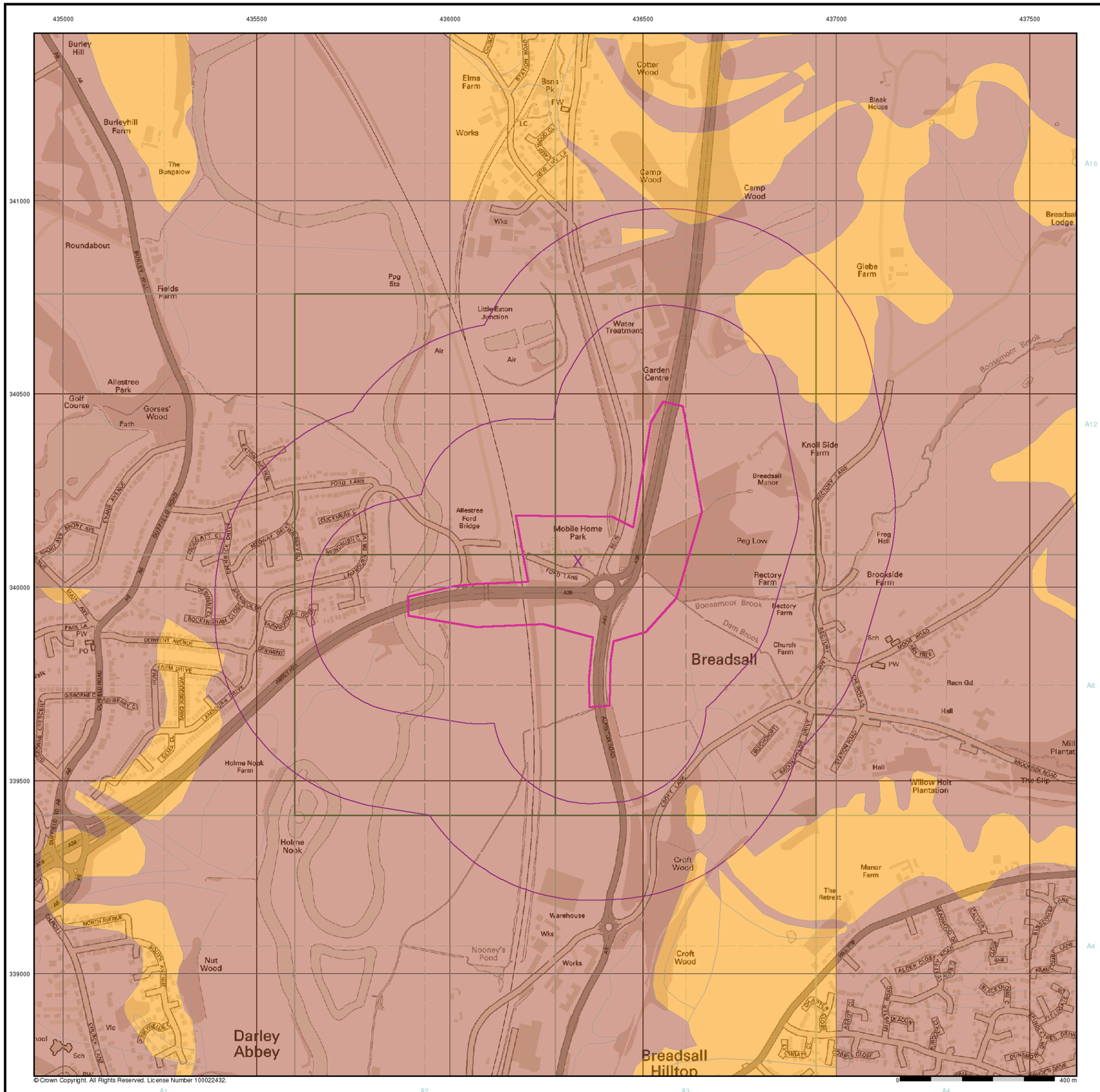
Order Details:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search buffer (m):	500

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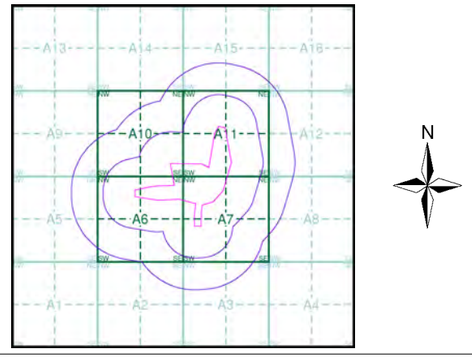
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



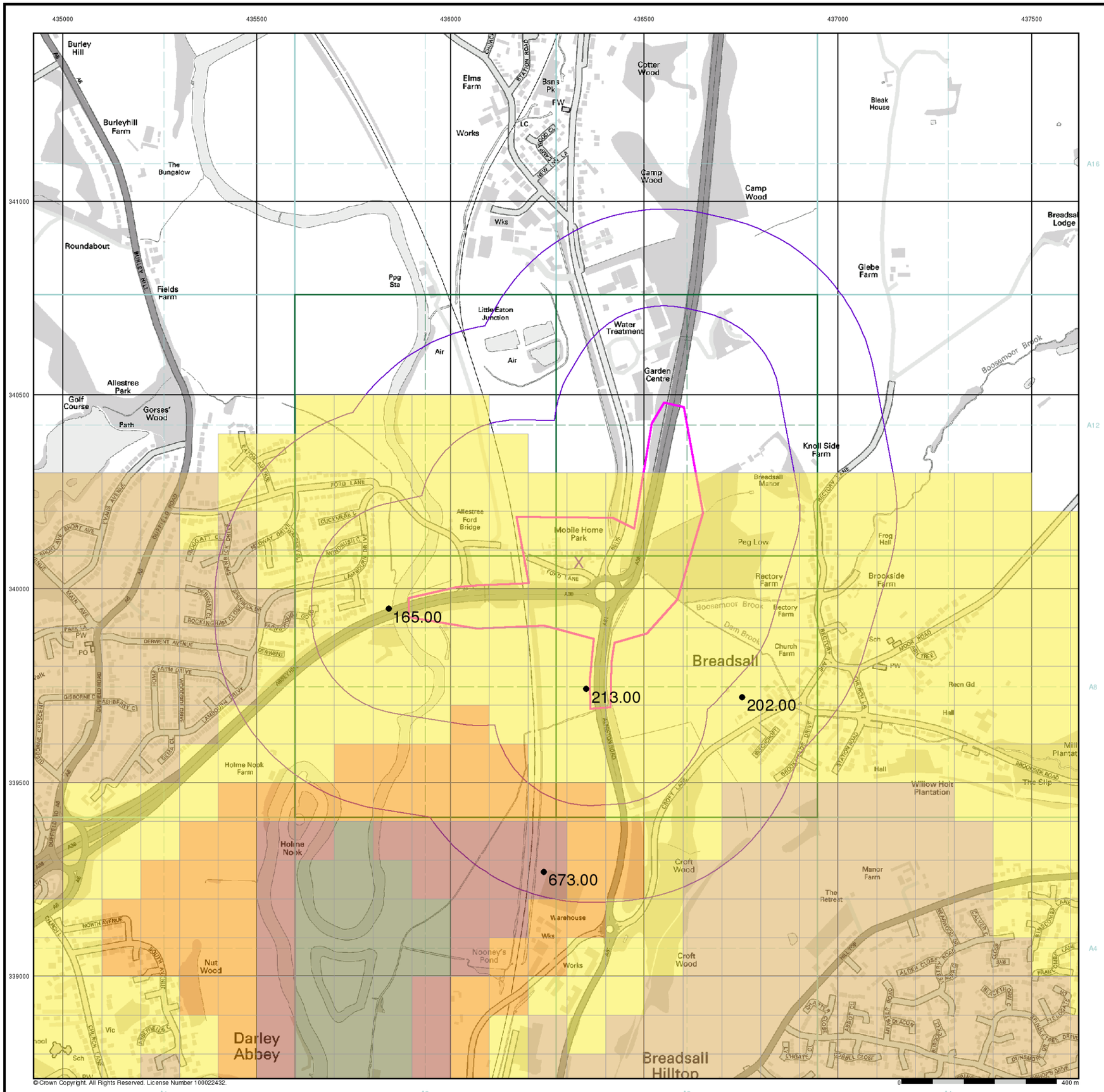
Order Details

Order Details:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search buffer (m):	500

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General

Specified Site | Specified Buffer(s) | X Bearing Reference Point

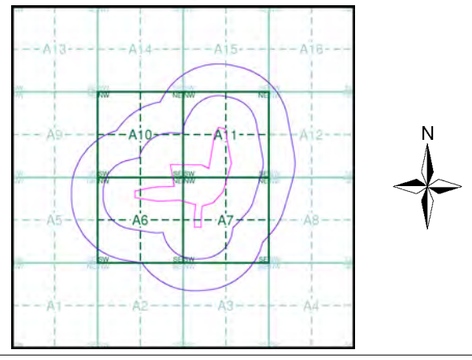
Urban Soil Chemistry Lead

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Urban Soil Chemistry Lead - Slice A



Order Details

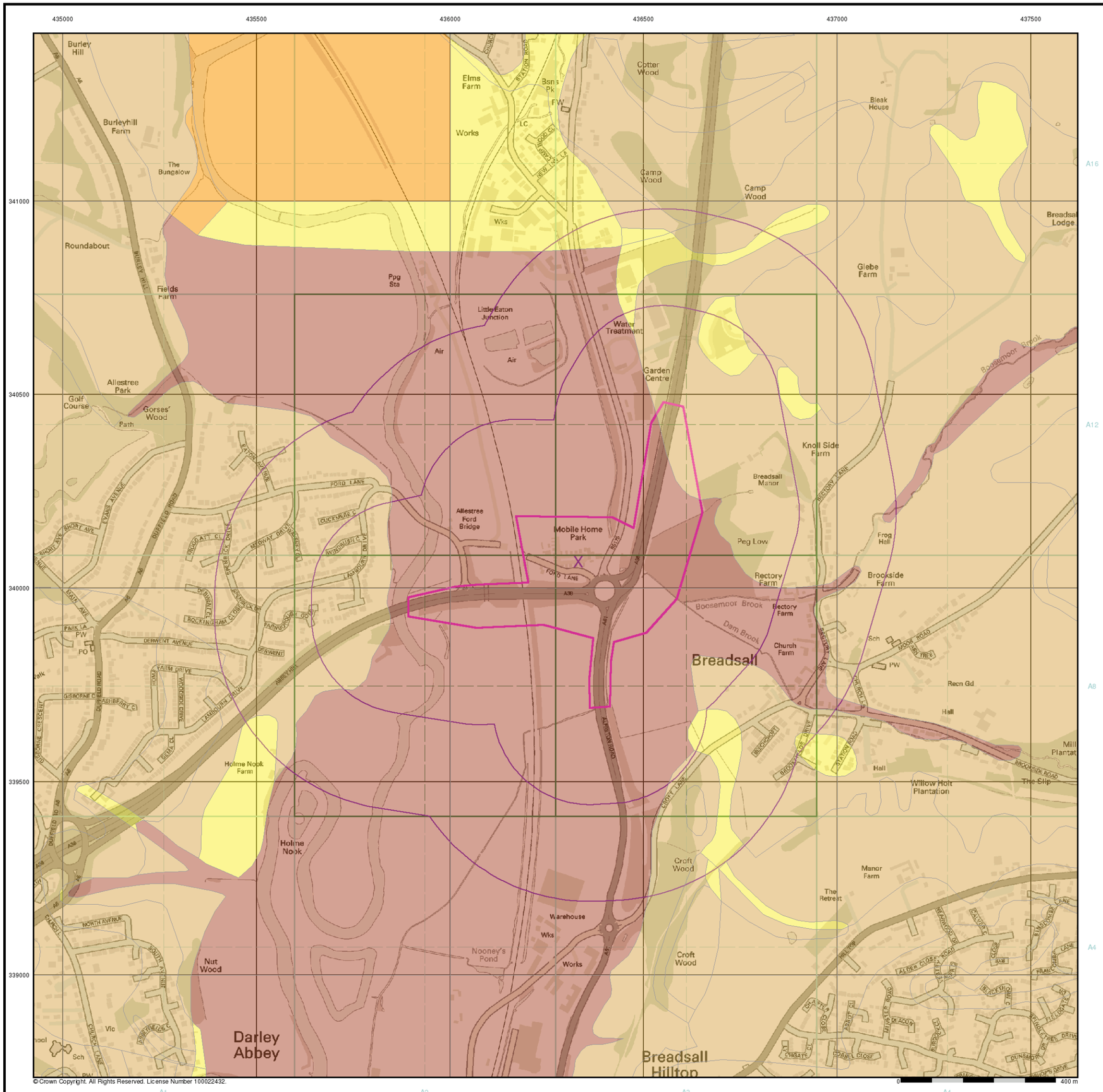
Order Details:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
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General

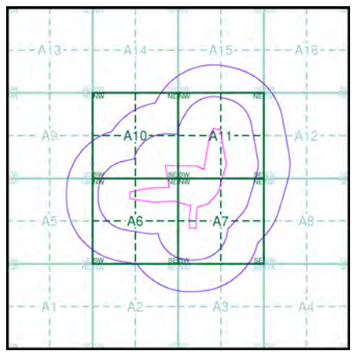
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Estimated Soil Chemistry Lead - Slice A



Order Details

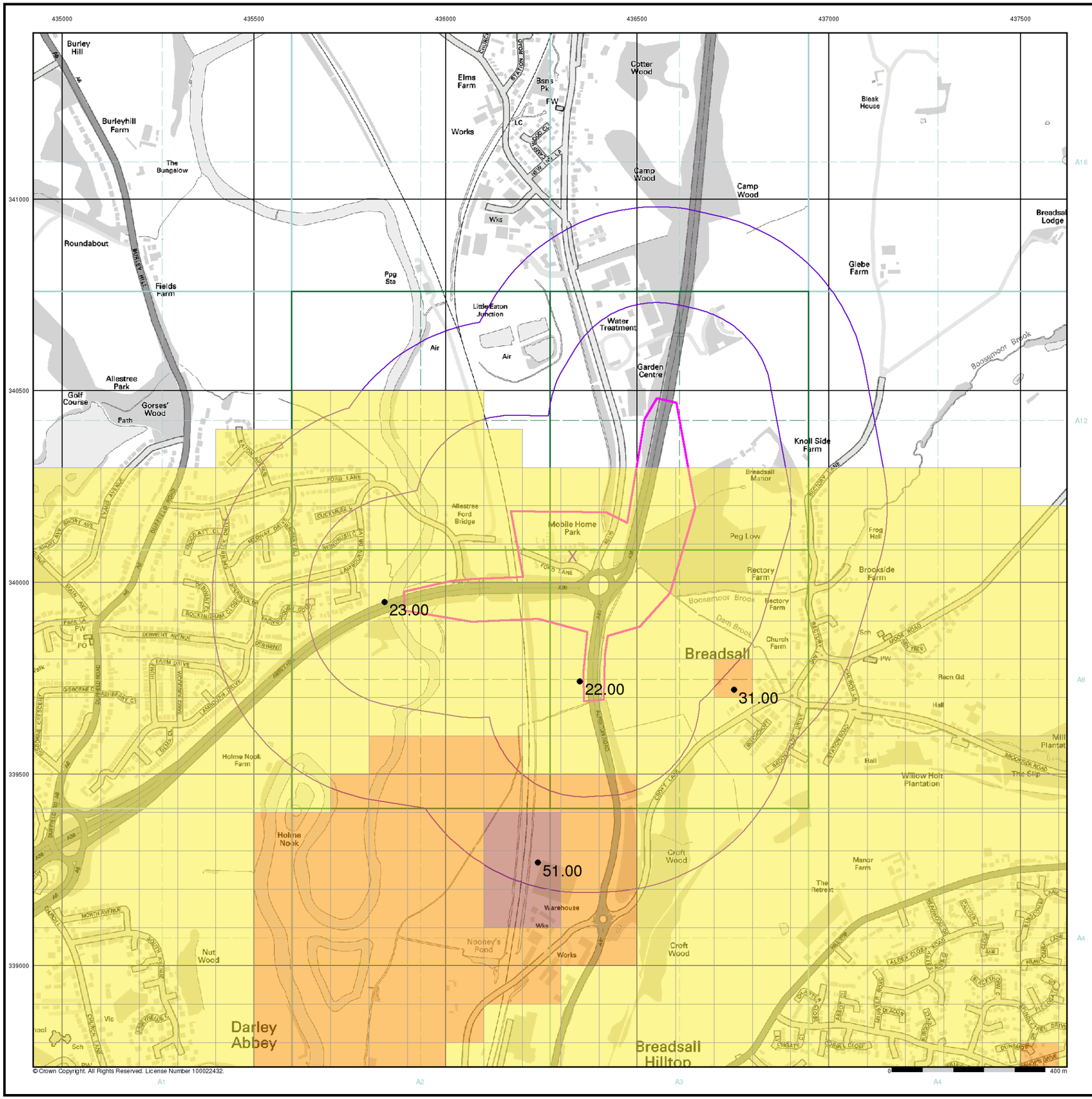
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search buffer (m):	500

Site Details

Site at, Derby, City of Derby

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General

Specified Site | Specified Buffer(s) | X Bearing Reference Point

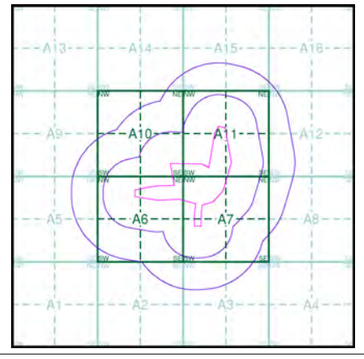
Urban Soil Chemistry Nickel

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Urban Soil Chemistry Nickel - Slice A



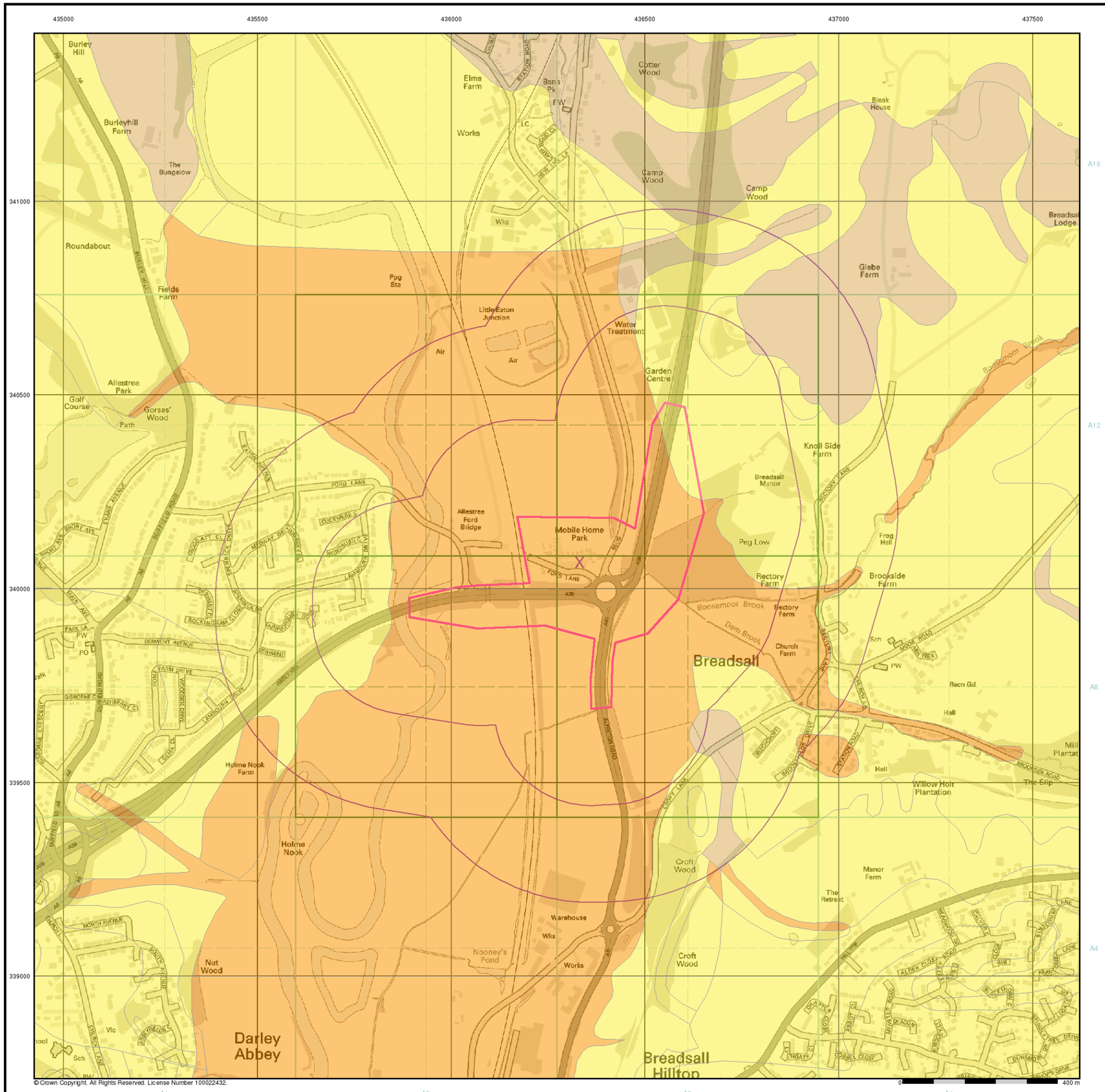
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General

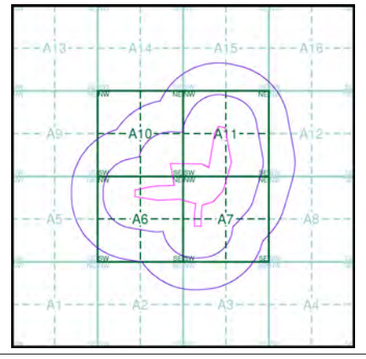
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



Order Details

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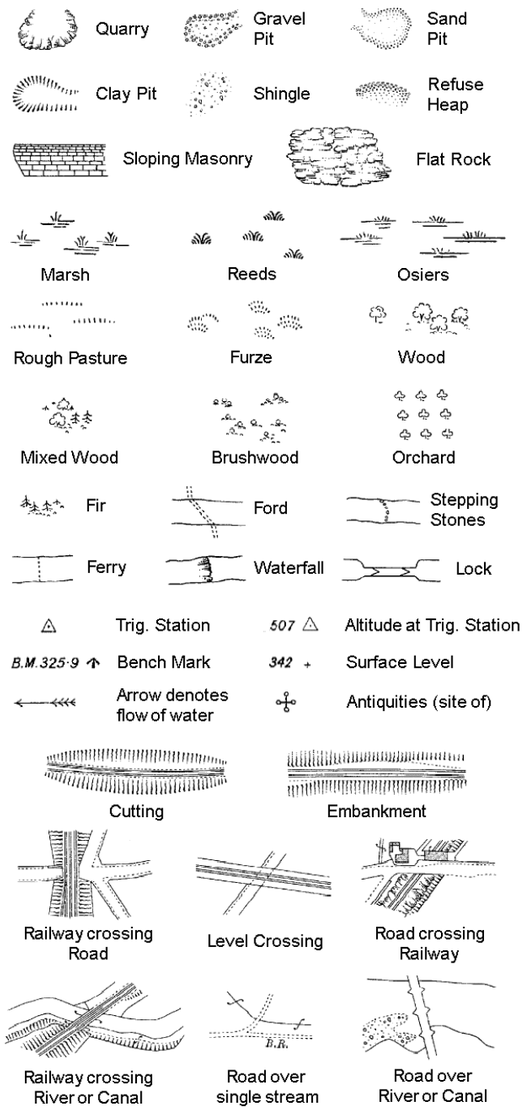
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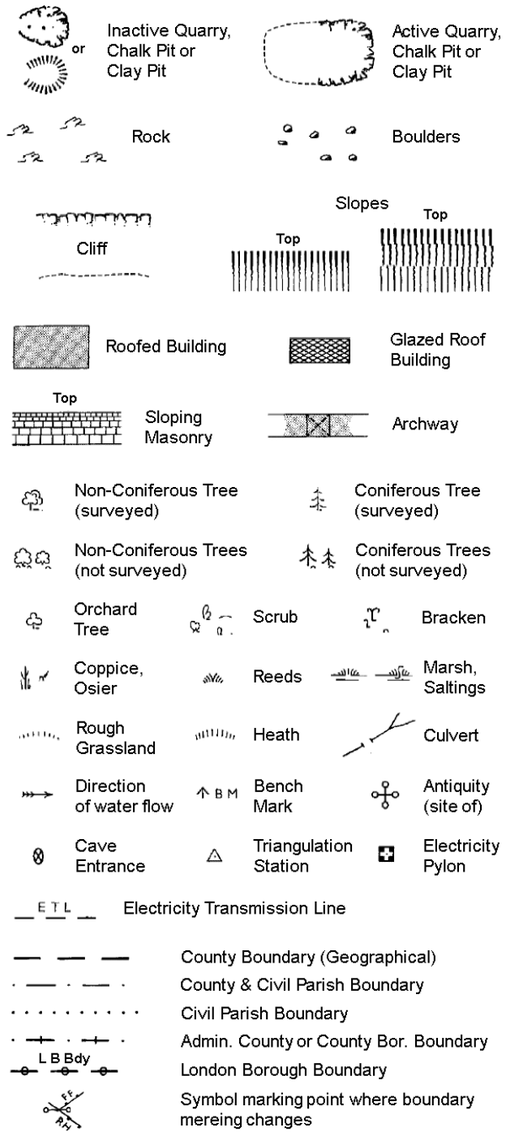
Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



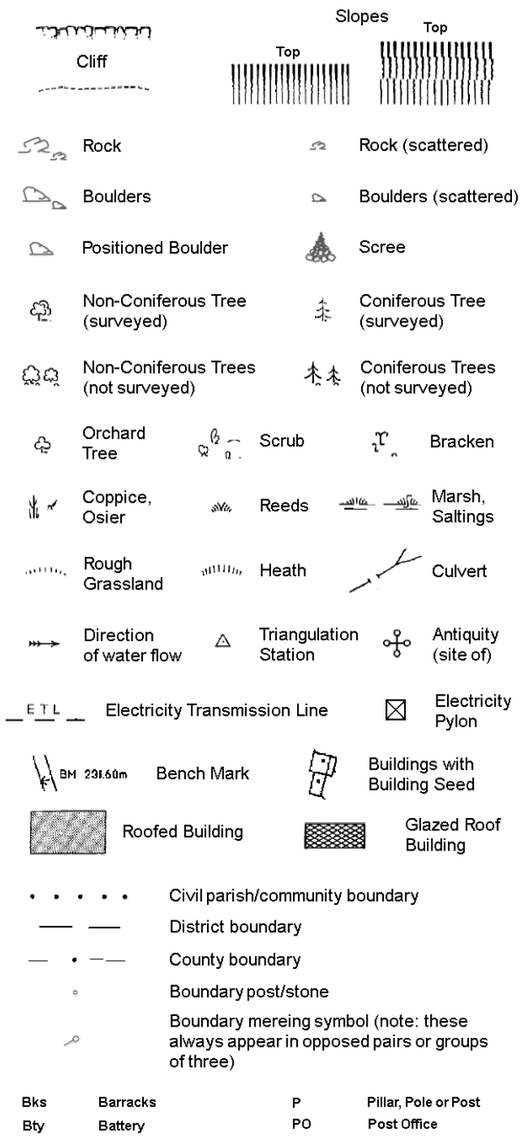
B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



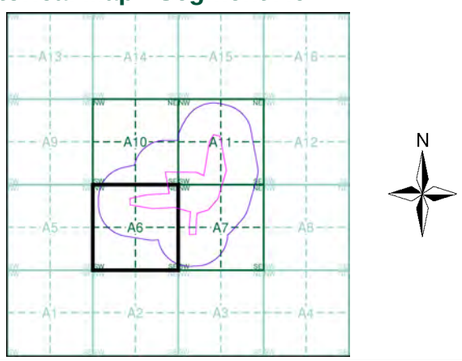
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1882	2
Derbyshire	1:2,500	1900	3
Derbyshire	1:2,500	1914	4
Derbyshire	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1961 - 1970	6
Ordnance Survey Plan	1:2,500	1970	7
Supply of Unpublished Survey Information	1:2,500	1973 - 1974	8
Supply of Unpublished Survey Information	1:2,500	1974 - 1976	9
Additional SIMs	1:2,500	1980 - 1988	10
Ordnance Survey Plan	1:1,250	1982 - 1987	11
Additional SIMs	1:1,250	1982	12
Additional SIMs	1:1,250	1989	13
Additional SIMs	1:2,500	1989 - 1990	14
Large-Scale National Grid Data	1:2,500	1993	15
Large-Scale National Grid Data	1:1,250	1993	16

Historical Map - Segment A6



Order Details

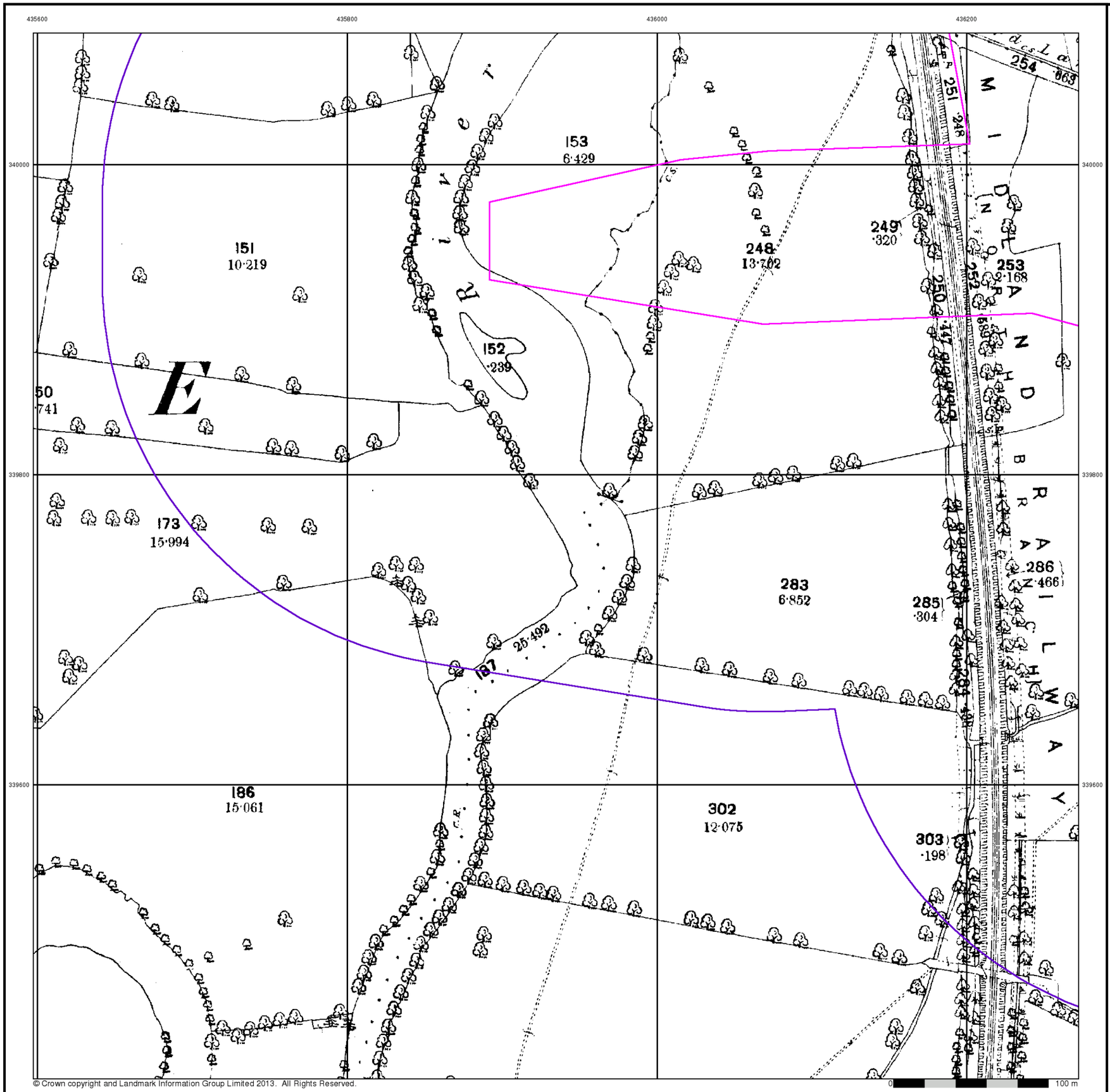
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Customer Ref:	47071637.208APS
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Site Area (Ha):	19.55
Search Buffer (m):	250

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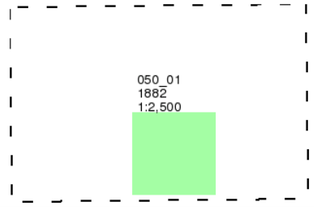
Derbyshire

Published 1882

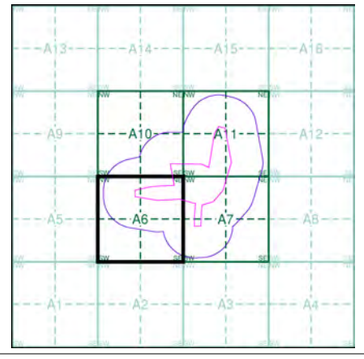
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

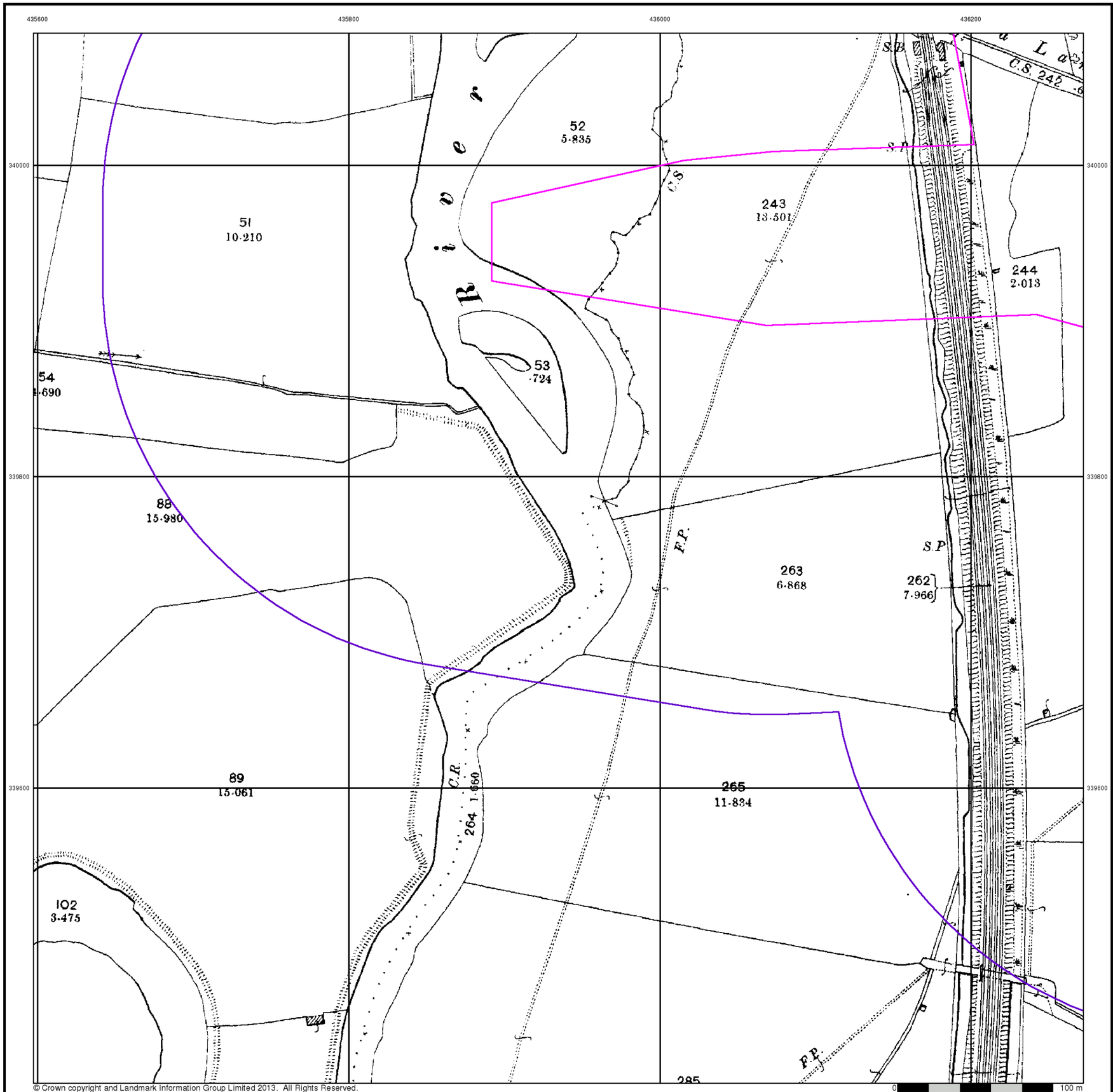
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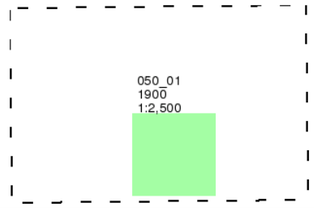
Derbyshire

Published 1900

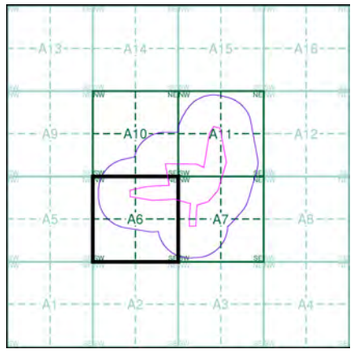
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A6



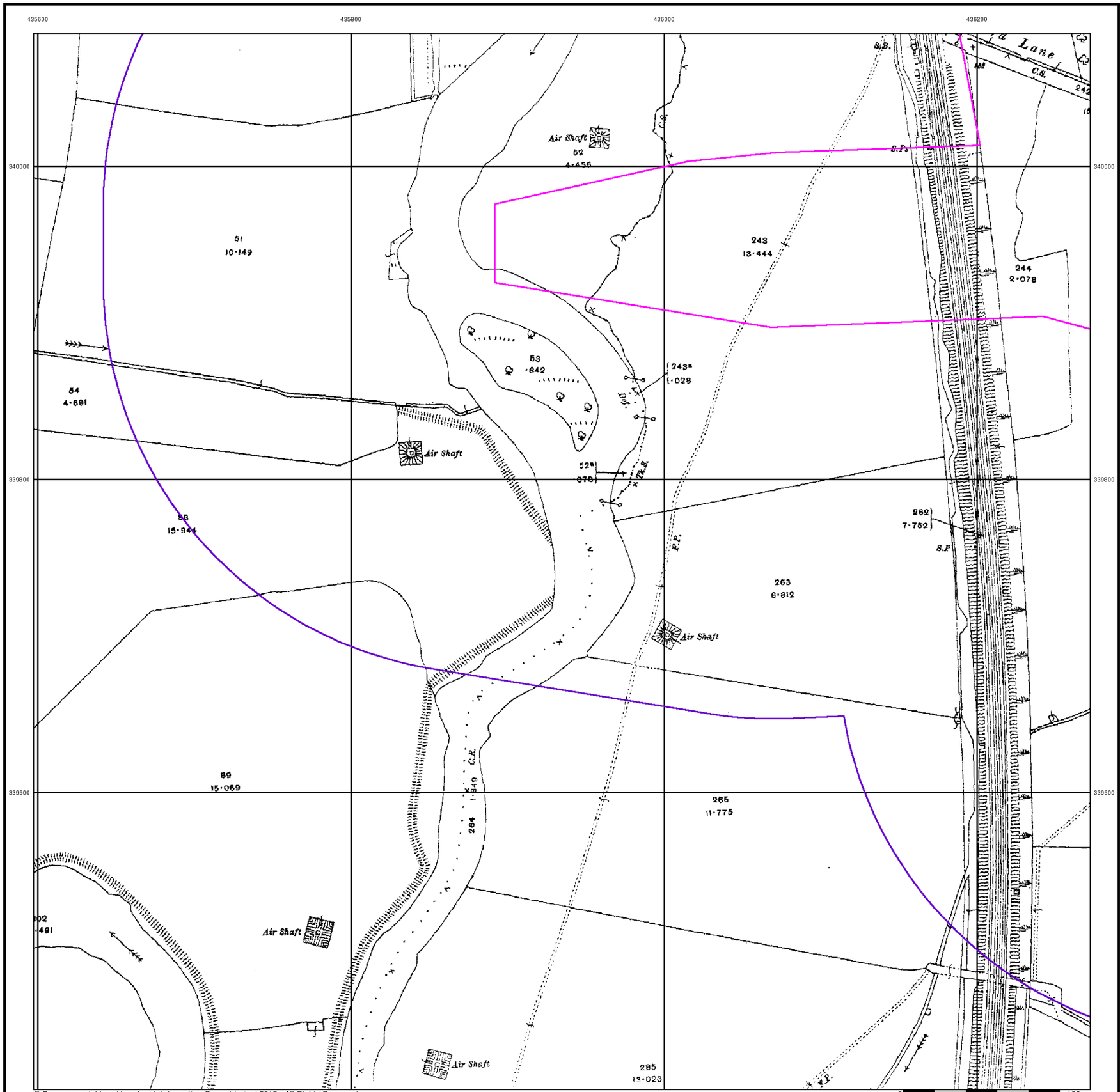
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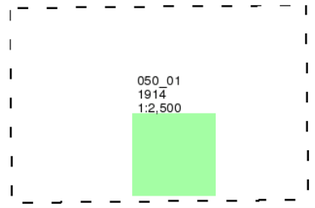
Derbyshire

Published 1914

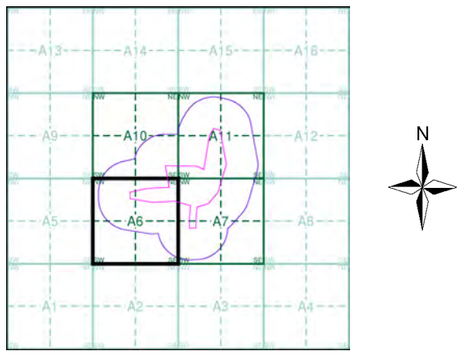
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A6



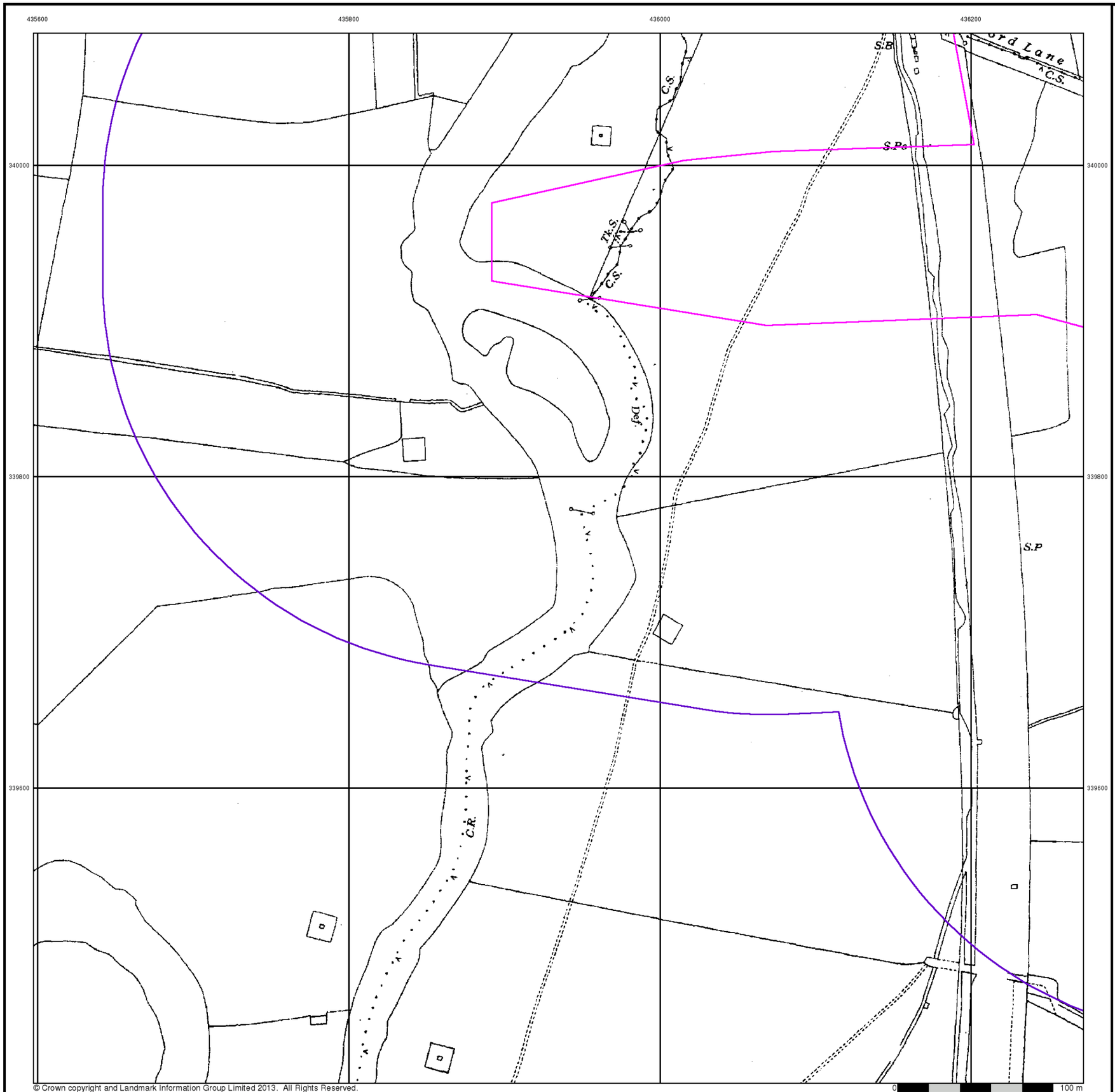
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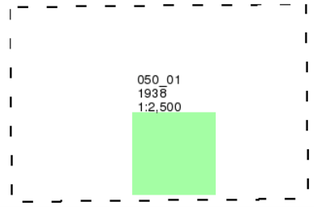
Derbyshire

Published 1938

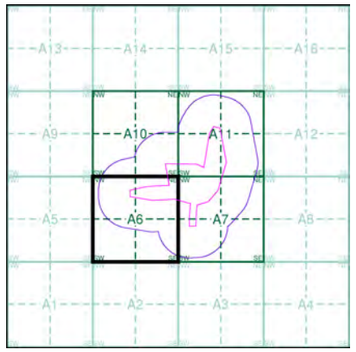
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A6



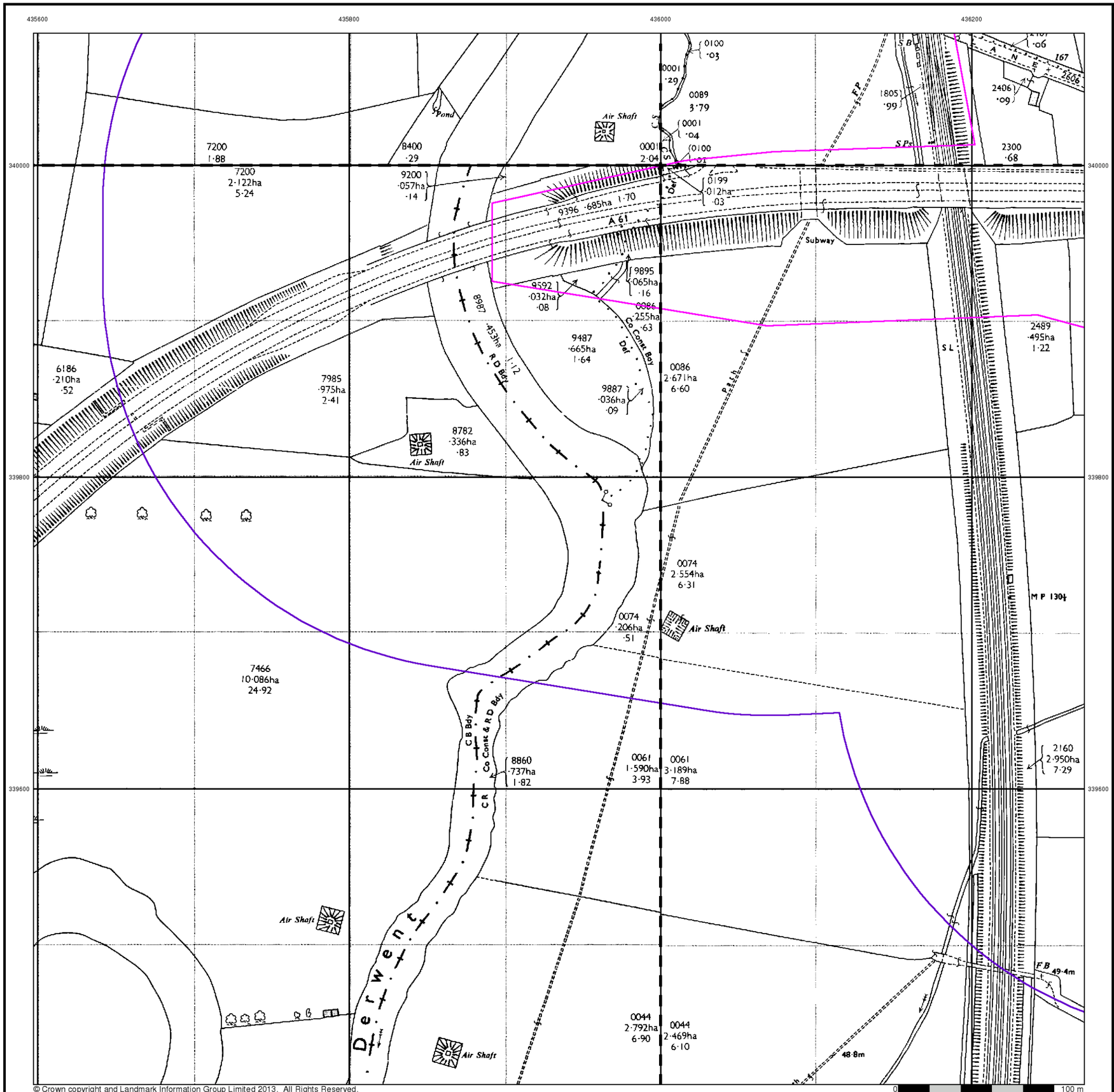
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Ordnance Survey Plan

Published 1961 - 1970

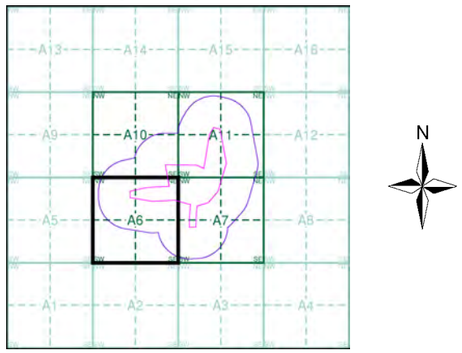
Source map scale - 1:2,500

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Map Name(s) and Date(s)

SK3540 1968 1:2,500	SK3640 1961 1:2,500
SK3539 1970 1:2,500	SK3639 1970 1:2,500

Historical Map - Segment A6



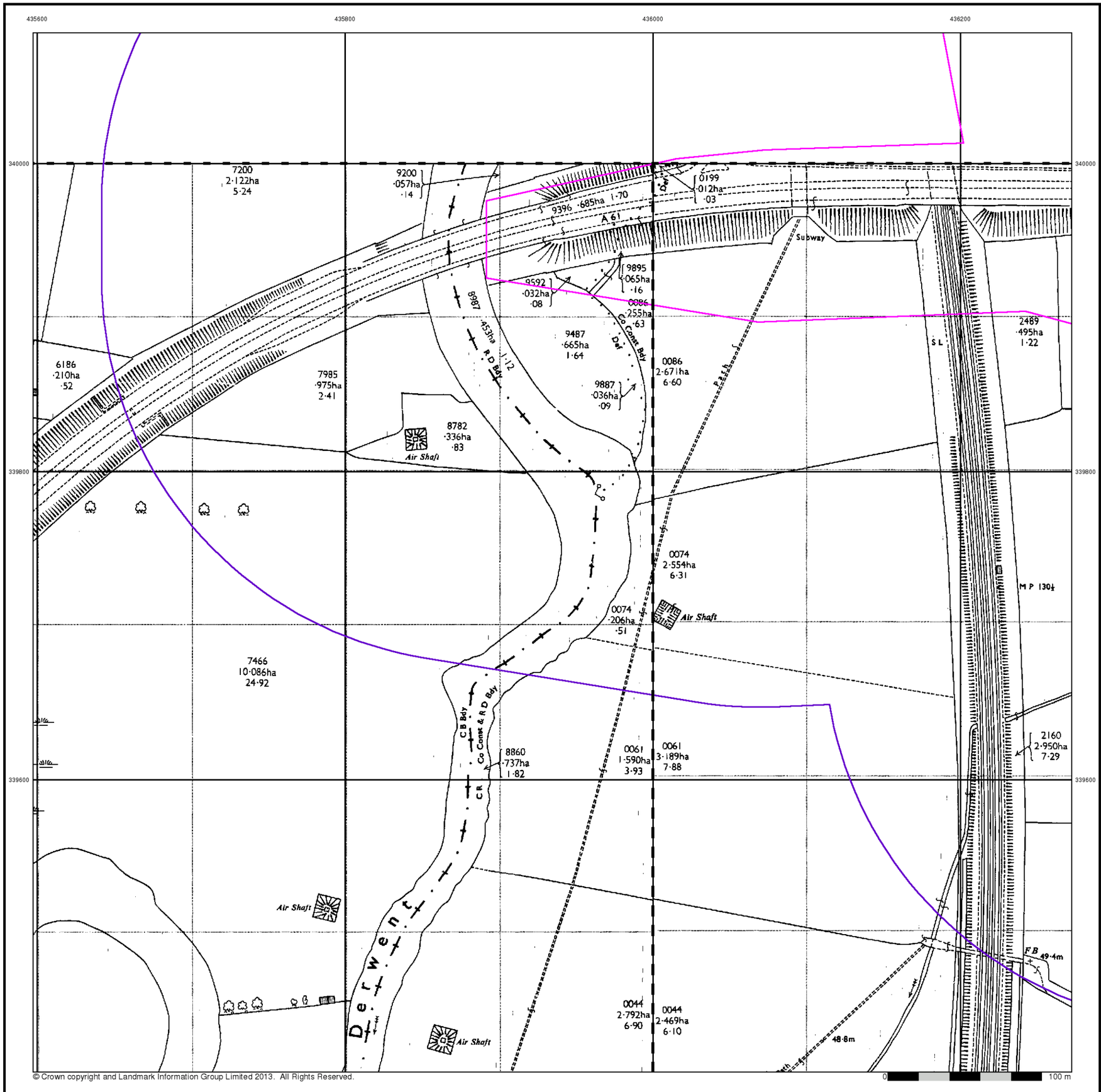
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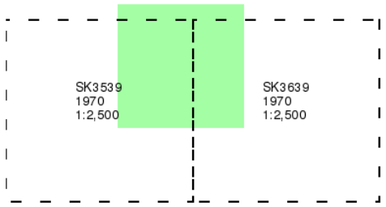
Ordnance Survey Plan

Published 1970

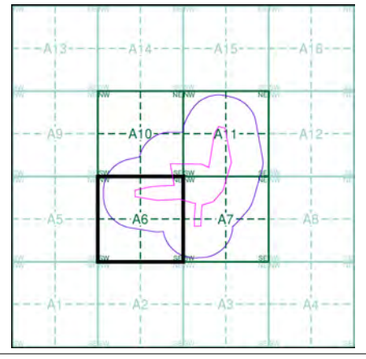
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A6



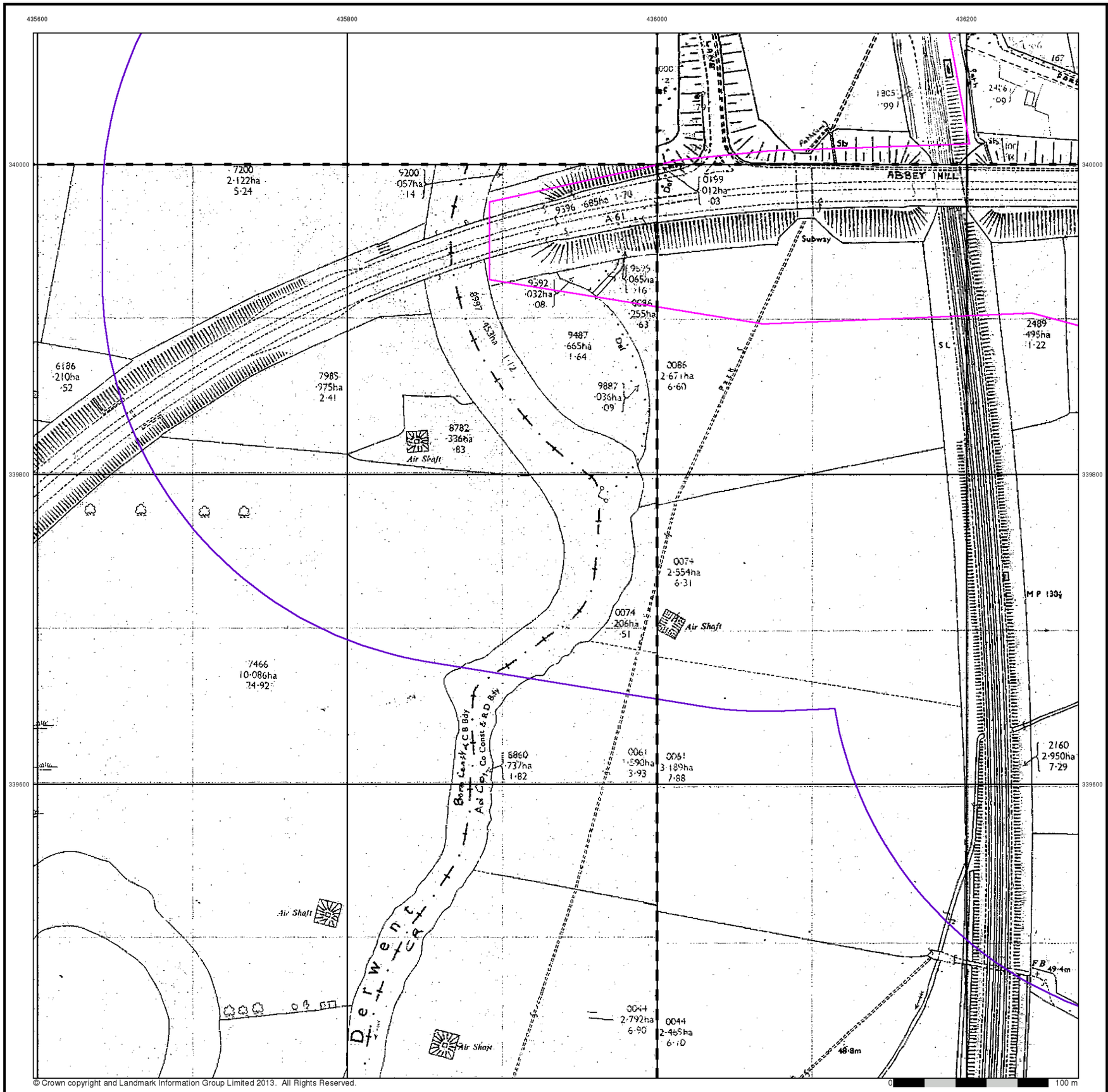
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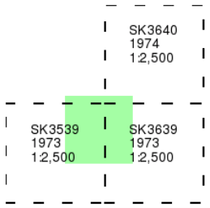
Supply of Unpublished Survey Information

Published 1973 - 1974

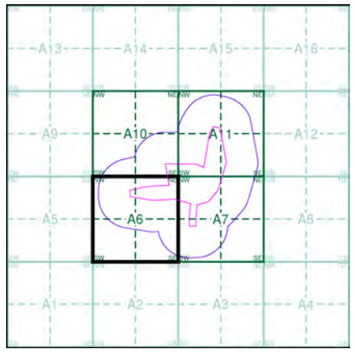
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A6



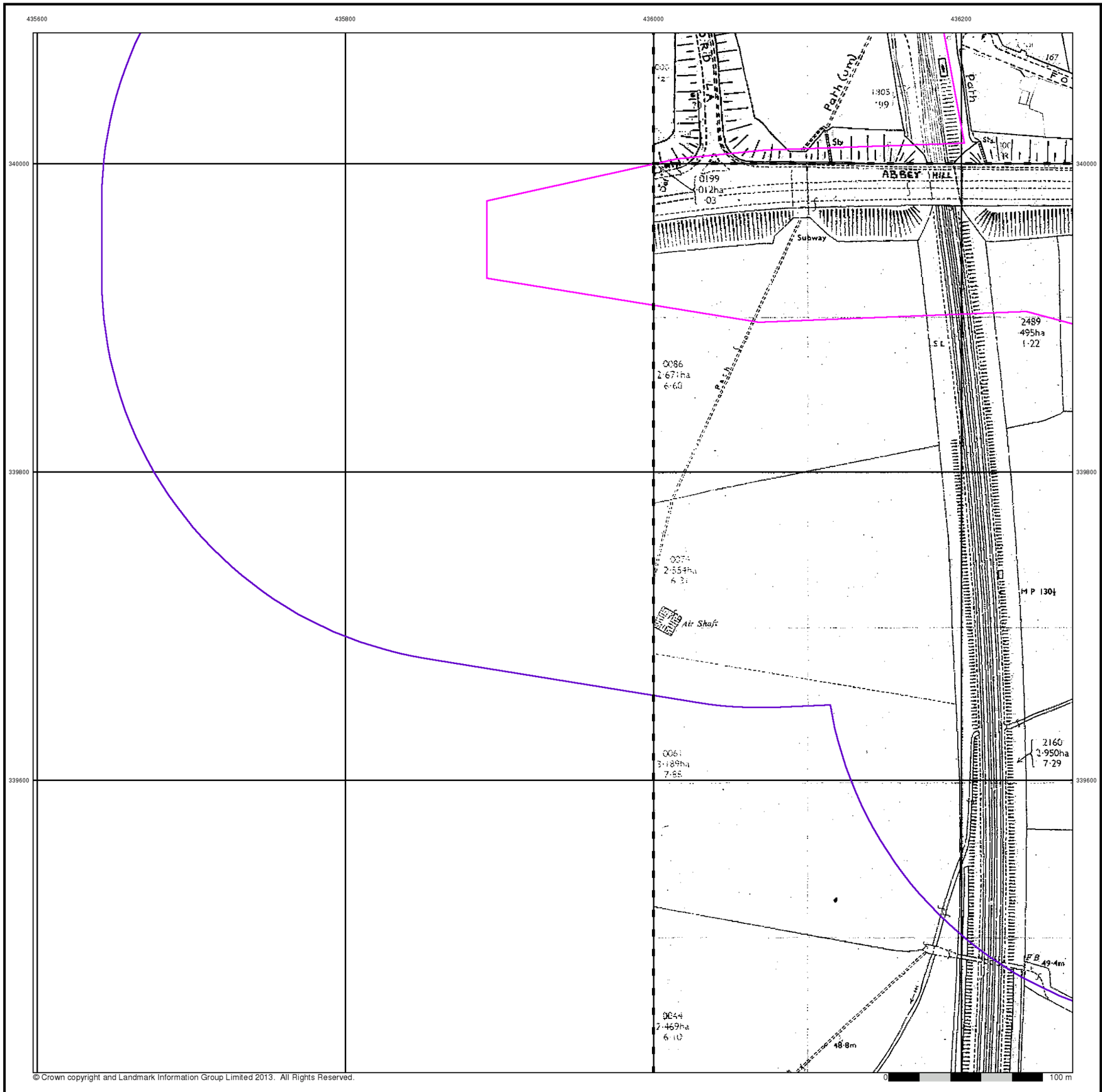
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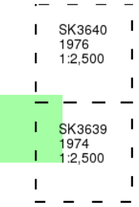
Supply of Unpublished Survey Information

Published 1974 - 1976

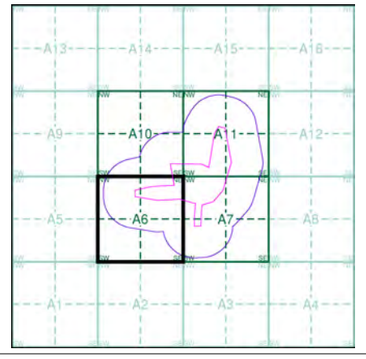
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A6



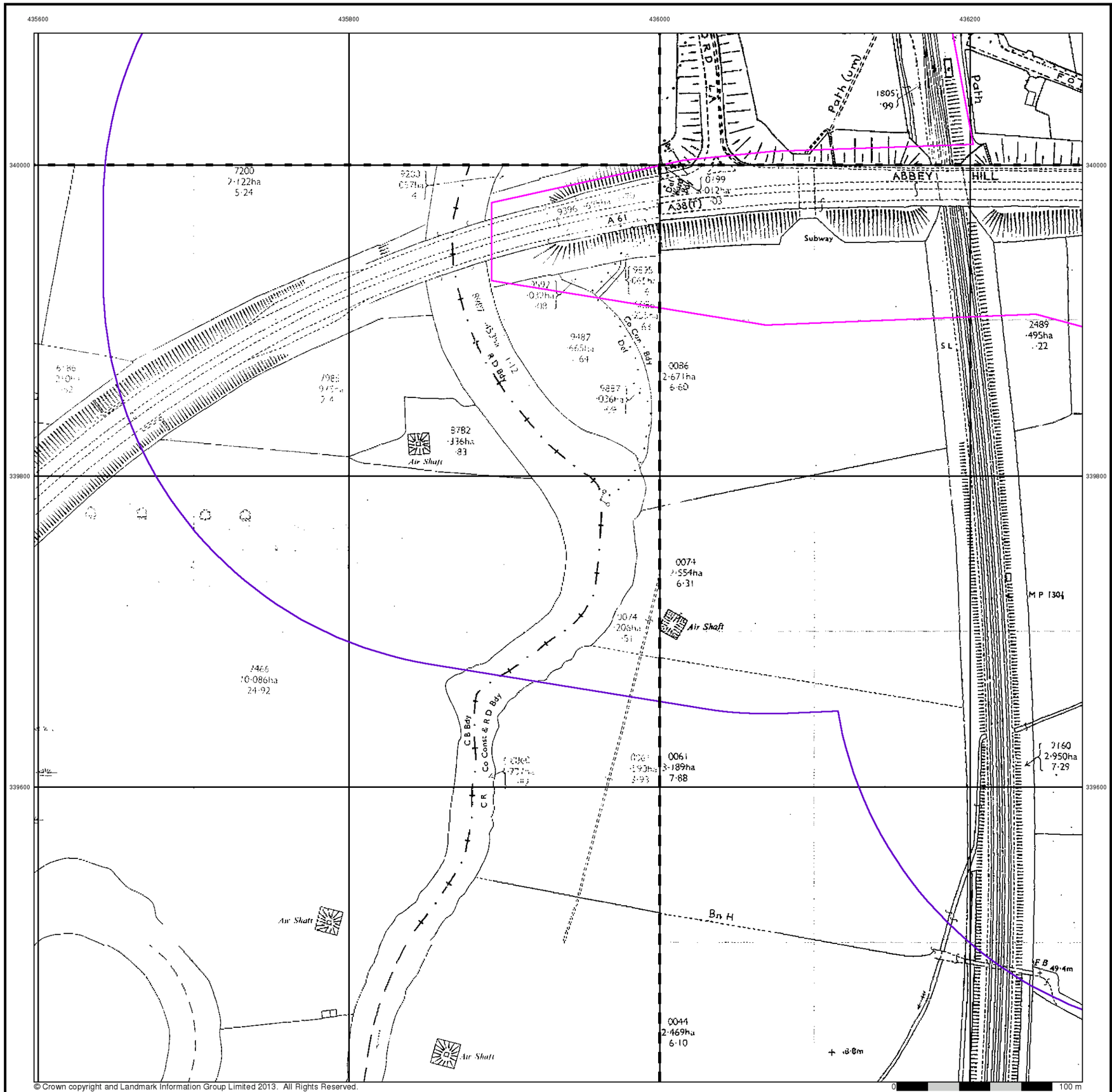
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National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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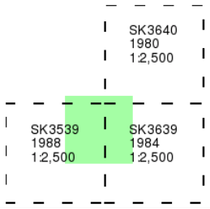
Additional SIMs

Published 1980 - 1988

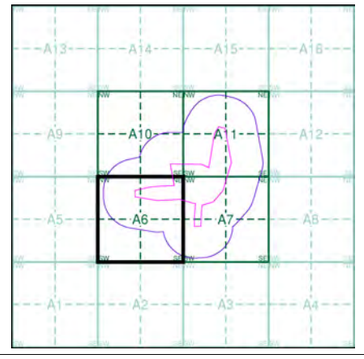
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

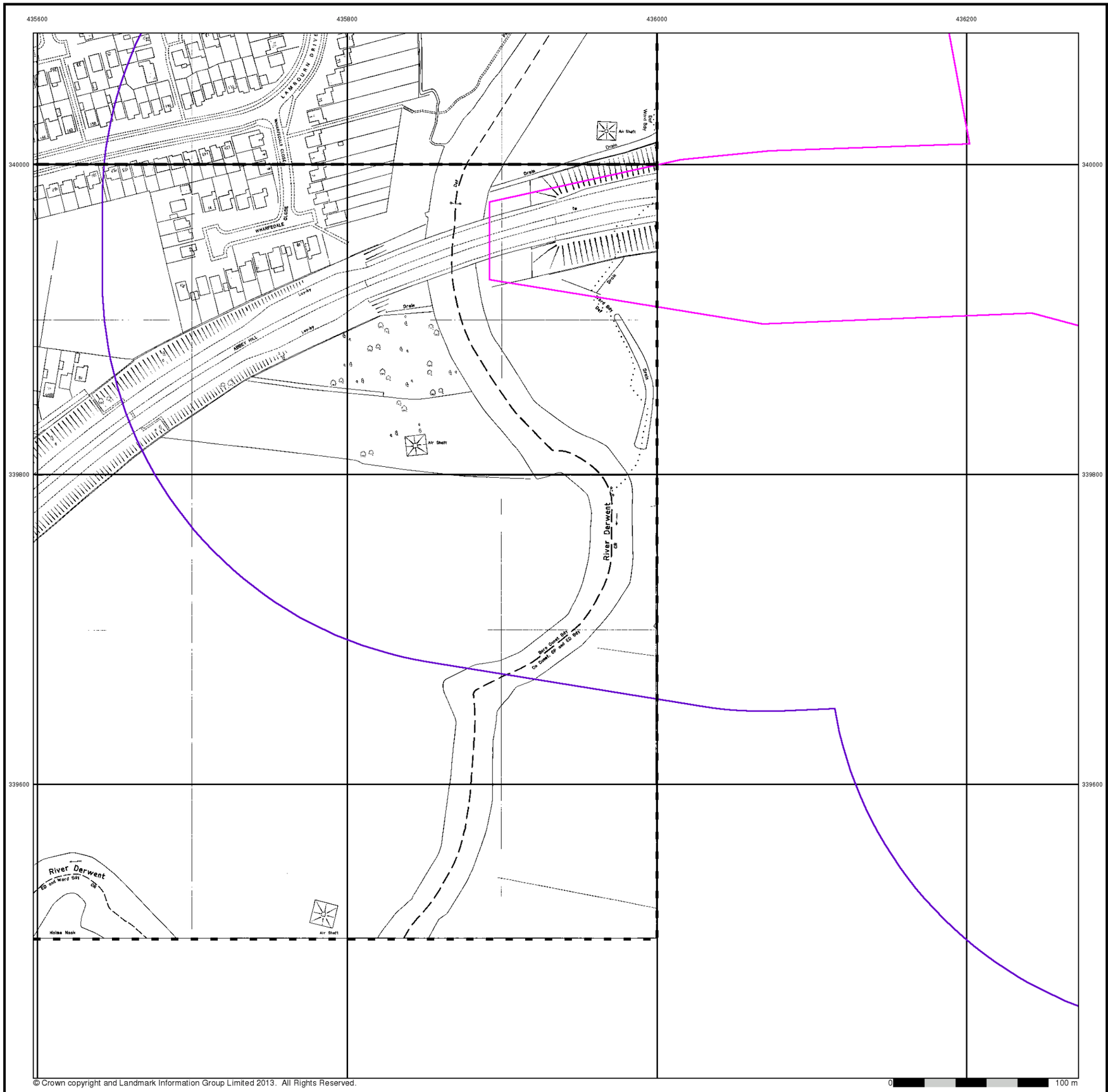
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
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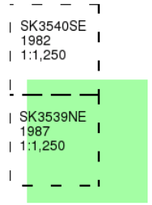
Ordnance Survey Plan

Published 1982 - 1987

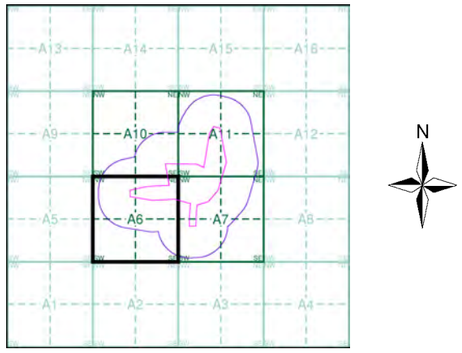
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A6



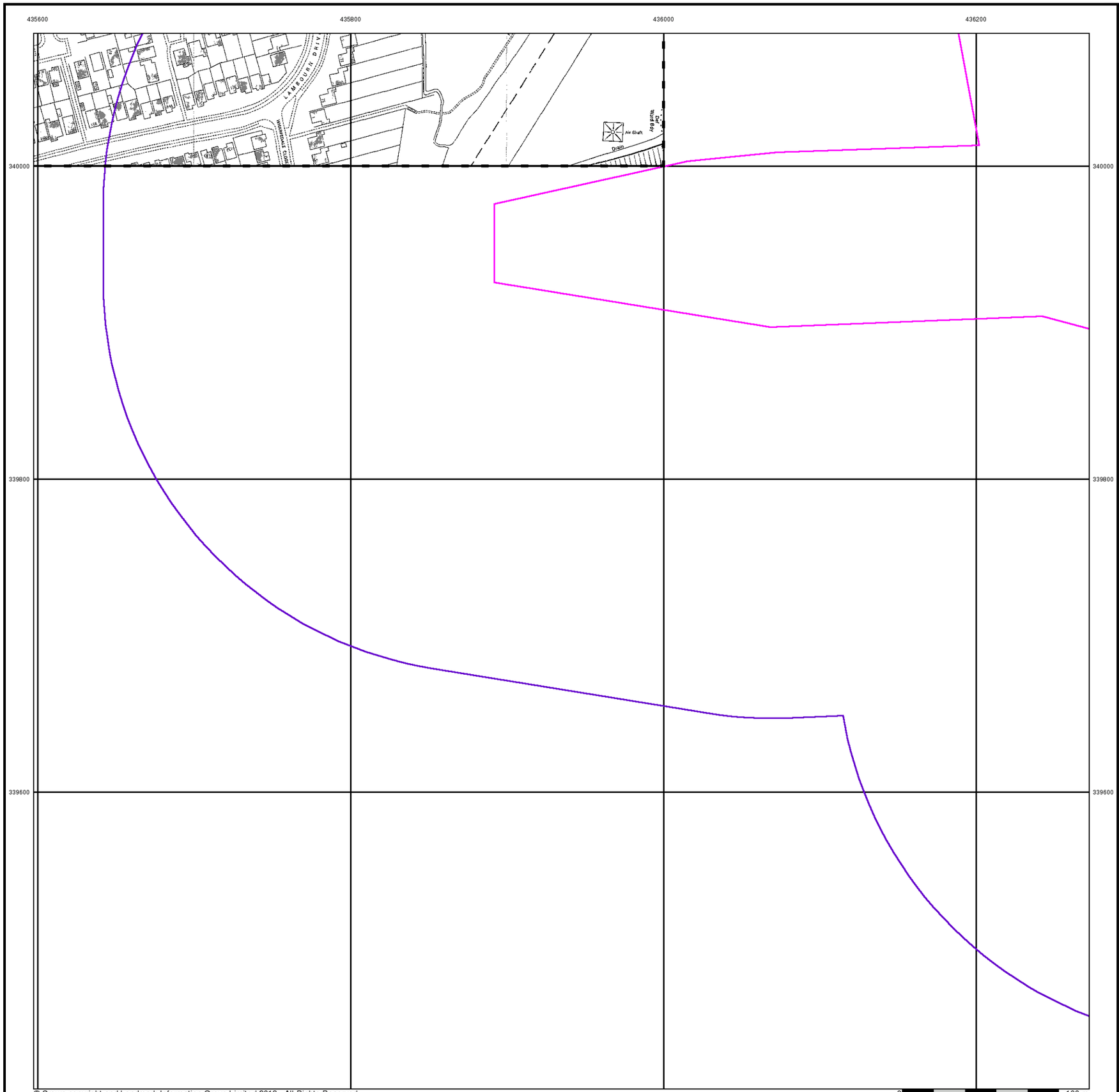
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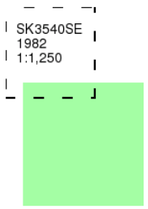
Additional SIMs

Published 1982

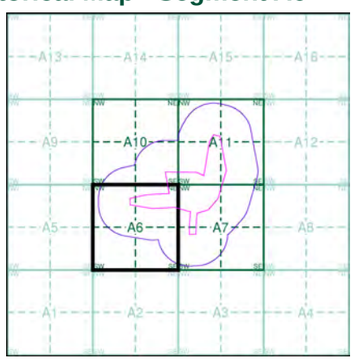
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A6



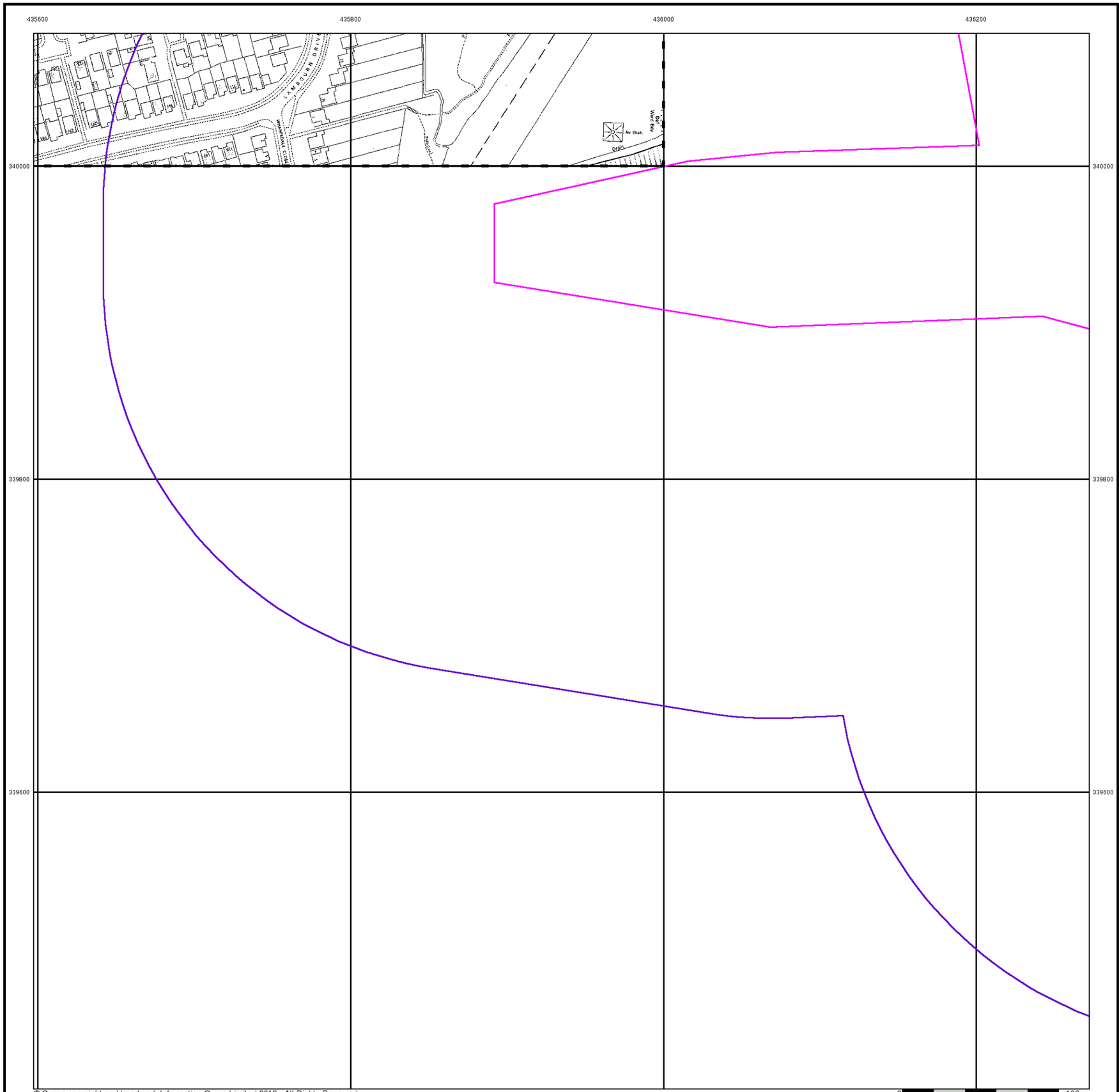
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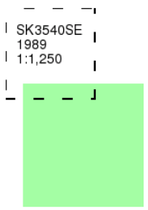
Additional SIMs

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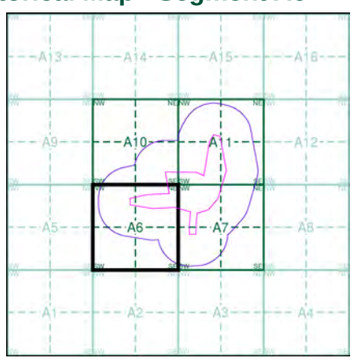
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

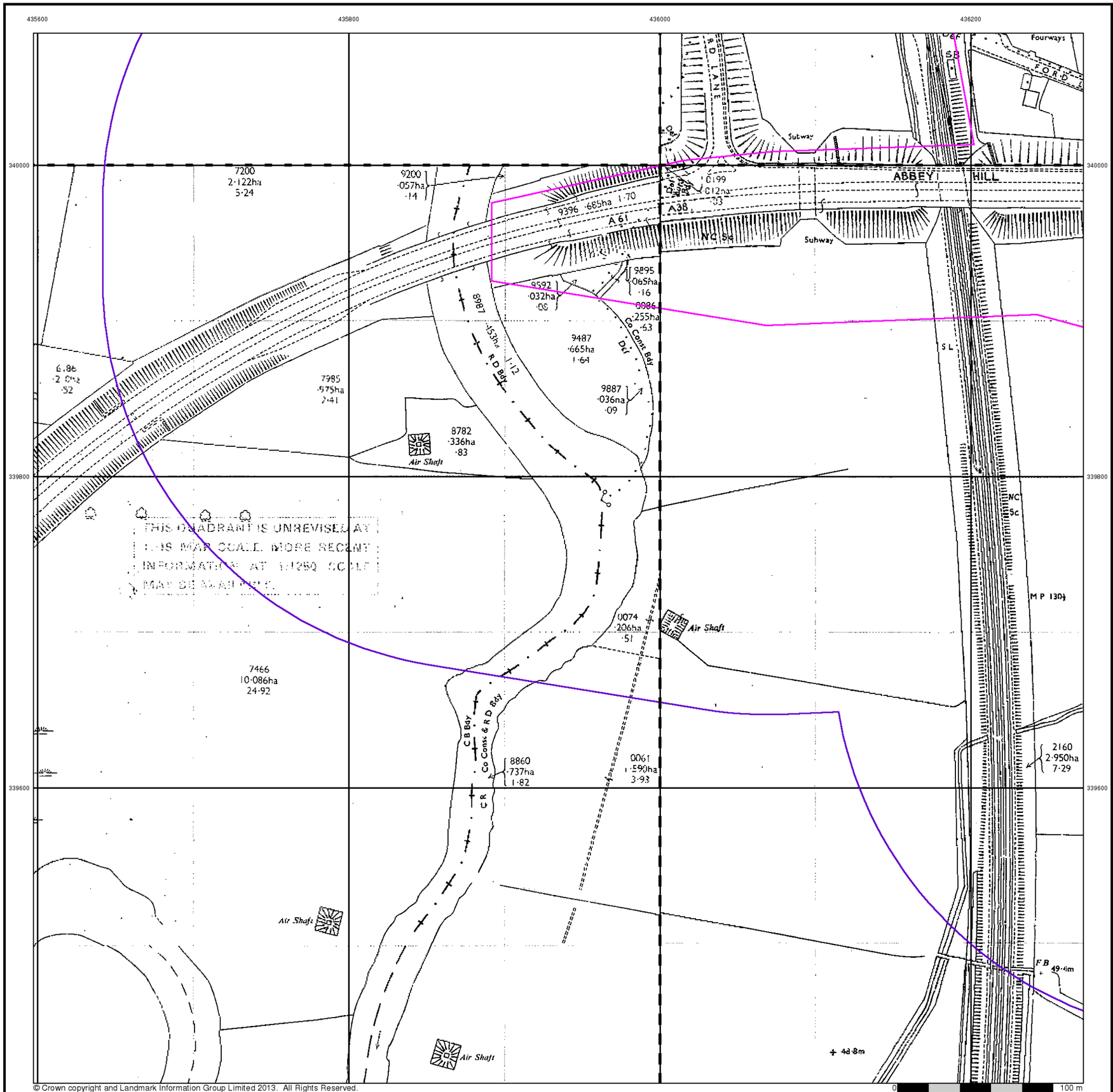
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National Grid Reference:	436330, 340070
Slice:	A
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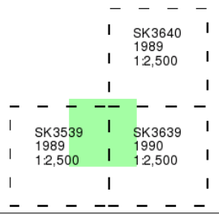
Additional SIMs

Published 1989 - 1990

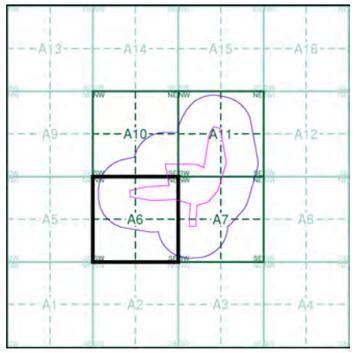
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

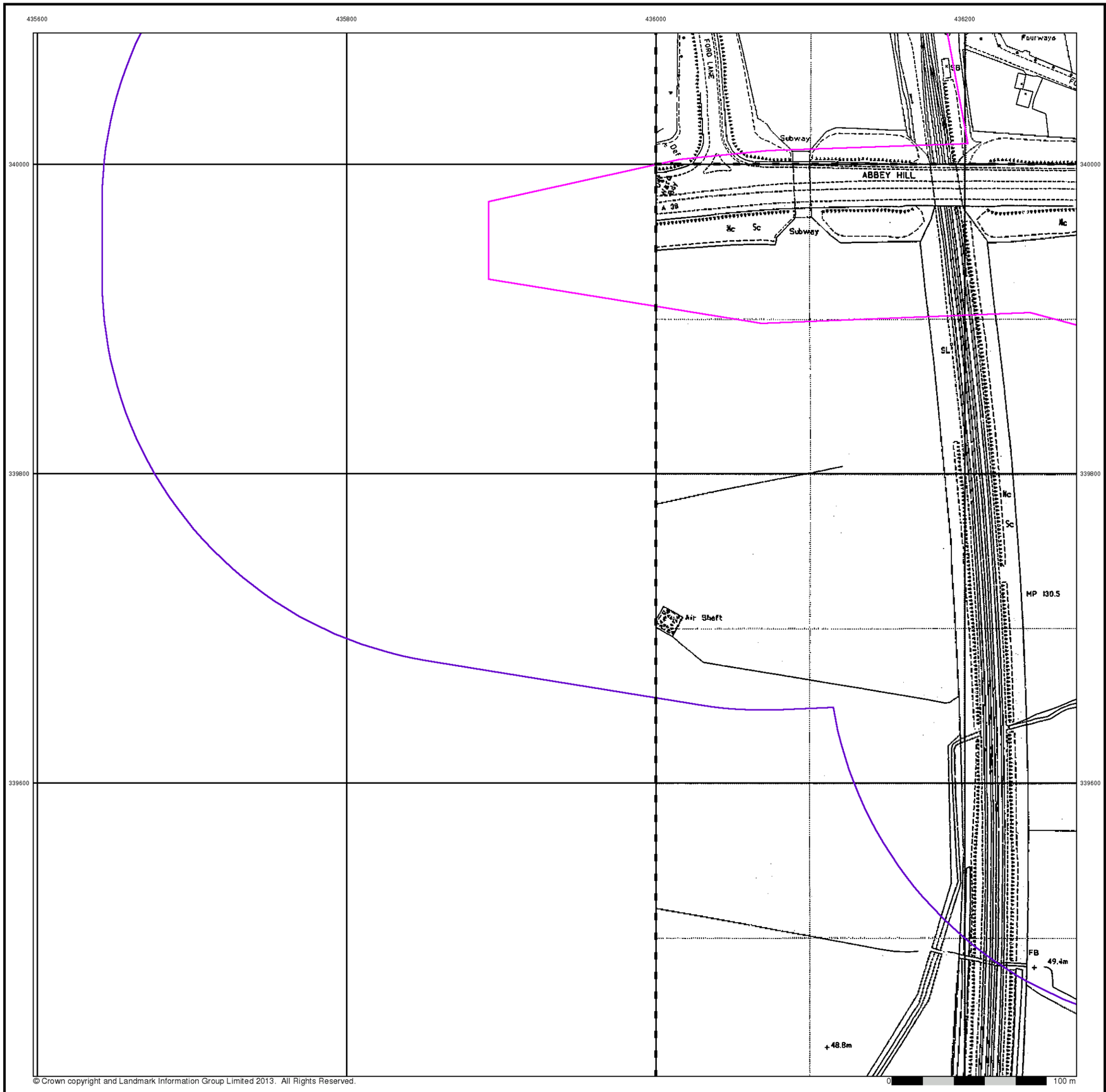
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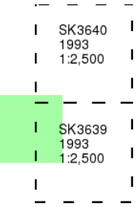
Large-Scale National Grid Data

Published 1993

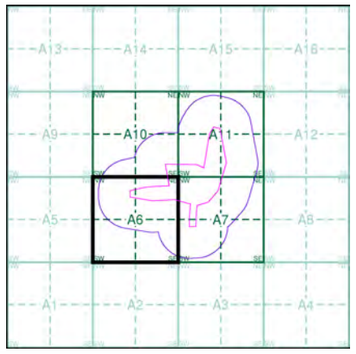
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

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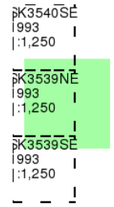
Large-Scale National Grid Data

Published 1993

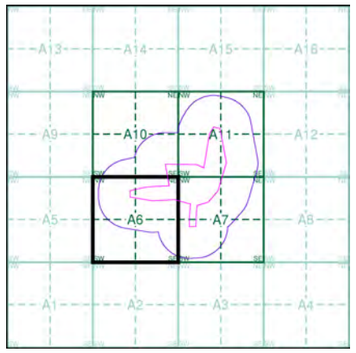
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A6



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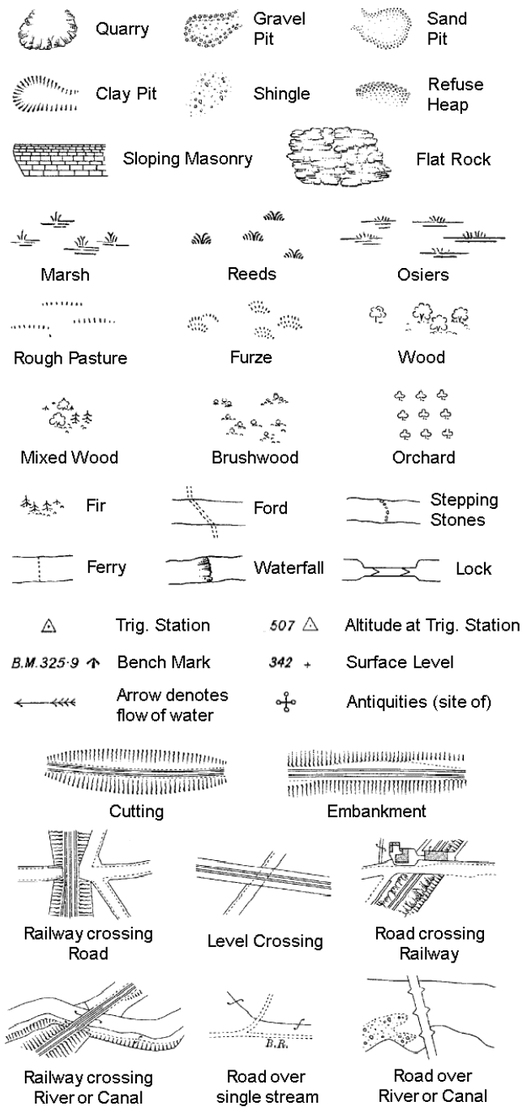
Site at, Derby, City of Derby

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Historical Mapping Legends

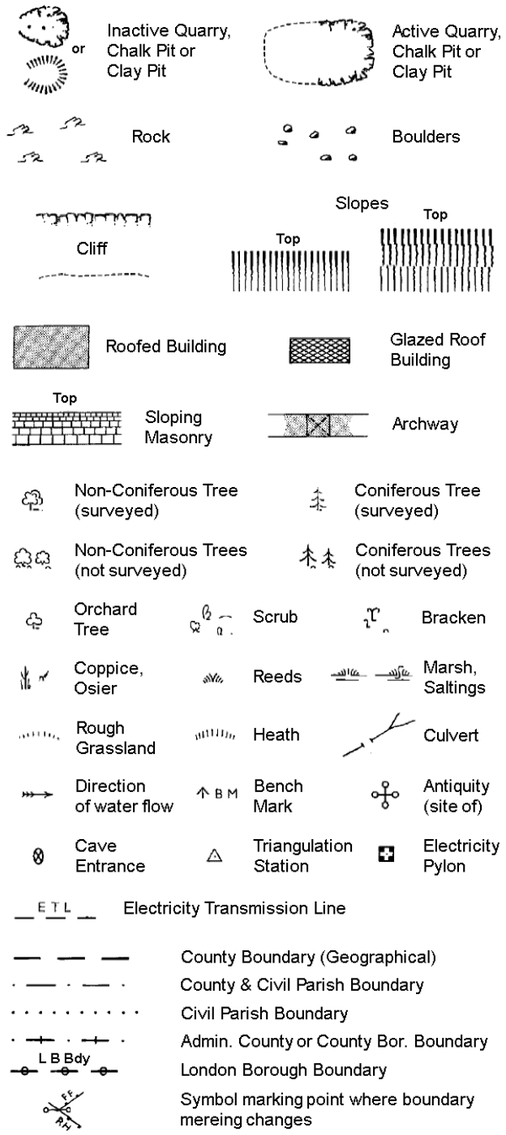
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

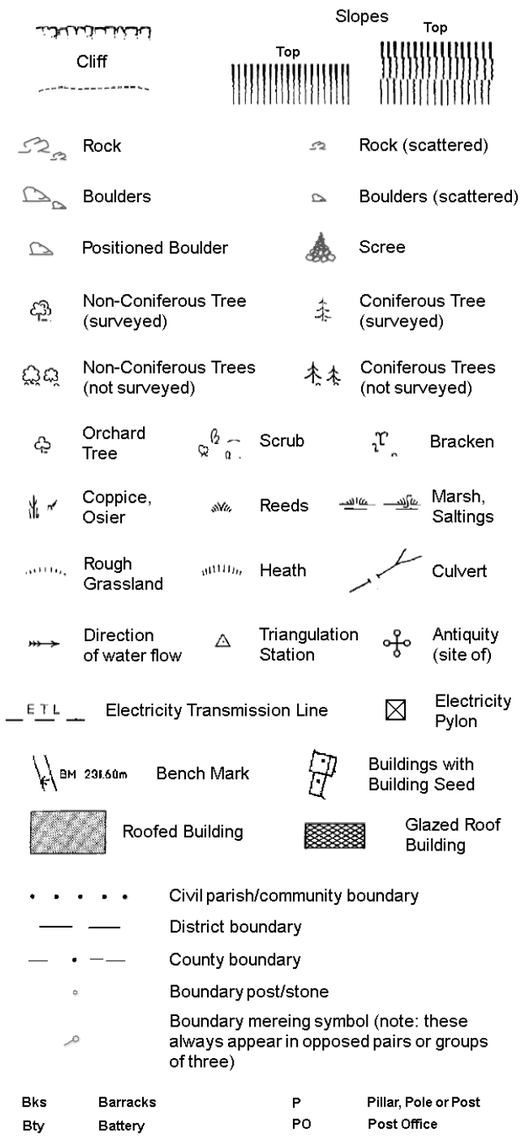
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

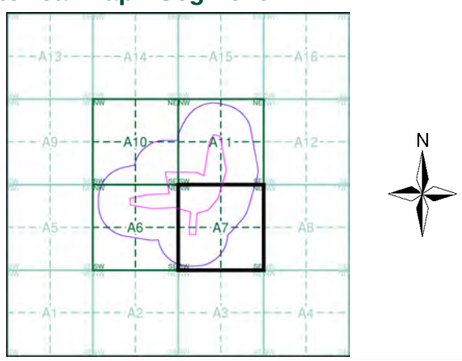
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1882	2
Derbyshire	1:2,500	1900	3
Derbyshire	1:2,500	1914	4
Derbyshire	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1961 - 1970	6
Ordnance Survey Plan	1:2,500	1970	7
Supply of Unpublished Survey Information	1:2,500	1973 - 1974	8
Supply of Unpublished Survey Information	1:2,500	1974 - 1976	9
Additional SIMs	1:2,500	1980 - 1984	10
Additional SIMs	1:2,500	1989 - 1990	11
Large-Scale National Grid Data	1:2,500	1993	12

Historical Map - Segment A7



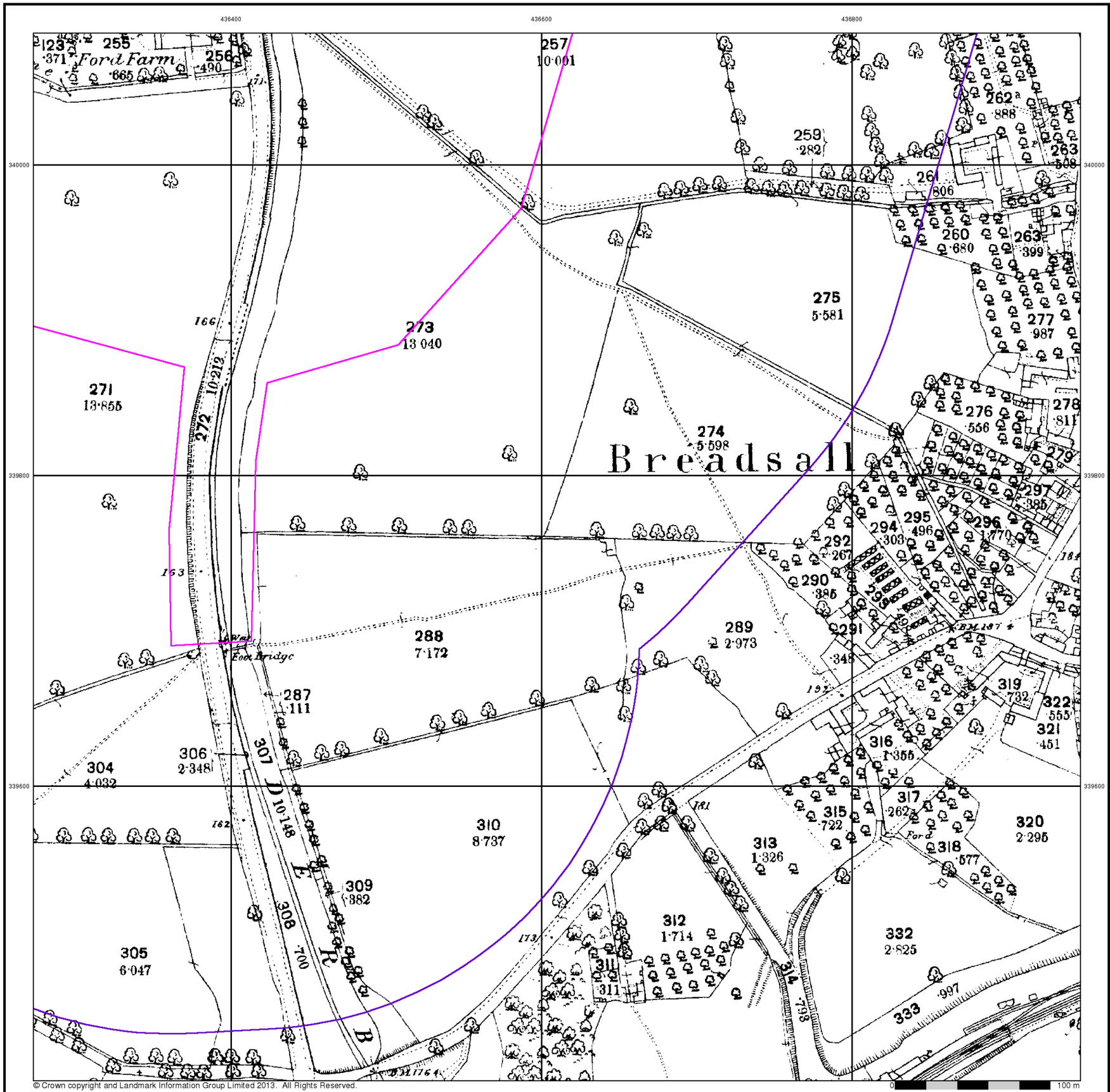
Order Details

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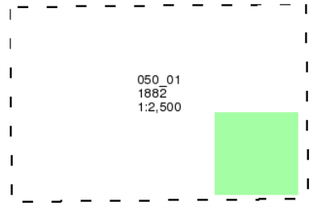
Derbyshire

Published 1882

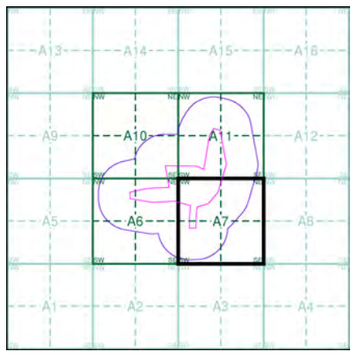
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



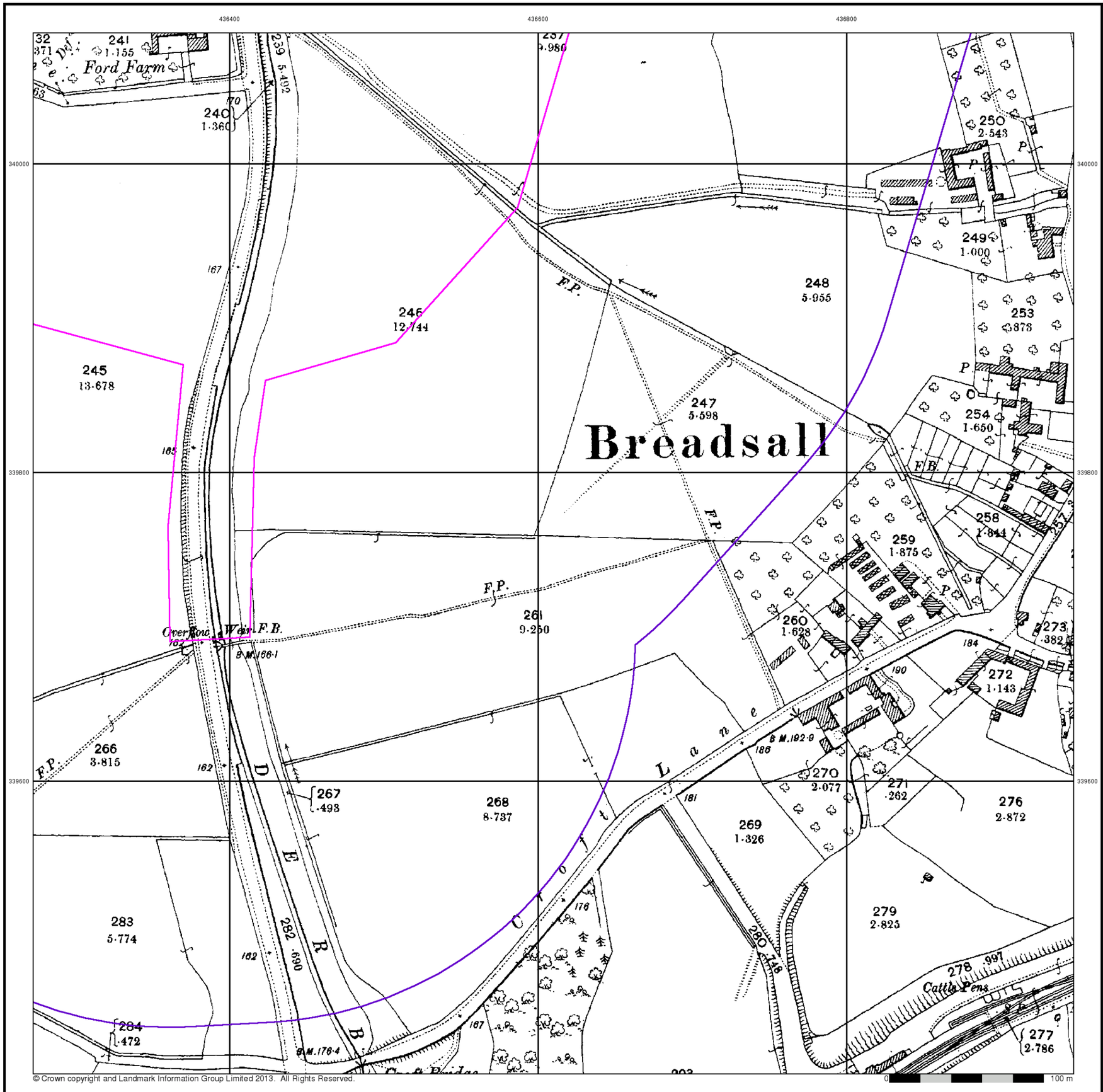
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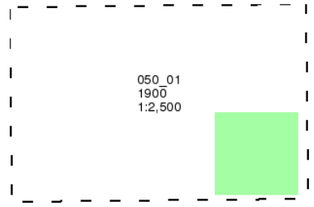
Derbyshire

Published 1900

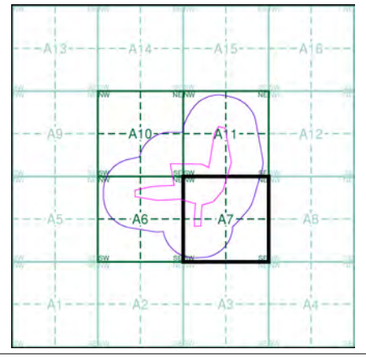
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A7



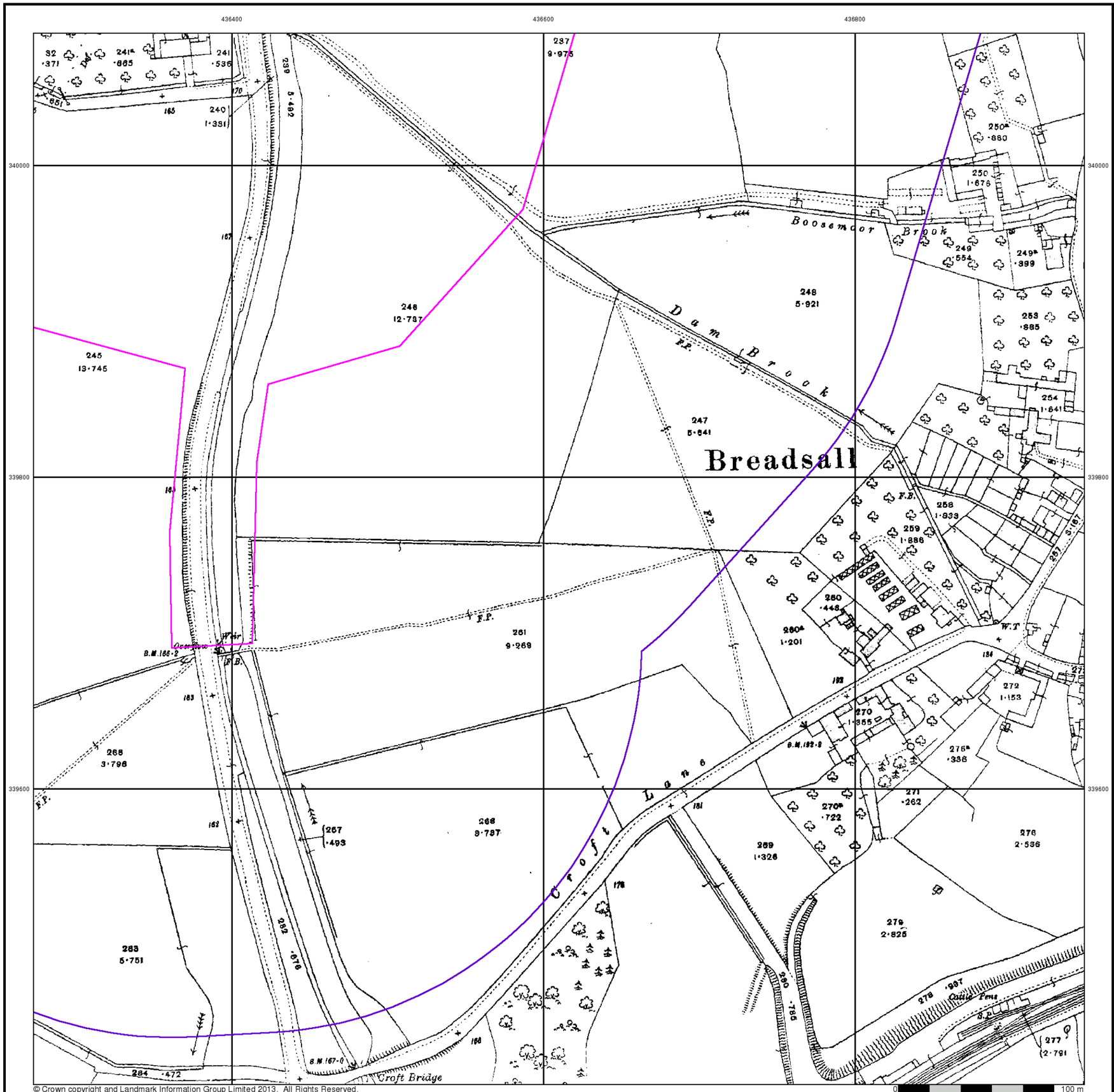
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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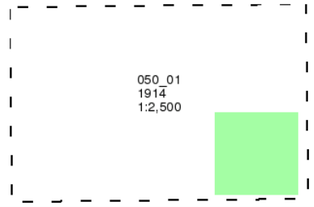
Derbyshire

Published 1914

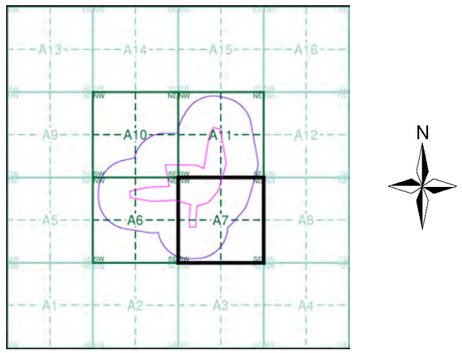
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



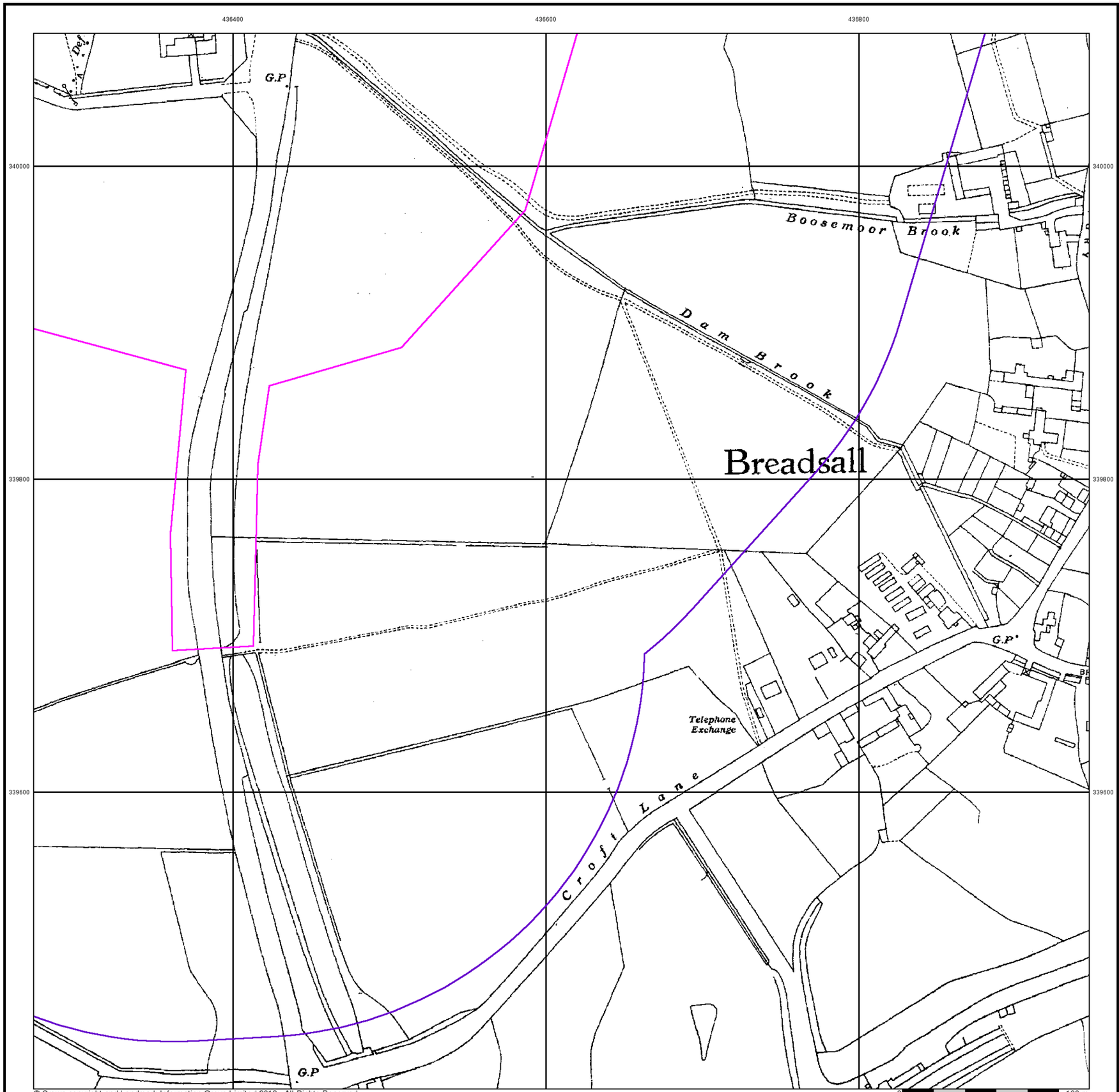
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
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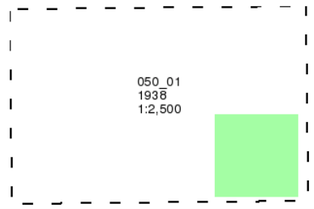
Derbyshire

Published 1938

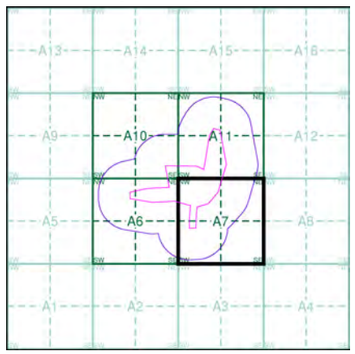
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

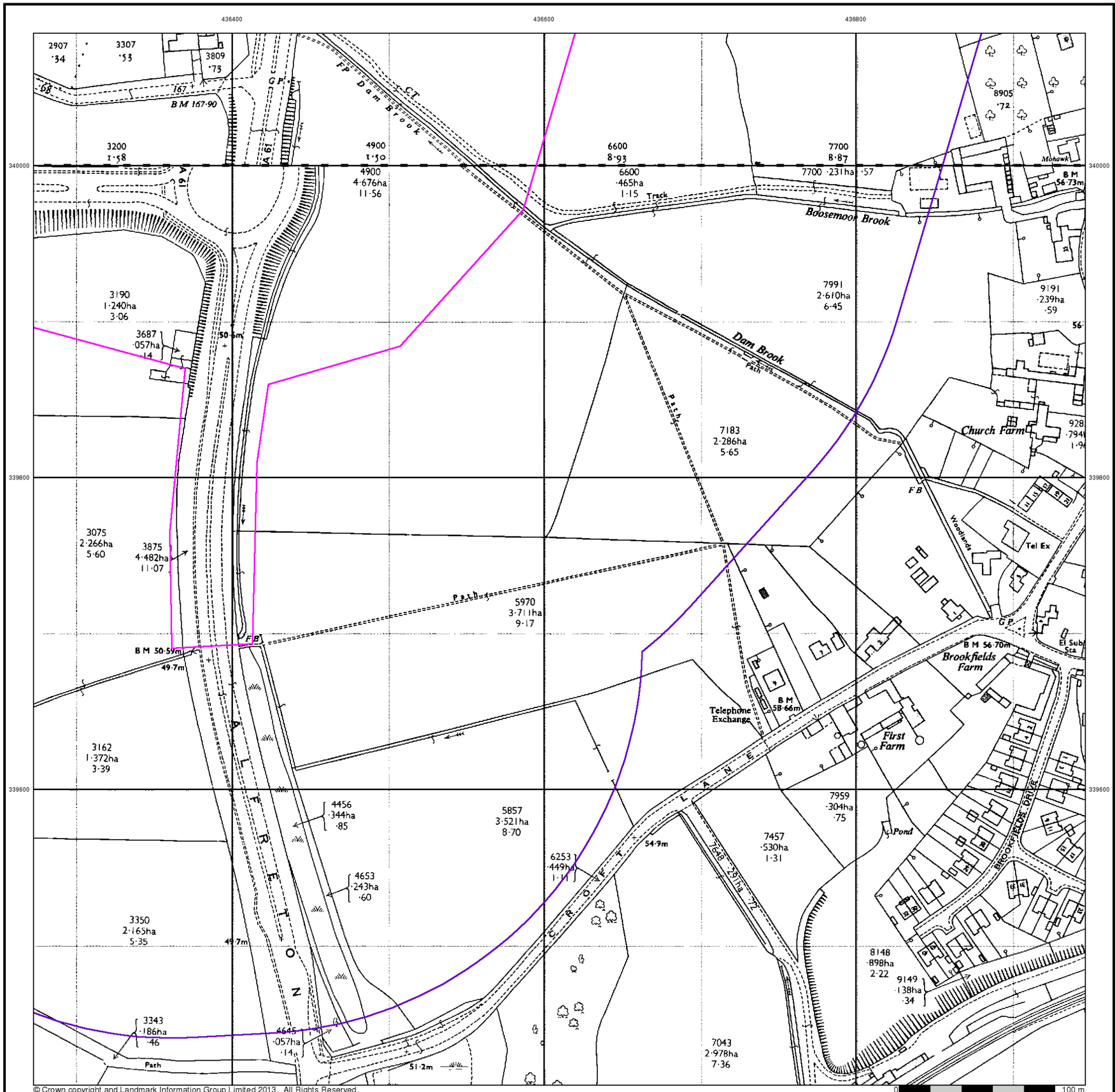
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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
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Ordnance Survey Plan

Published 1961 - 1970

Source map scale - 1:2,500

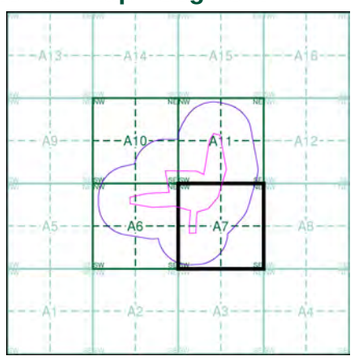
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SK3640
1961
1:2,500

SK3639
1970
1:2,500

Historical Map - Segment A7



Order Details

Order Number:	60386902_1_1
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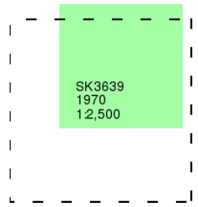
Ordnance Survey Plan

Published 1970

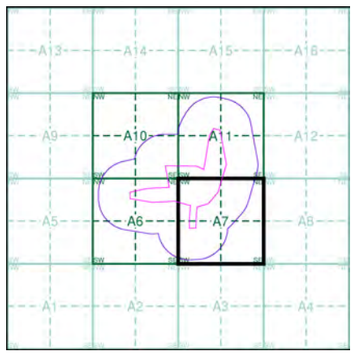
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A7



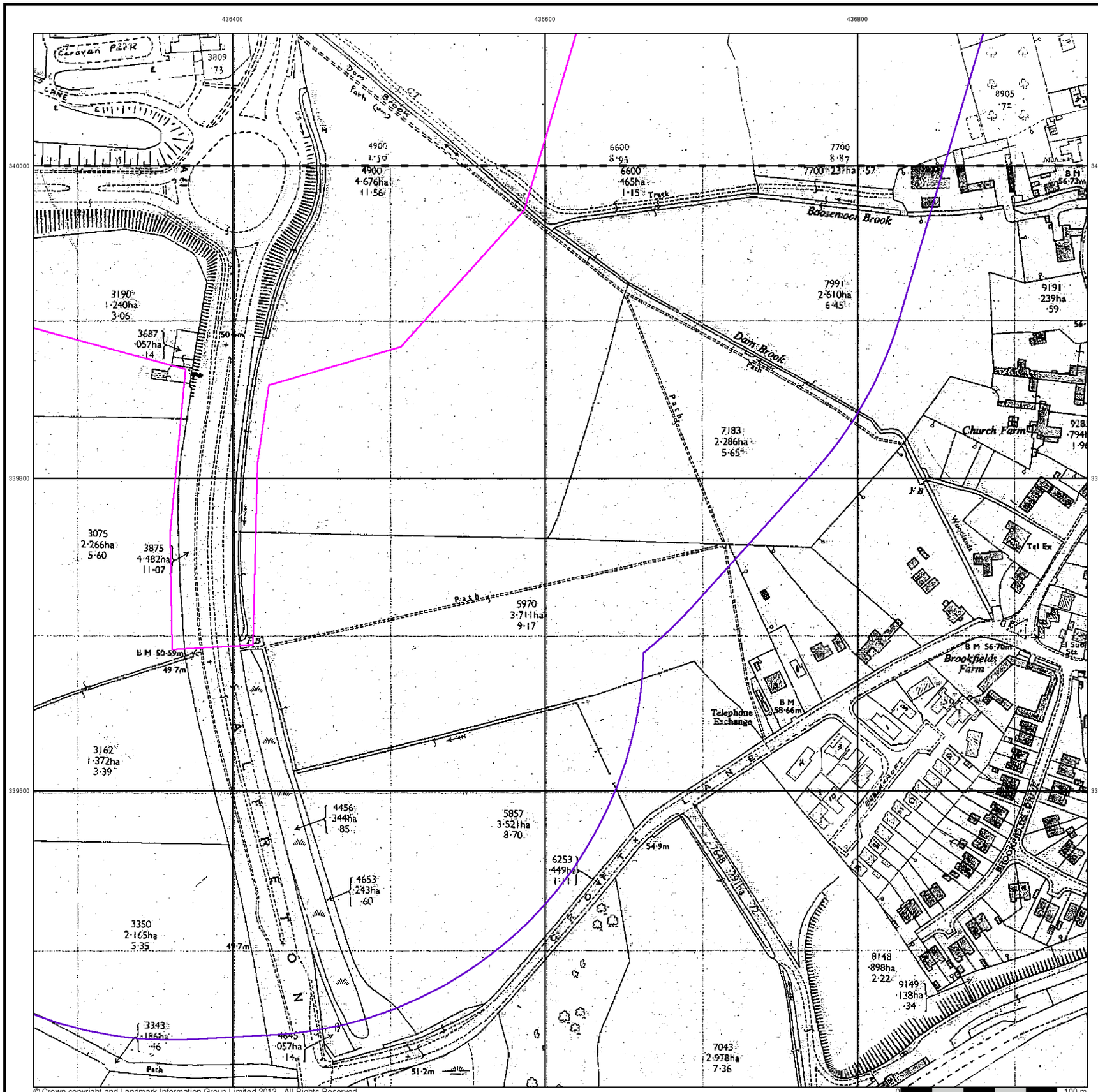
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Customer Ref:	47071637.208APS
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Supply of Unpublished Survey Information

Published 1973 - 1974

Source map scale - 1:2,500

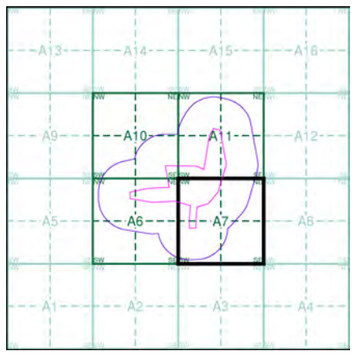
SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3640
1974
1:2,500

SK3639
1973
1:2,500

Historical Map - Segment A7



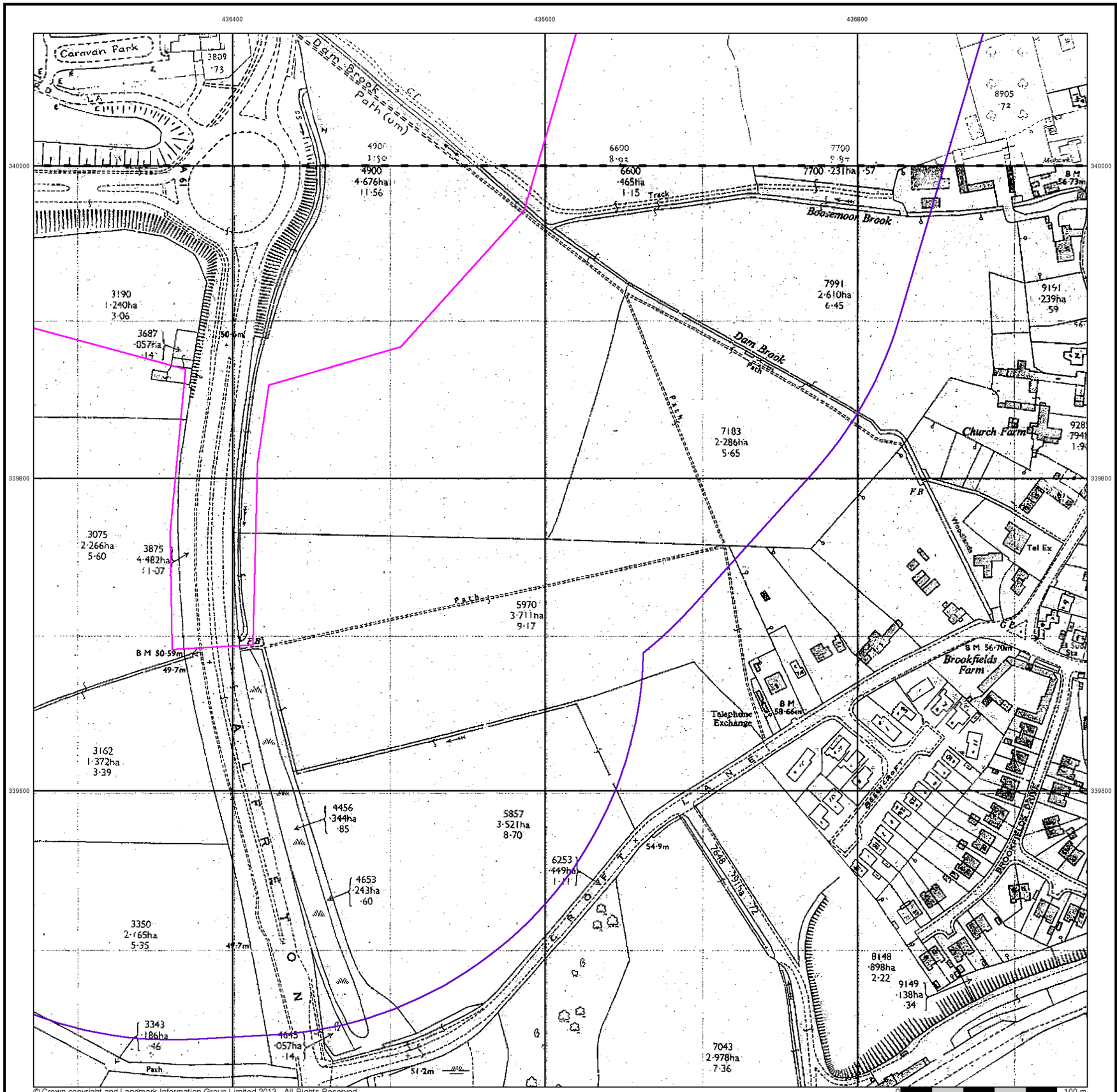
Order Details

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Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
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Supply of Unpublished Survey Information

Published 1974 - 1976

Source map scale - 1:2,500

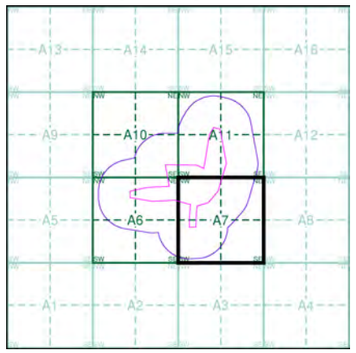
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Map Name(s) and Date(s)

SK3640
1976
1:2,500

SK3639
1974
1:2,500

Historical Map - Segment A7



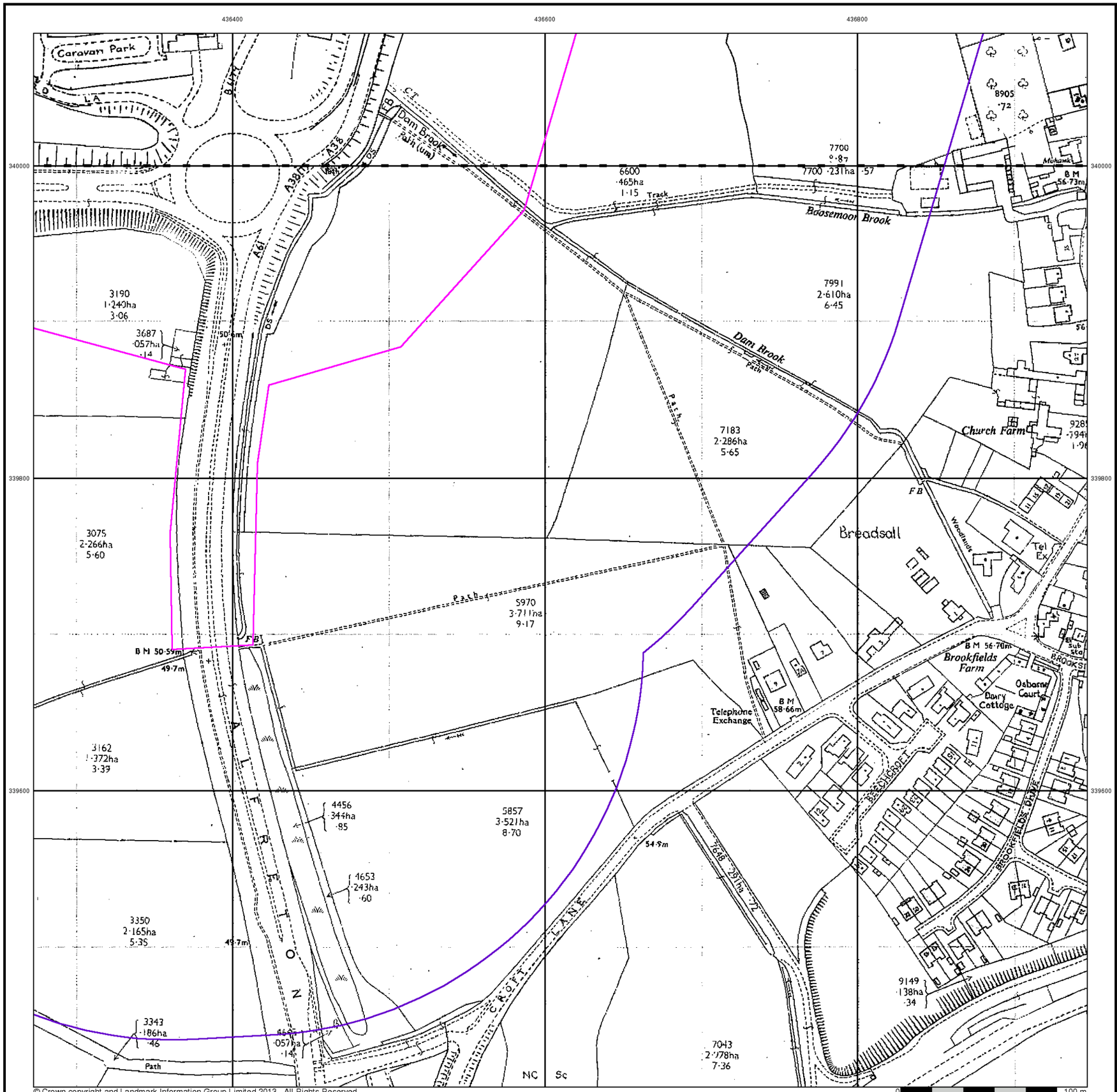
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National Grid Reference:	436330, 340070
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Site Area (Ha):	19.55
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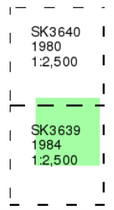
Additional SIMs

Published 1980 - 1984

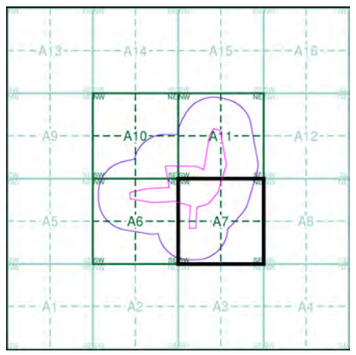
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A7



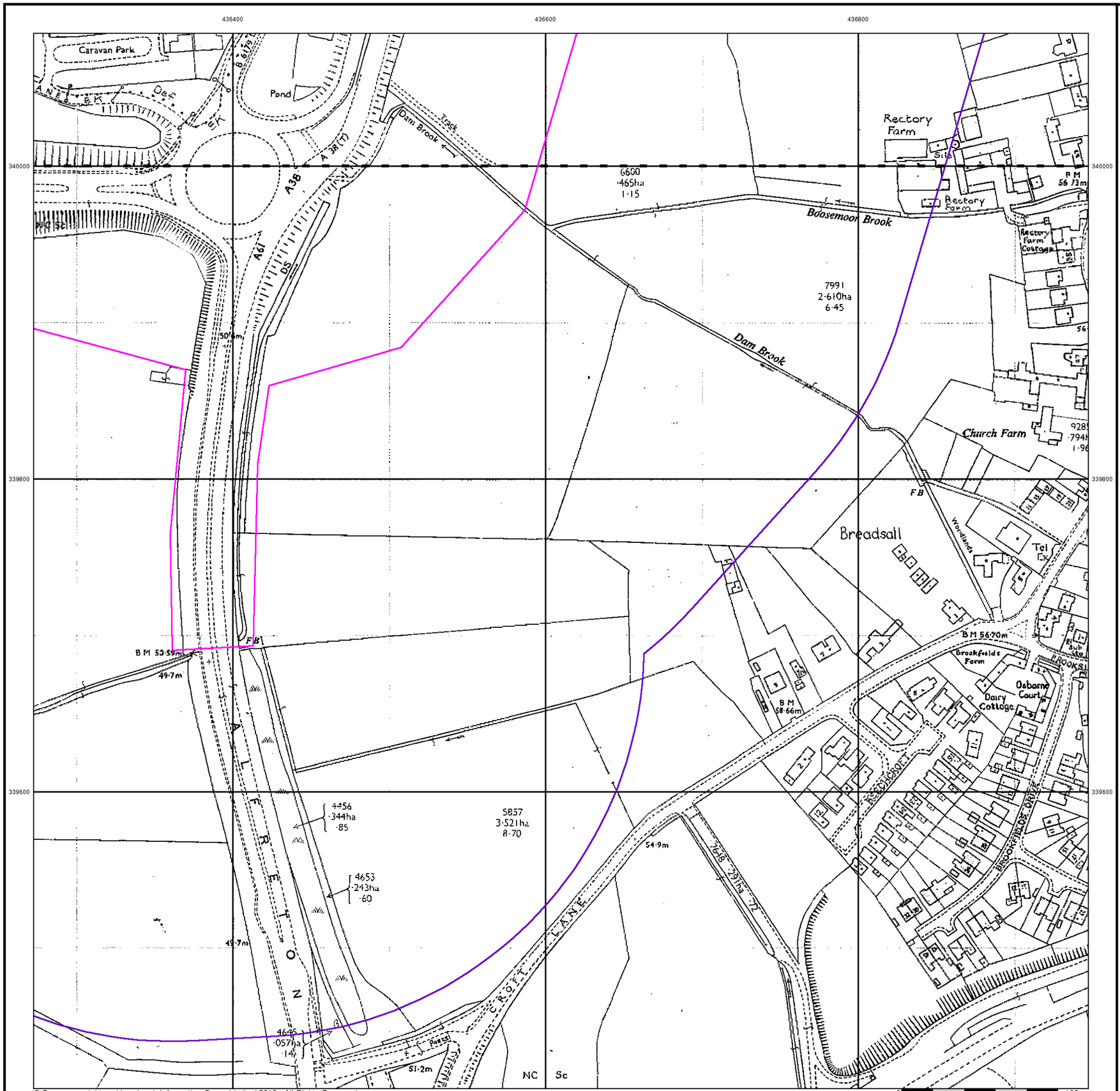
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Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	250

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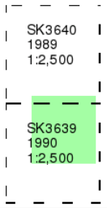
Additional SIMs

Published 1989 - 1990

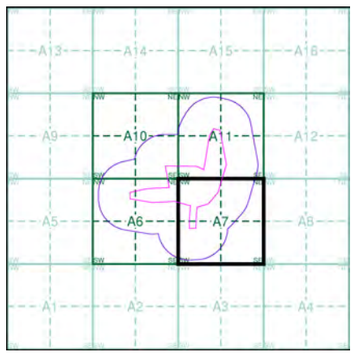
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

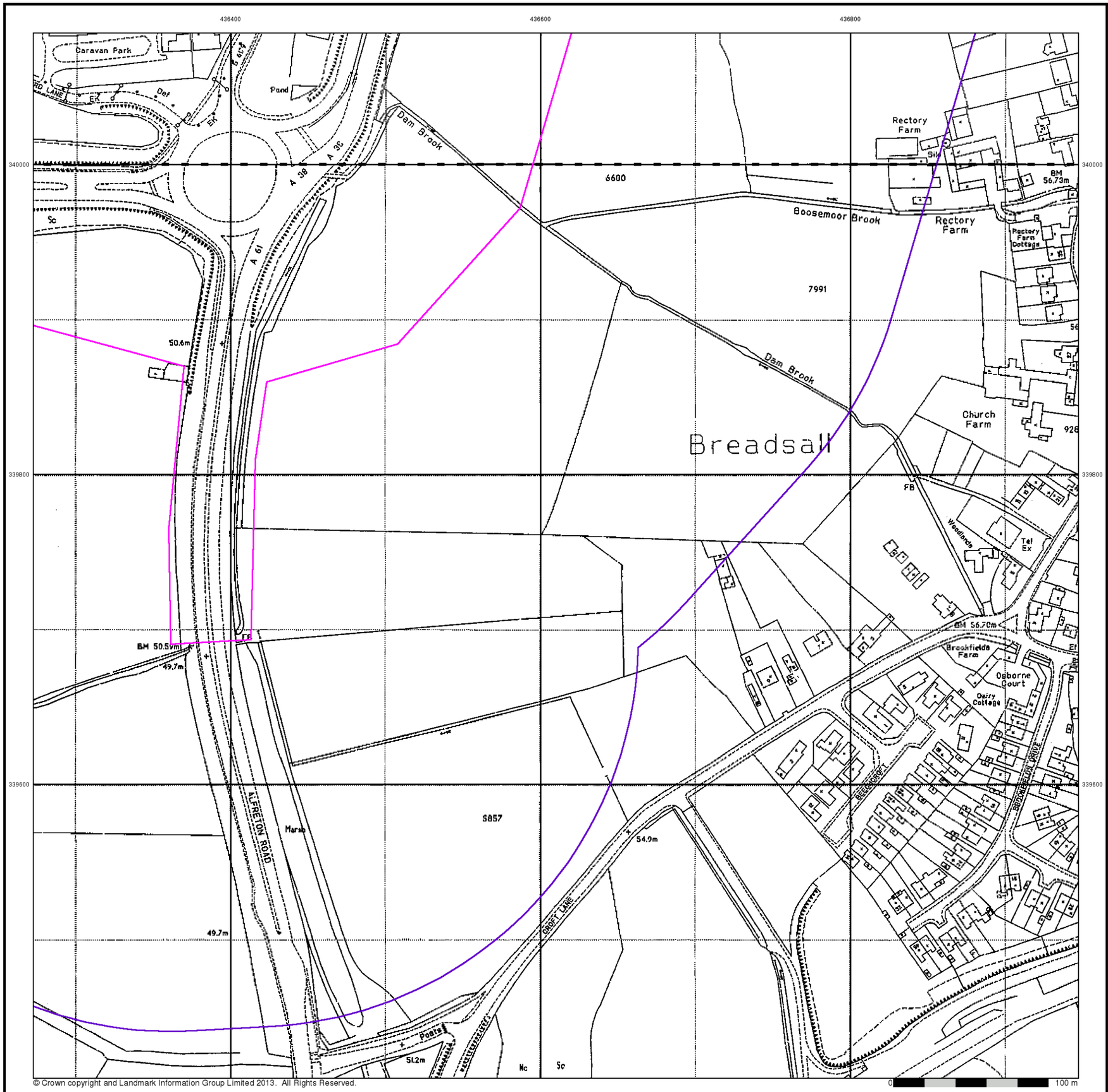
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Large-Scale National Grid Data

Published 1993

Source map scale - 1:2,500

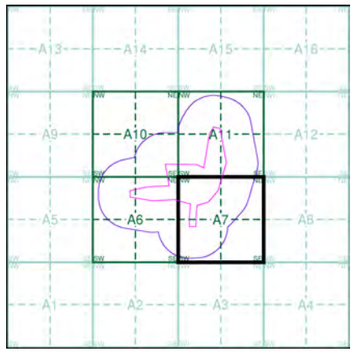
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3640
1993
1:2,500

SK3639
1993
1:2,500

Historical Map - Segment A7



Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
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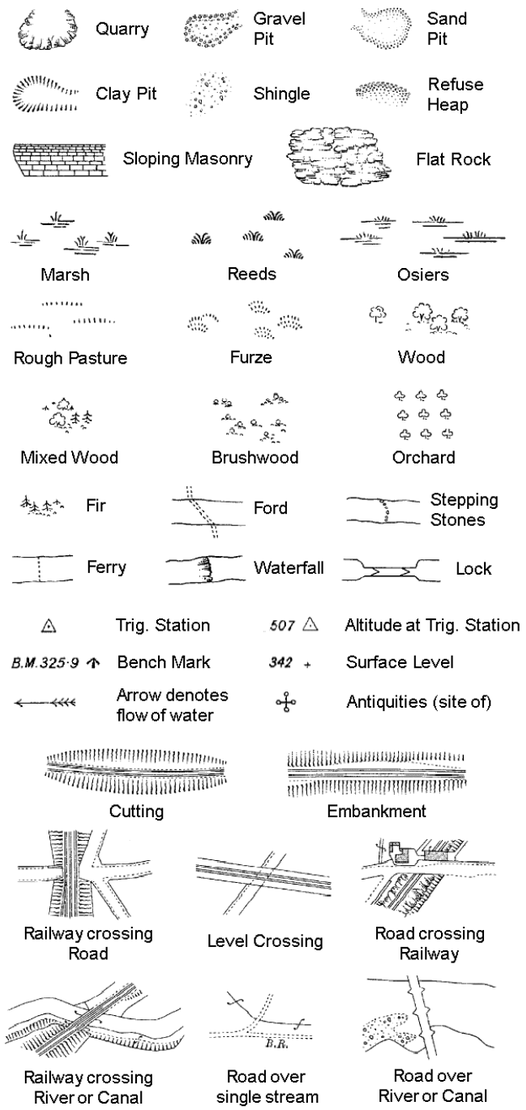
Site Details

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Historical Mapping Legends

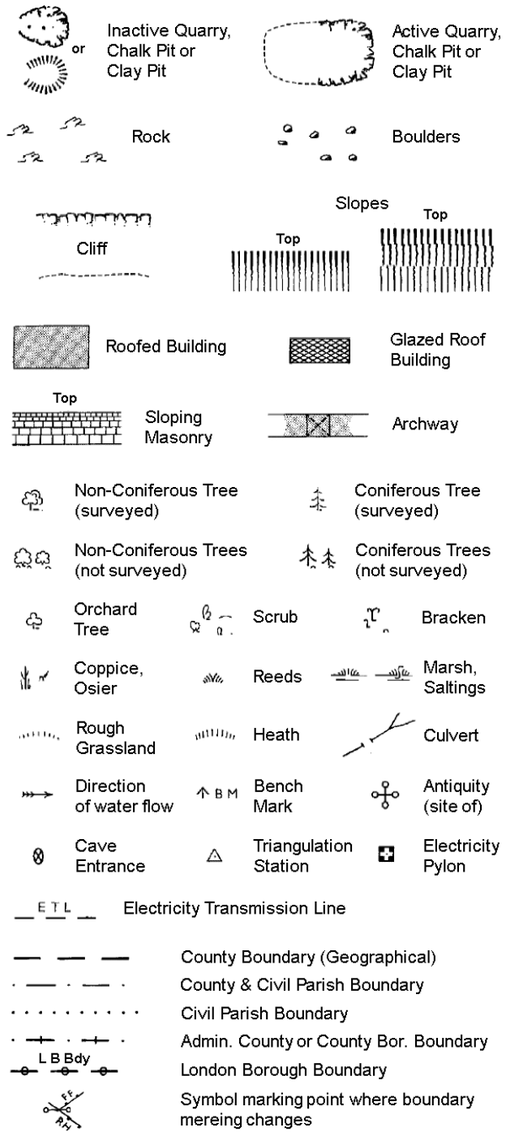
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

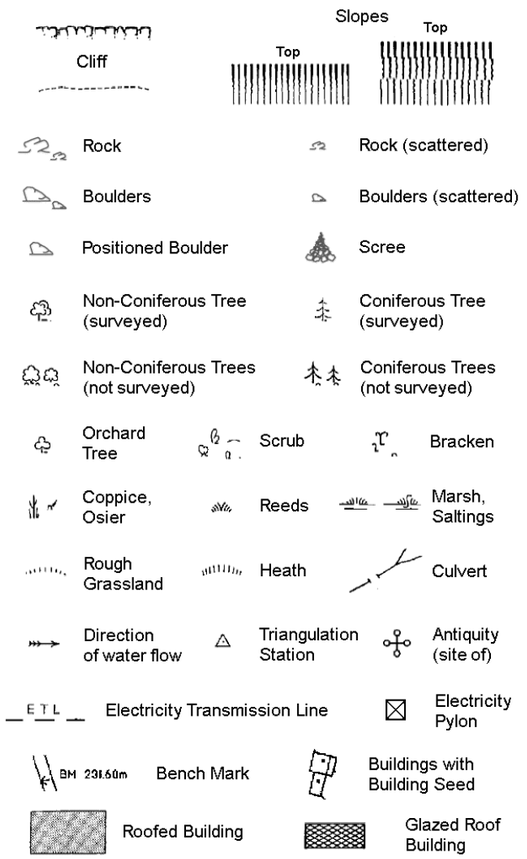
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

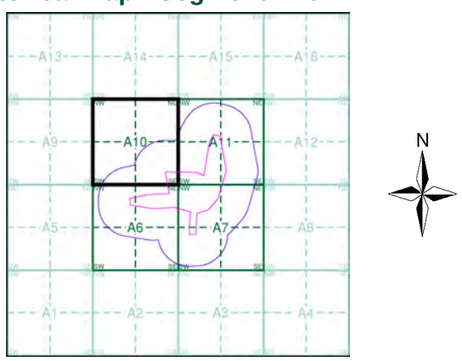
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1882	2
Derbyshire	1:2,500	1900	3
Derbyshire	1:2,500	1914	4
Derbyshire	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1961 - 1968	6
Supply of Unpublished Survey Information	1:2,500	1974	7
Supply of Unpublished Survey Information	1:2,500	1976	8
Additional SIMs	1:2,500	1980	9
Ordnance Survey Plan	1:1,250	1982	10
Additional SIMs	1:1,250	1982	11
Additional SIMs	1:1,250	1989	12
Additional SIMs	1:2,500	1989	13
Large-Scale National Grid Data	1:2,500	1993	14
Large-Scale National Grid Data	1:1,250	1993	15

Historical Map - Segment A10



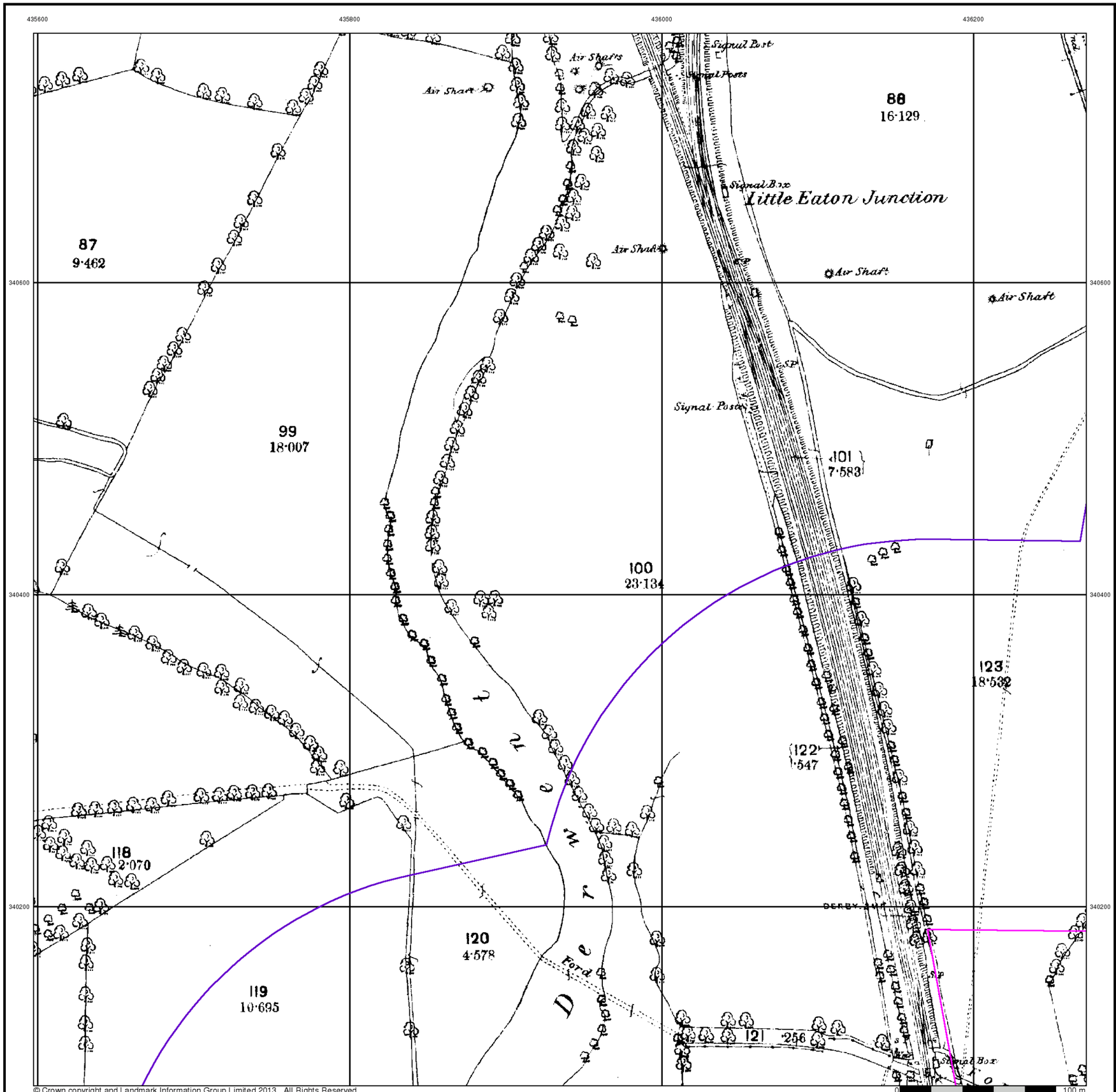
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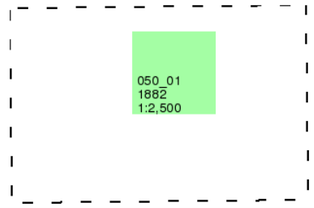
Derbyshire

Published 1882

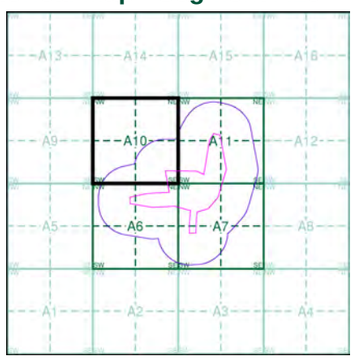
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A10



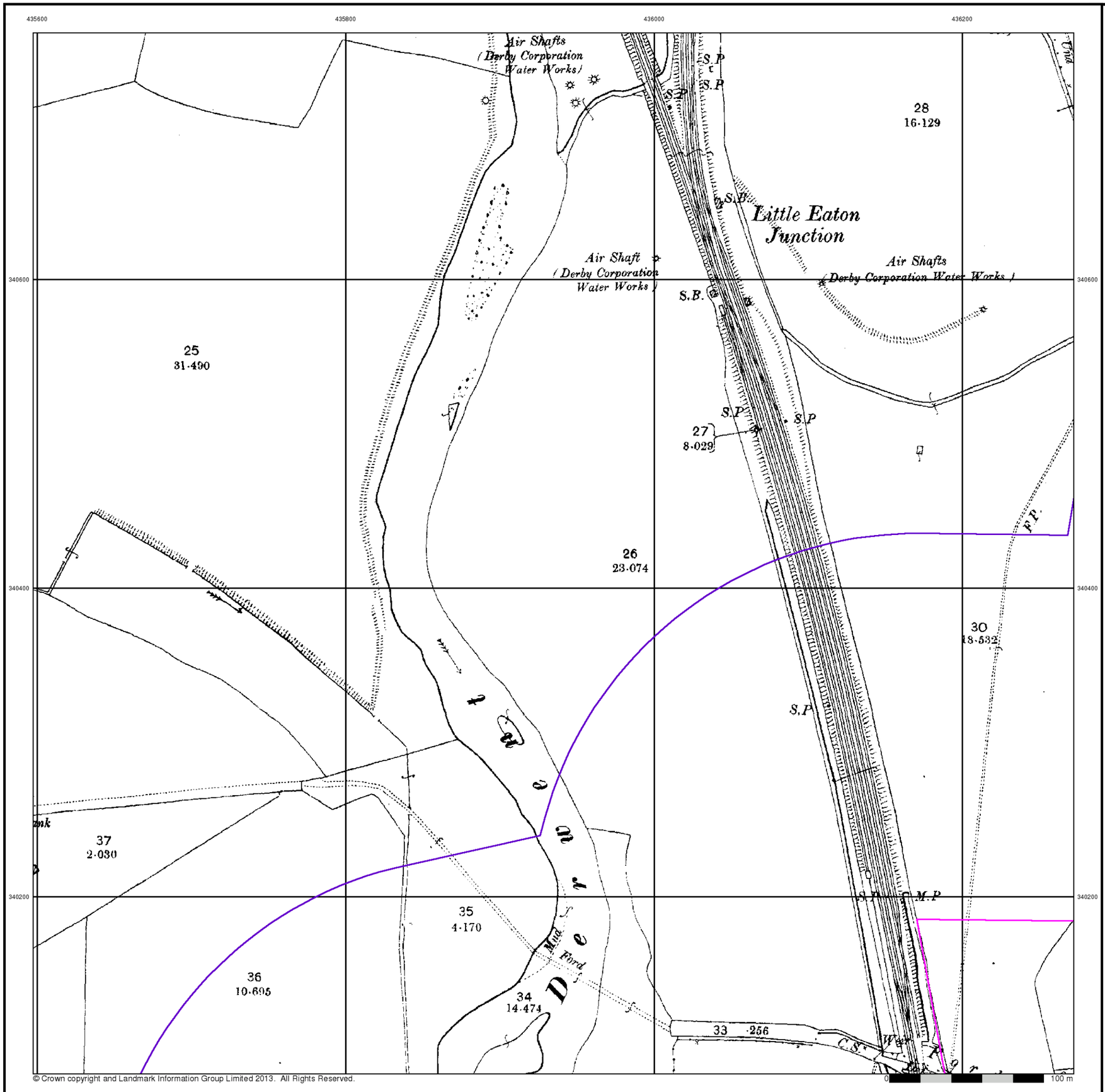
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Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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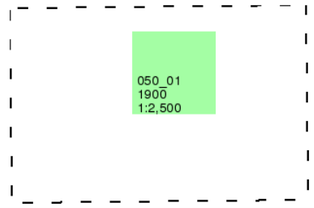
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Published 1900

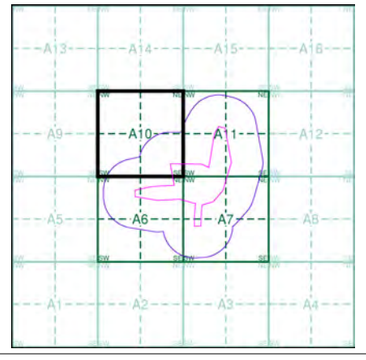
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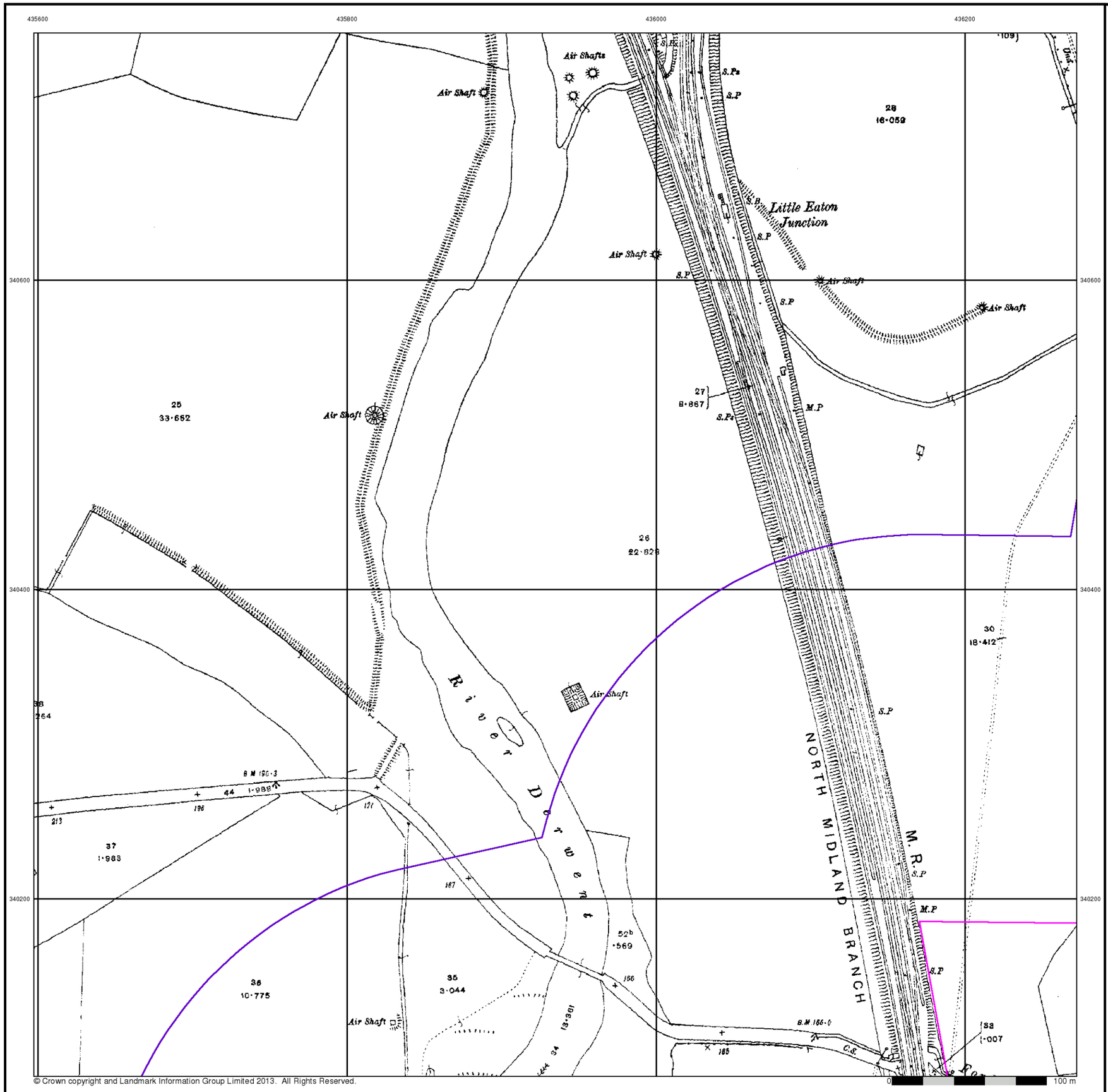
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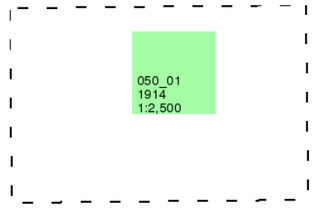
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Published 1914

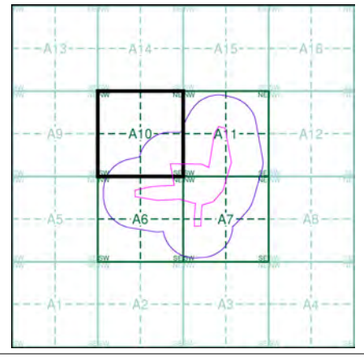
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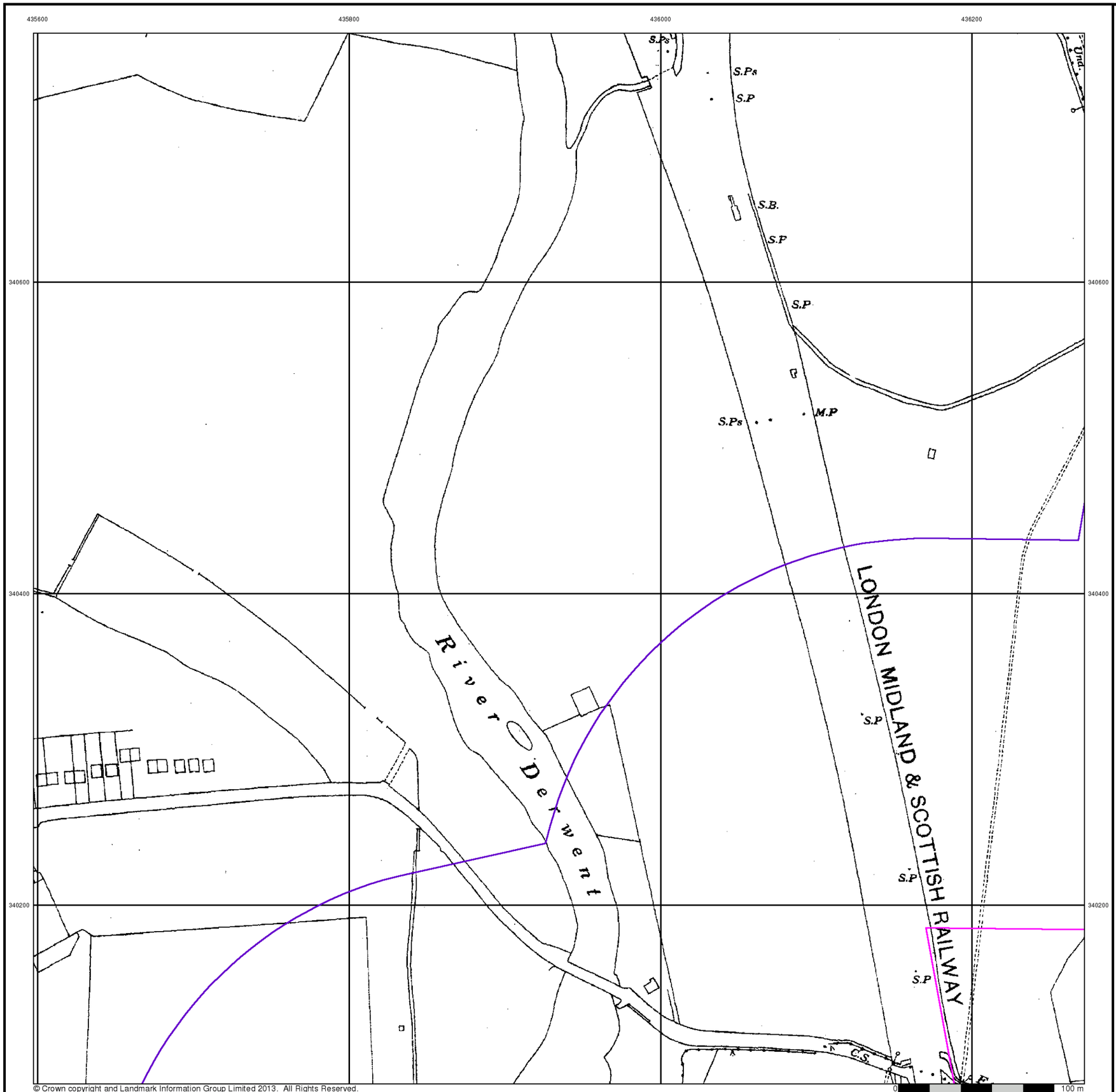
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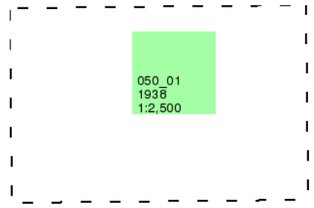
Derbyshire

Published 1938

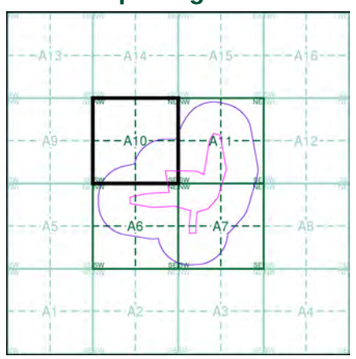
Source map scale - 1:2,500

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Historical Map - Segment A10



Order Details

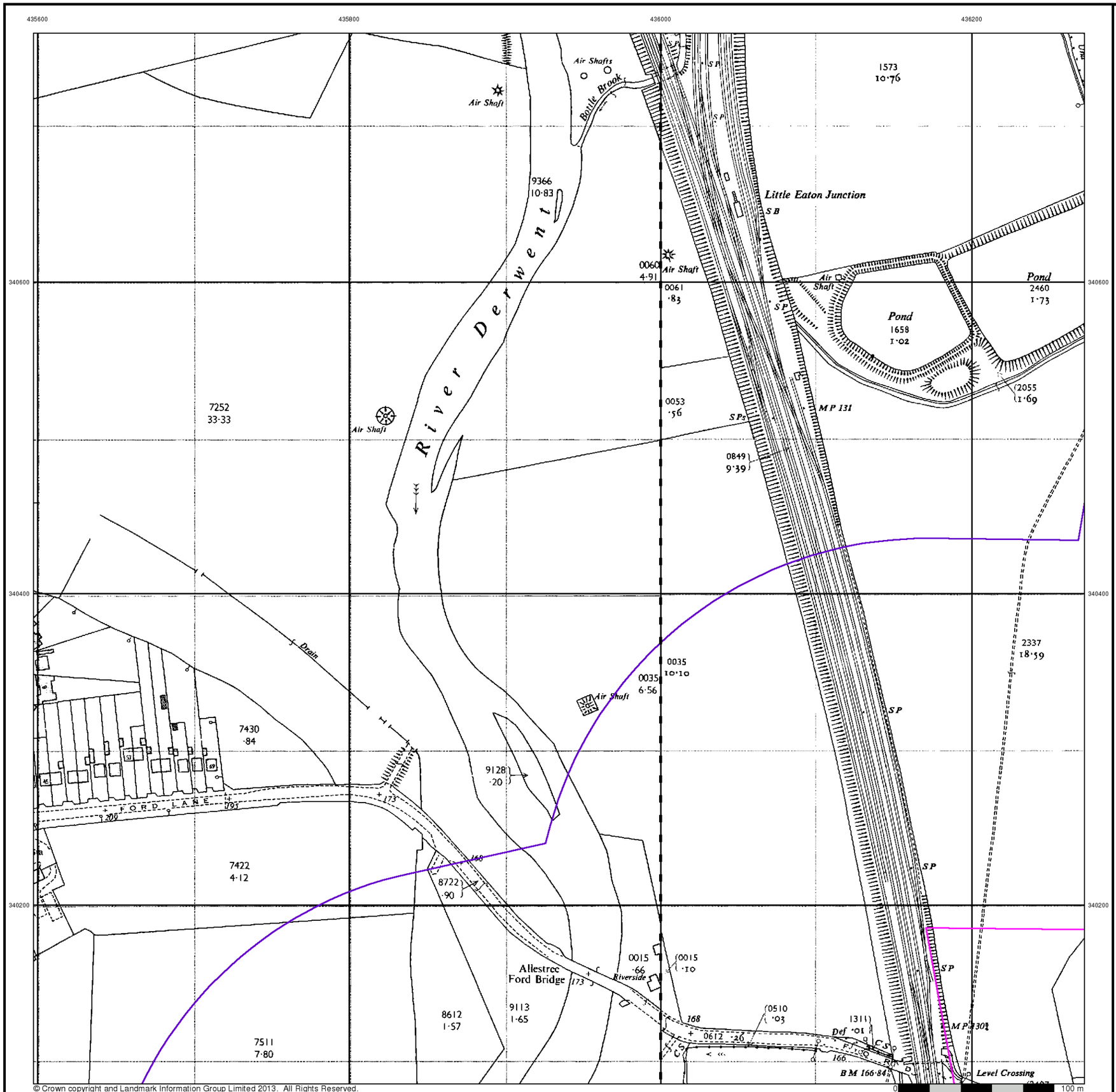
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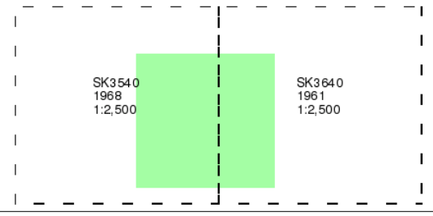
Ordnance Survey Plan

Published 1961 - 1968

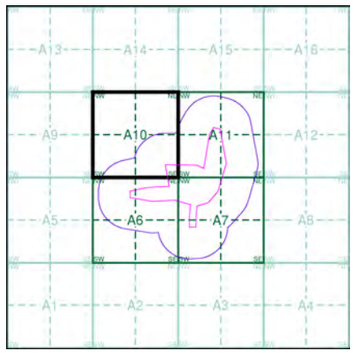
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435600 435800 436000 436200

340600 340400 340200

Little Eaton Junction

Pond
1658
1·02

Pond
2480
1·73

Air Shaft

Refuse Tip

Farm Lane

Fourways

M P 131

M P 130

B M 146·4m

0 100 m

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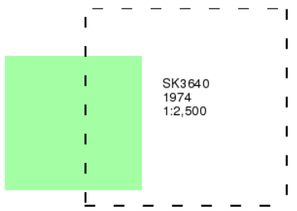
Supply of Unpublished Survey Information

Published 1974

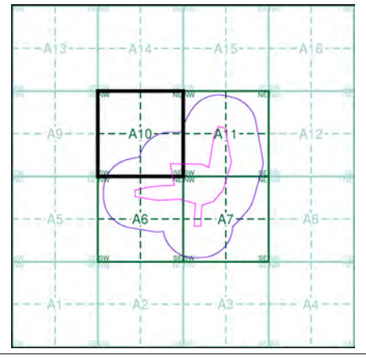
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



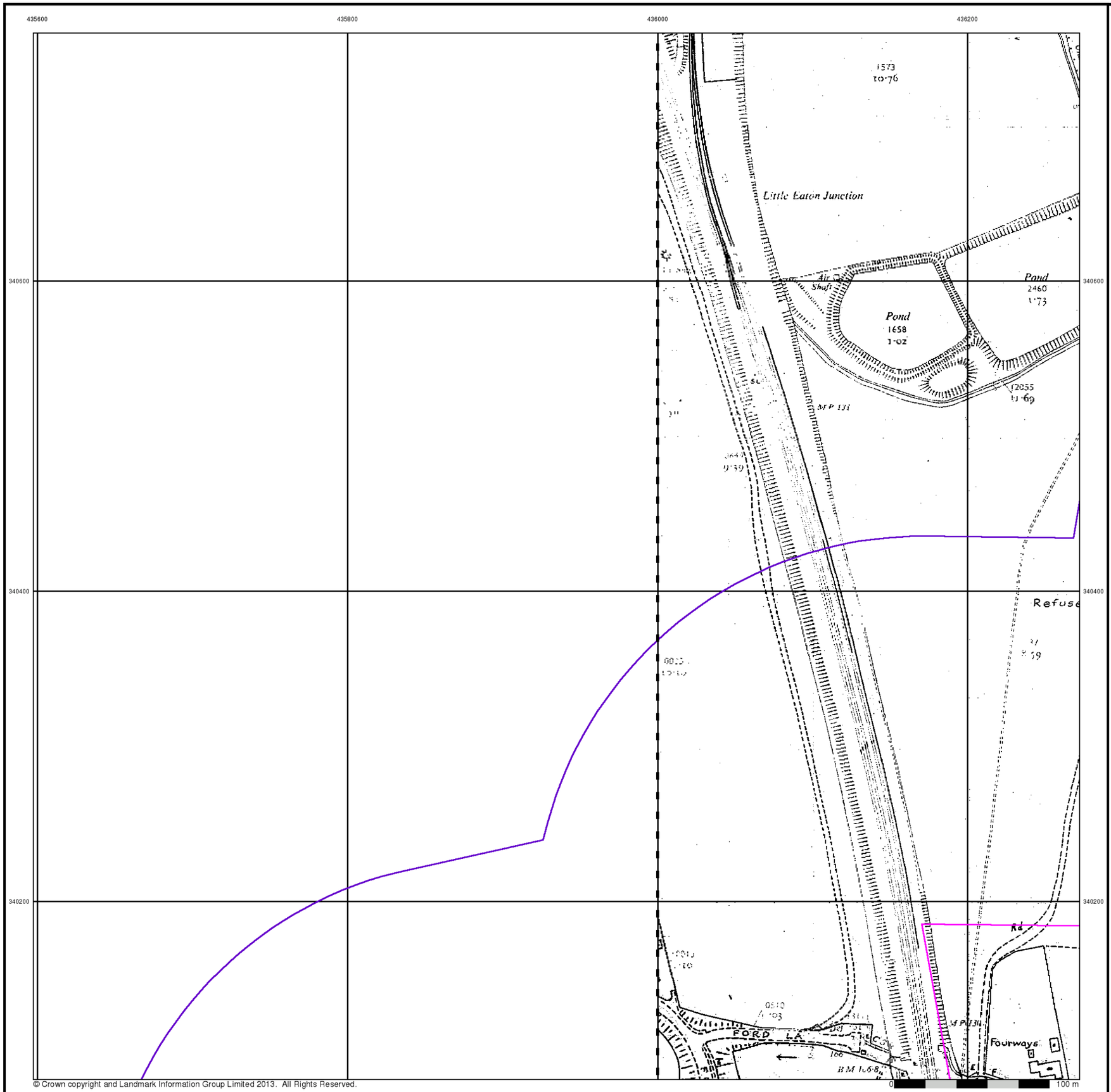
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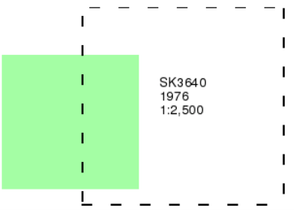
Supply of Unpublished Survey Information

Published 1976

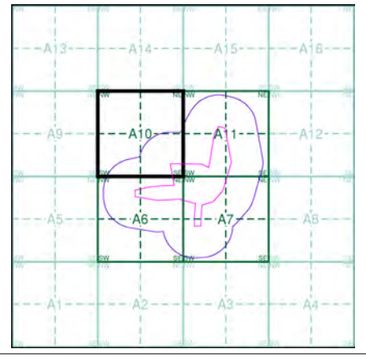
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A10



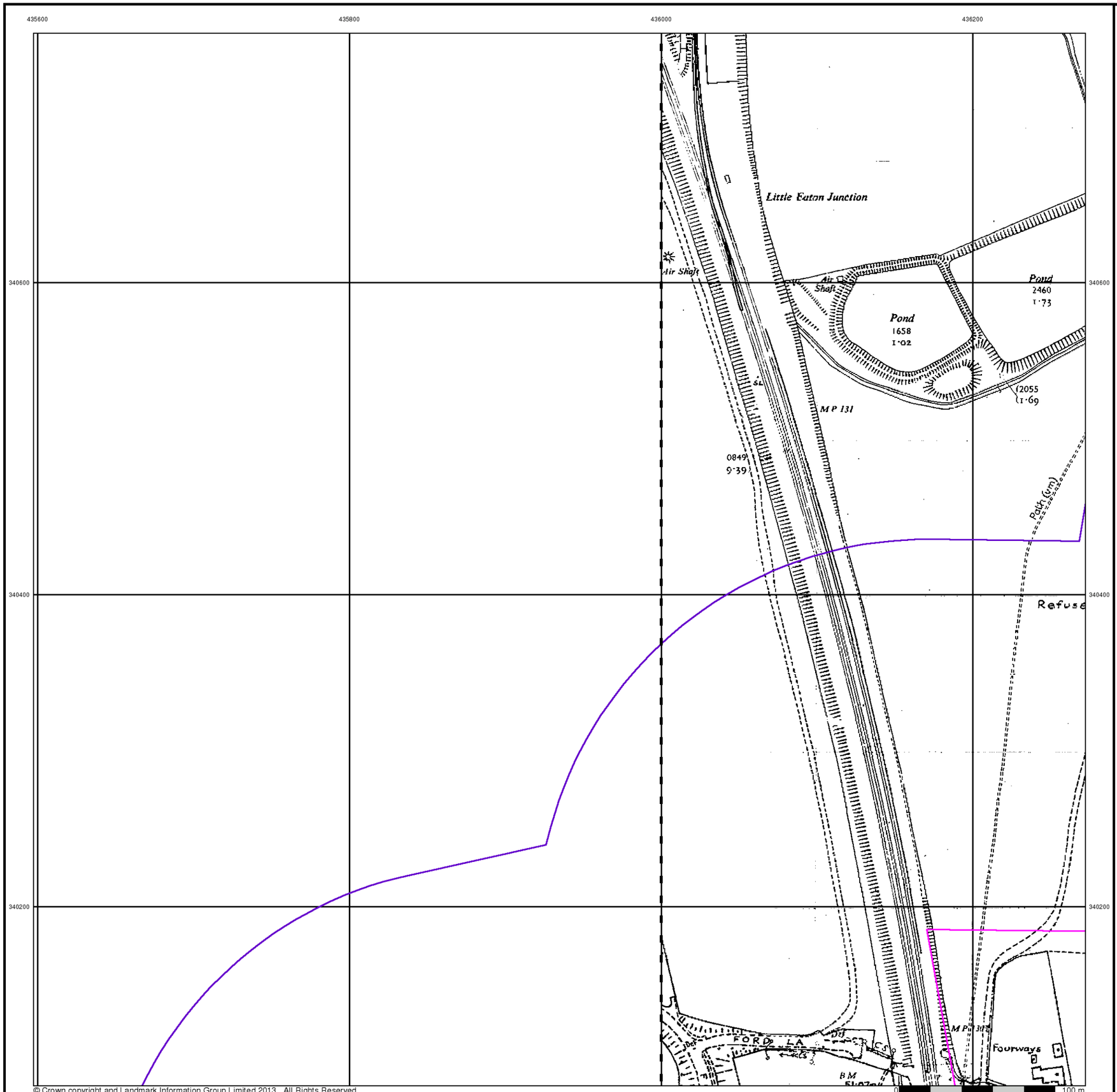
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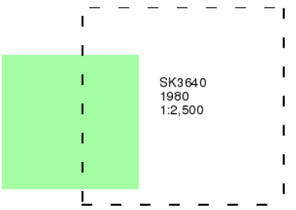
Additional SIMs

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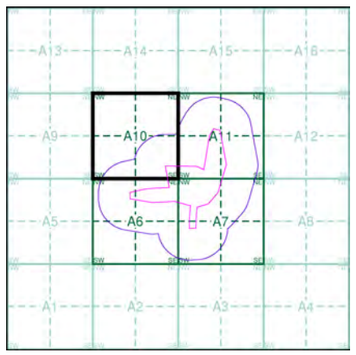
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A10



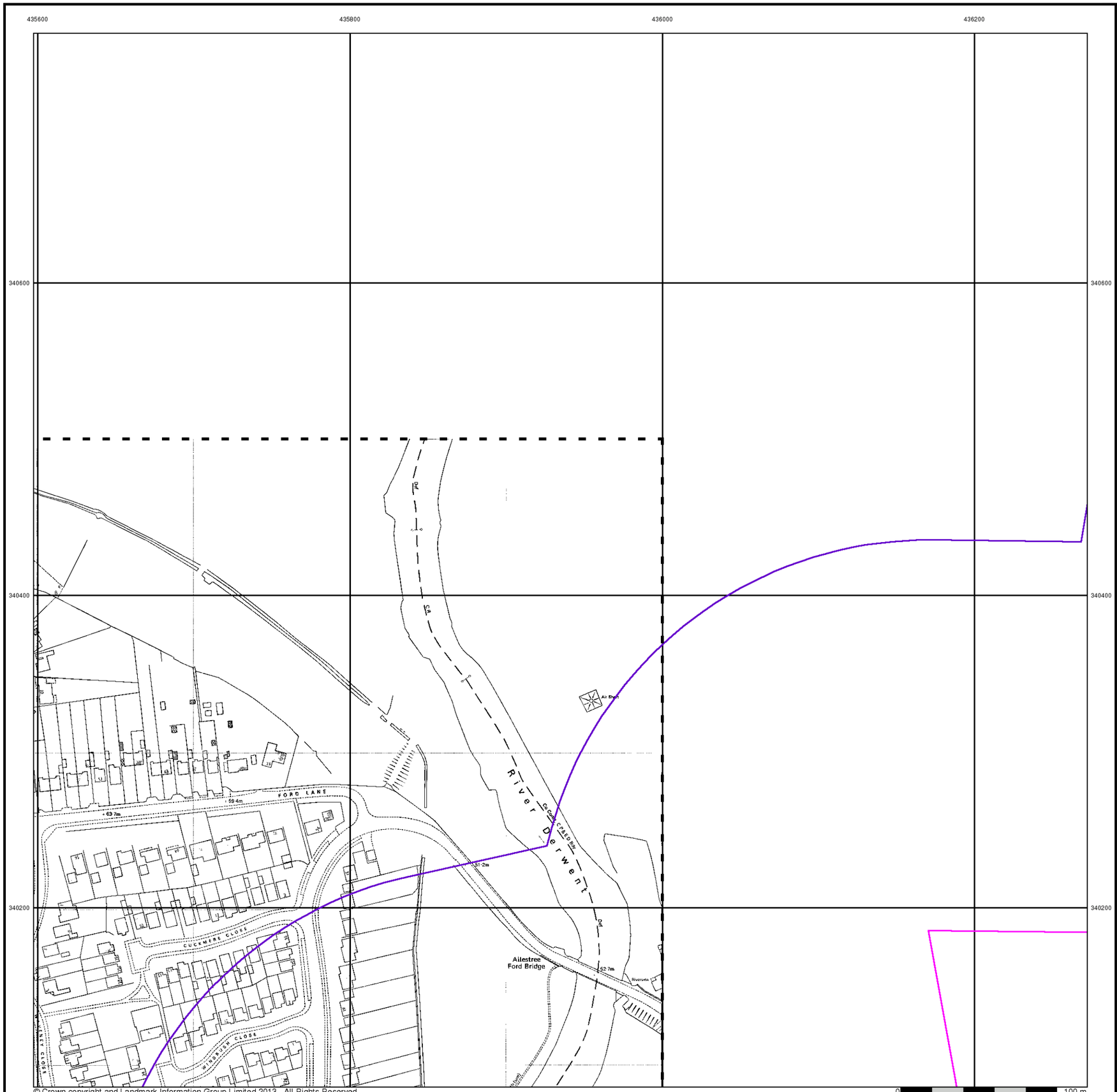
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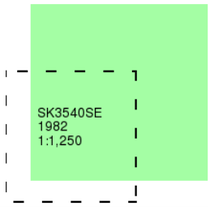
Ordnance Survey Plan

Published 1982

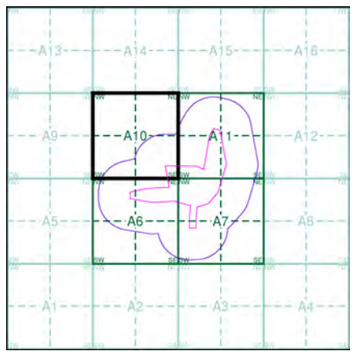
Source map scale - 1:1,250

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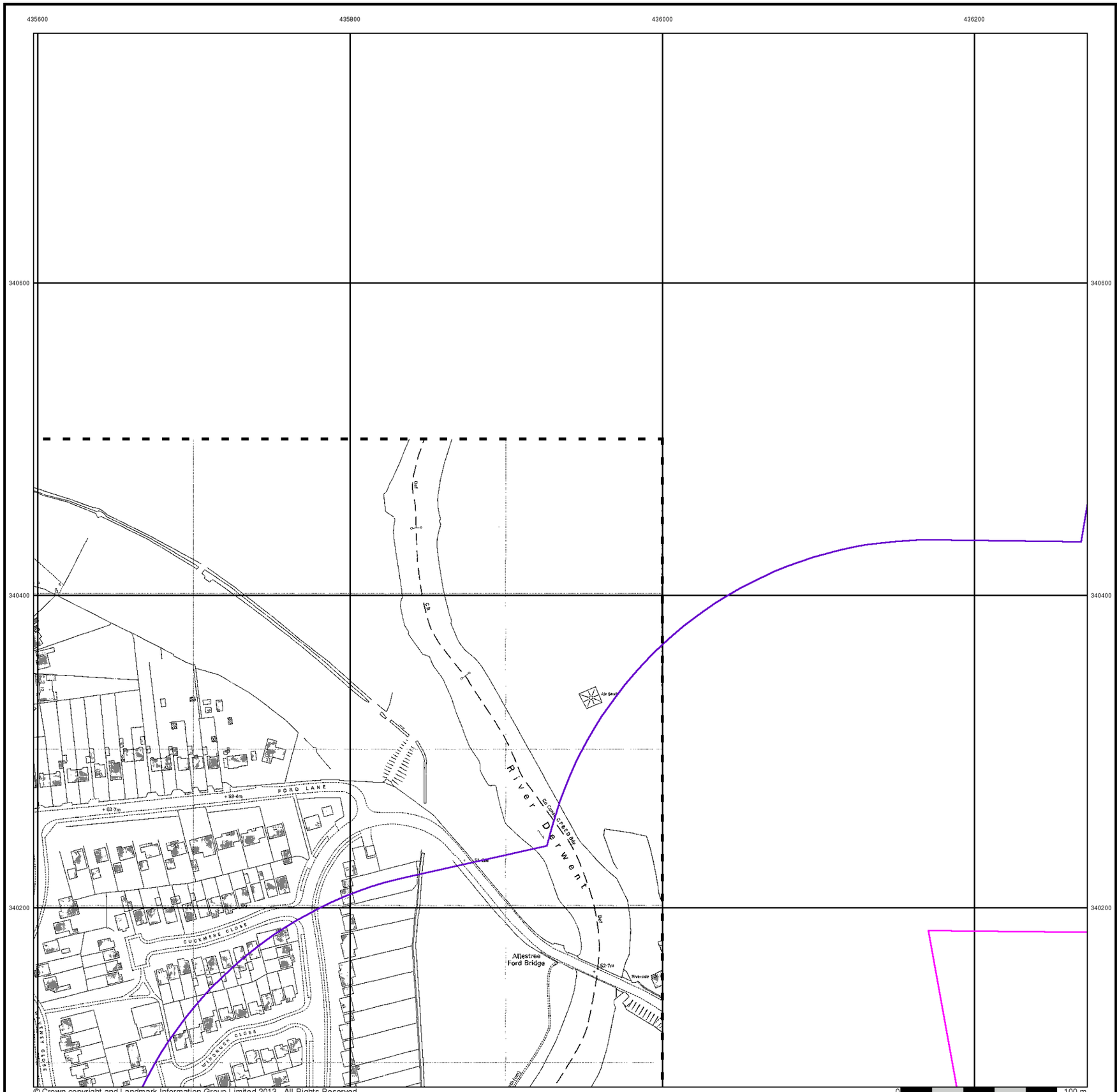
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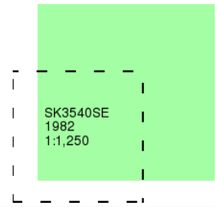
Additional SIMs

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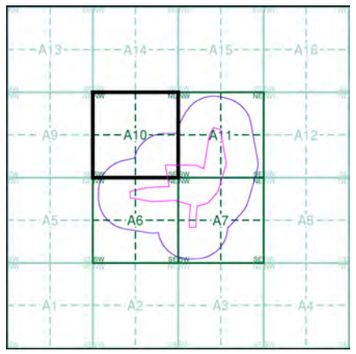
Source map scale - 1:1,250

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Historical Map - Segment A10



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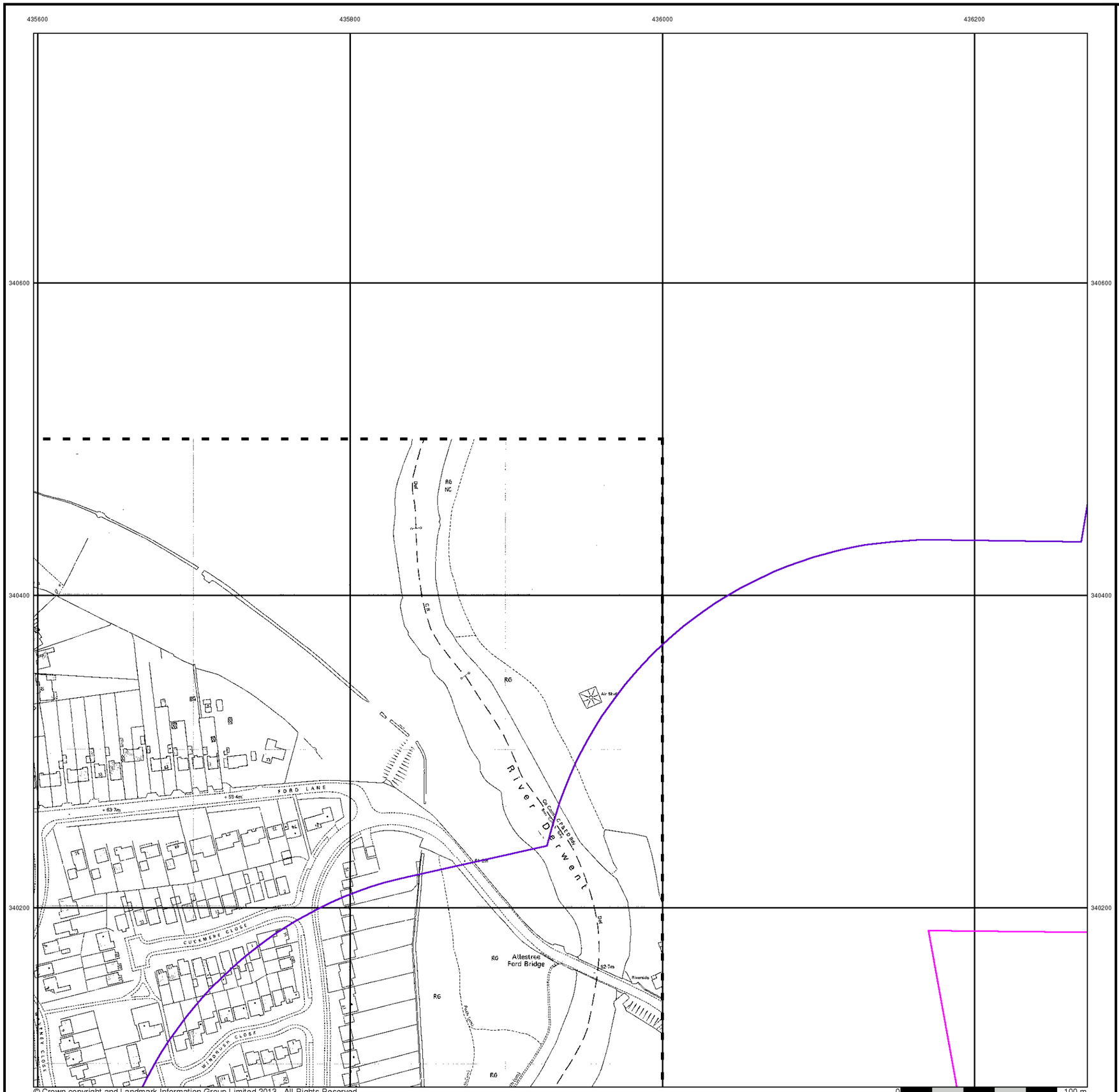
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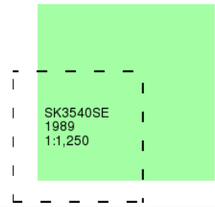
Additional SIMs

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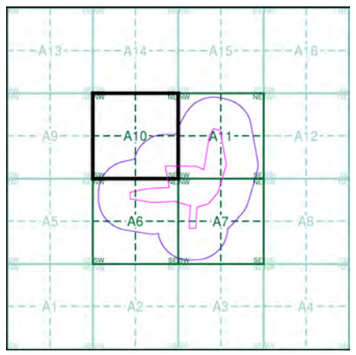
Source map scale - 1:1,250

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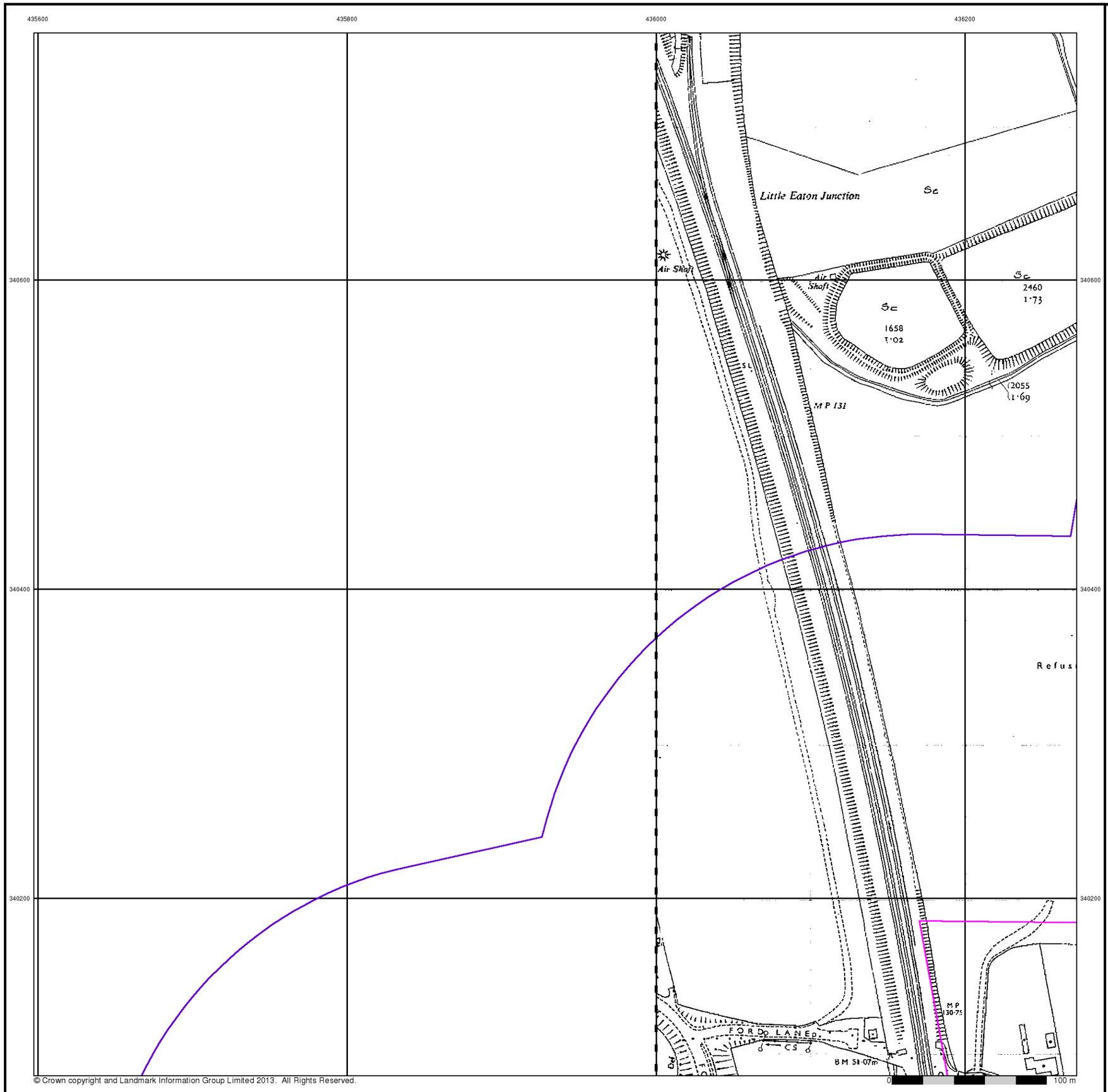
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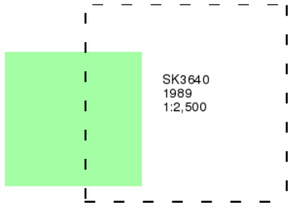
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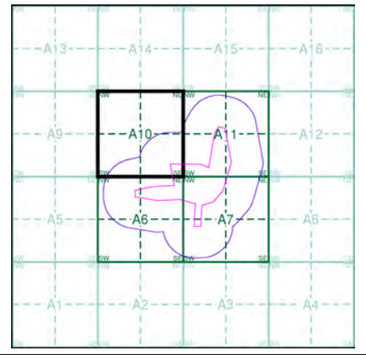
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

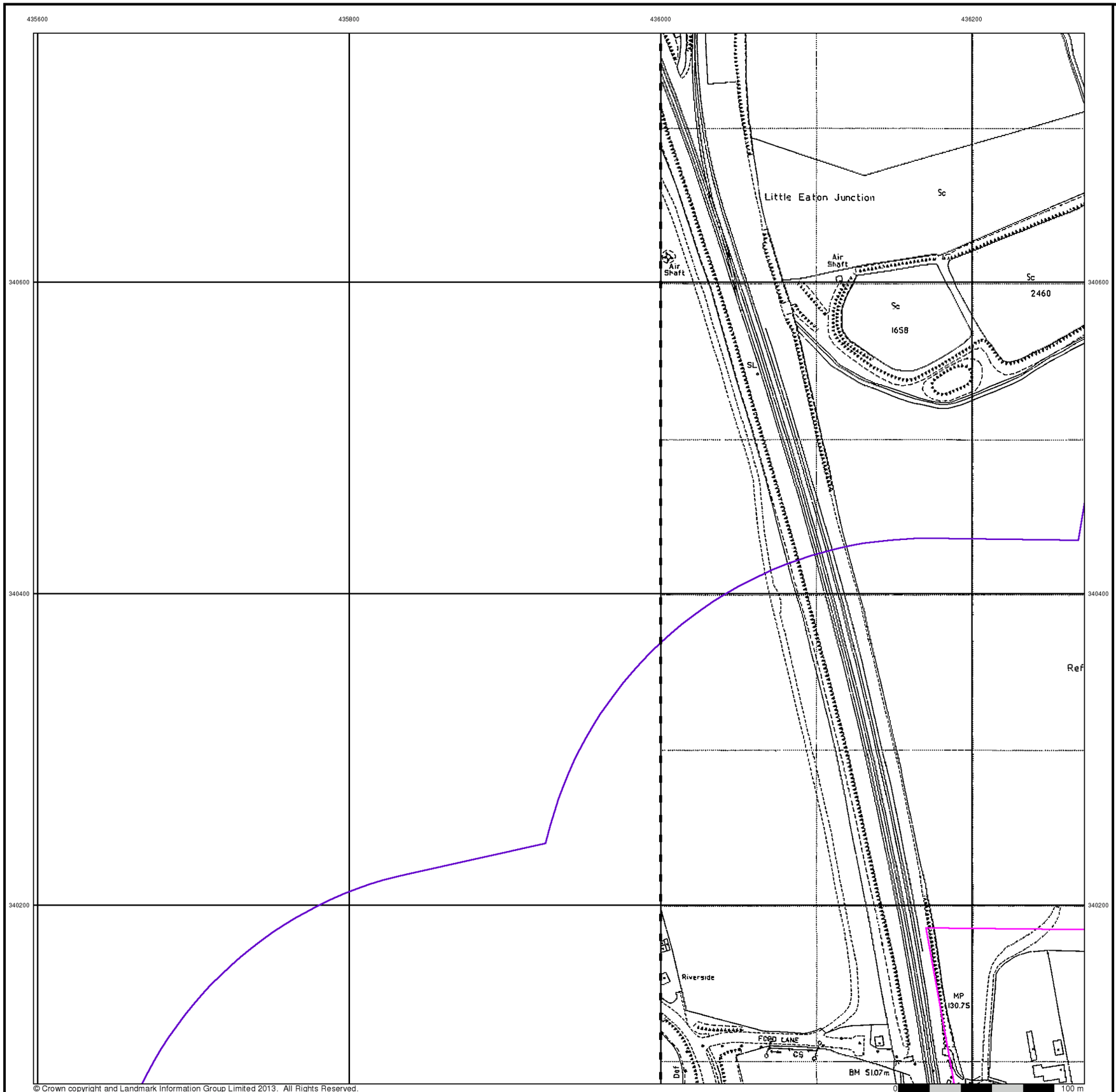
Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group

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Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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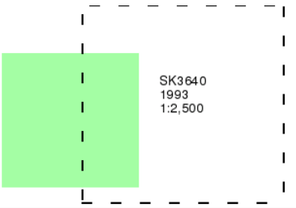
Large-Scale National Grid Data

Published 1993

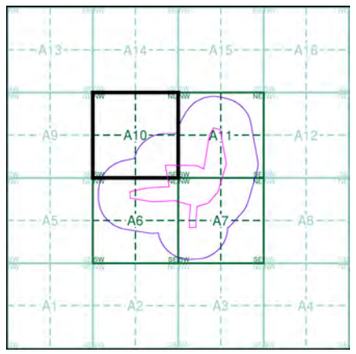
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number:	60386902_1_1
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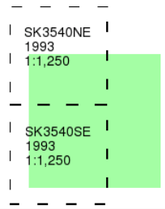
Large-Scale National Grid Data

Published 1993

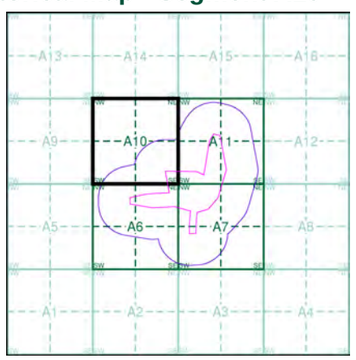
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

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National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	250

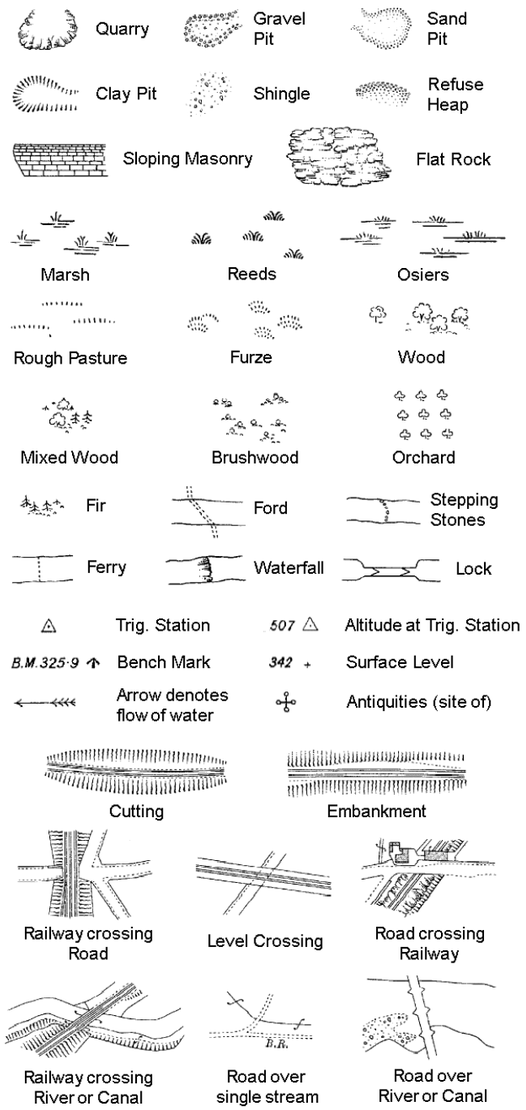
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Historical Mapping Legends

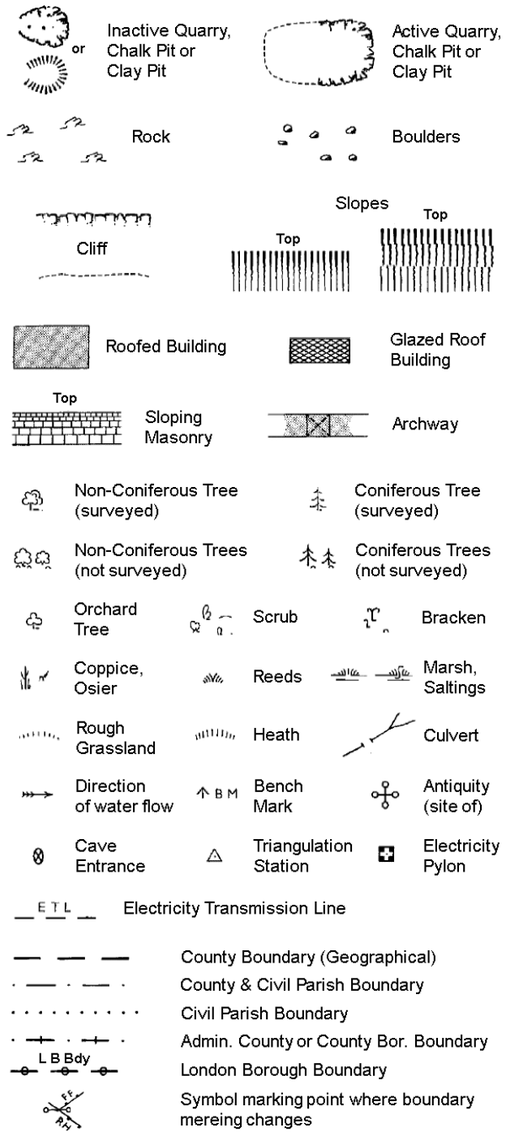
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

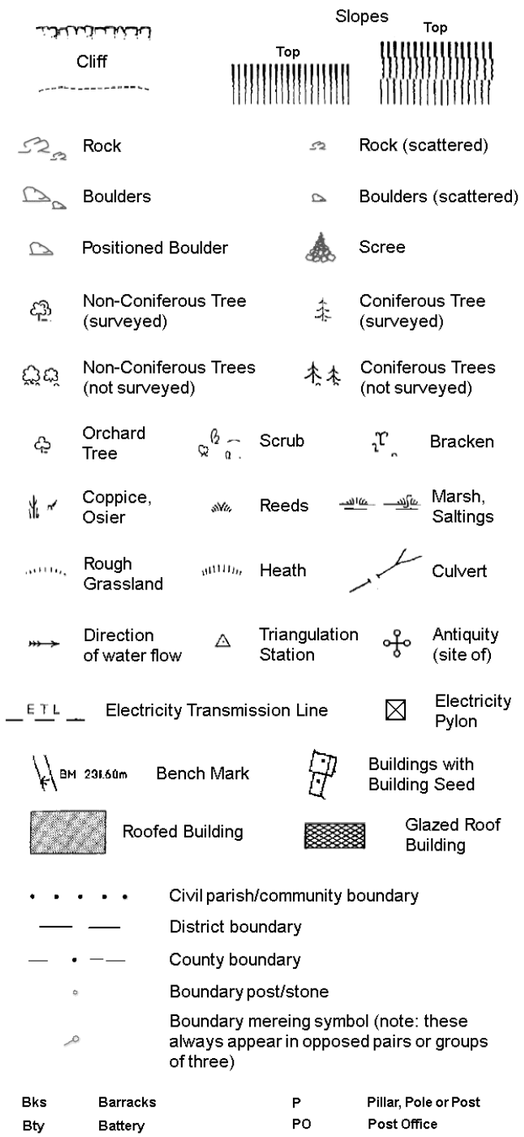
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

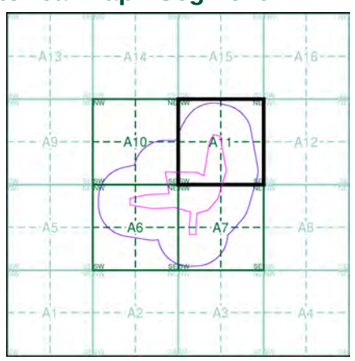
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1882	2
Derbyshire	1:2,500	1900	3
Derbyshire	1:2,500	1914	4
Derbyshire	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1961	6
Supply of Unpublished Survey Information	1:2,500	1974	7
Supply of Unpublished Survey Information	1:2,500	1976	8
Additional SIMs	1:2,500	1980	9
Additional SIMs	1:2,500	1989	10
Large-Scale National Grid Data	1:2,500	1993	11

Historical Map - Segment A11



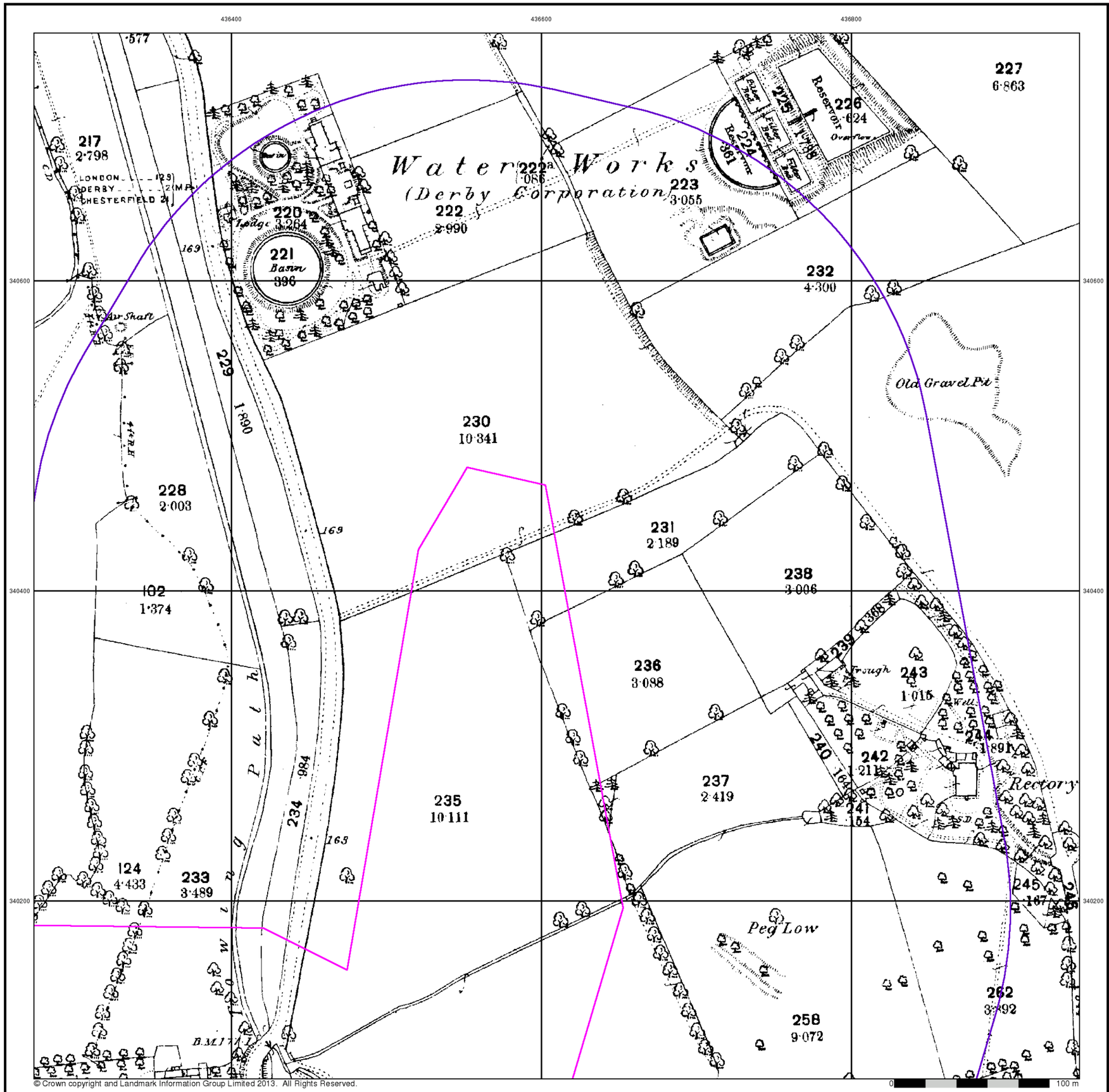
Order Details

Order Number: 60386902_1_1
Customer Ref: 47071637.208APS
National Grid Reference: 436330, 340070
Slice: A
Site Area (Ha): 19.55
Search Buffer (m): 250

Site Details

Site at, Derby, City of Derby

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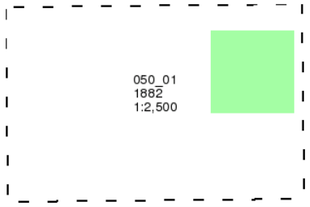
Derbyshire

Published 1882

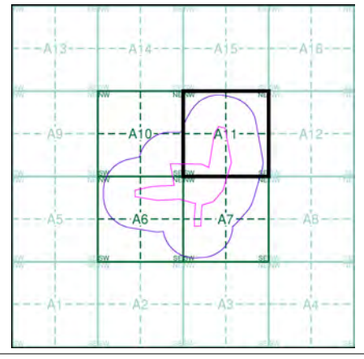
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A11



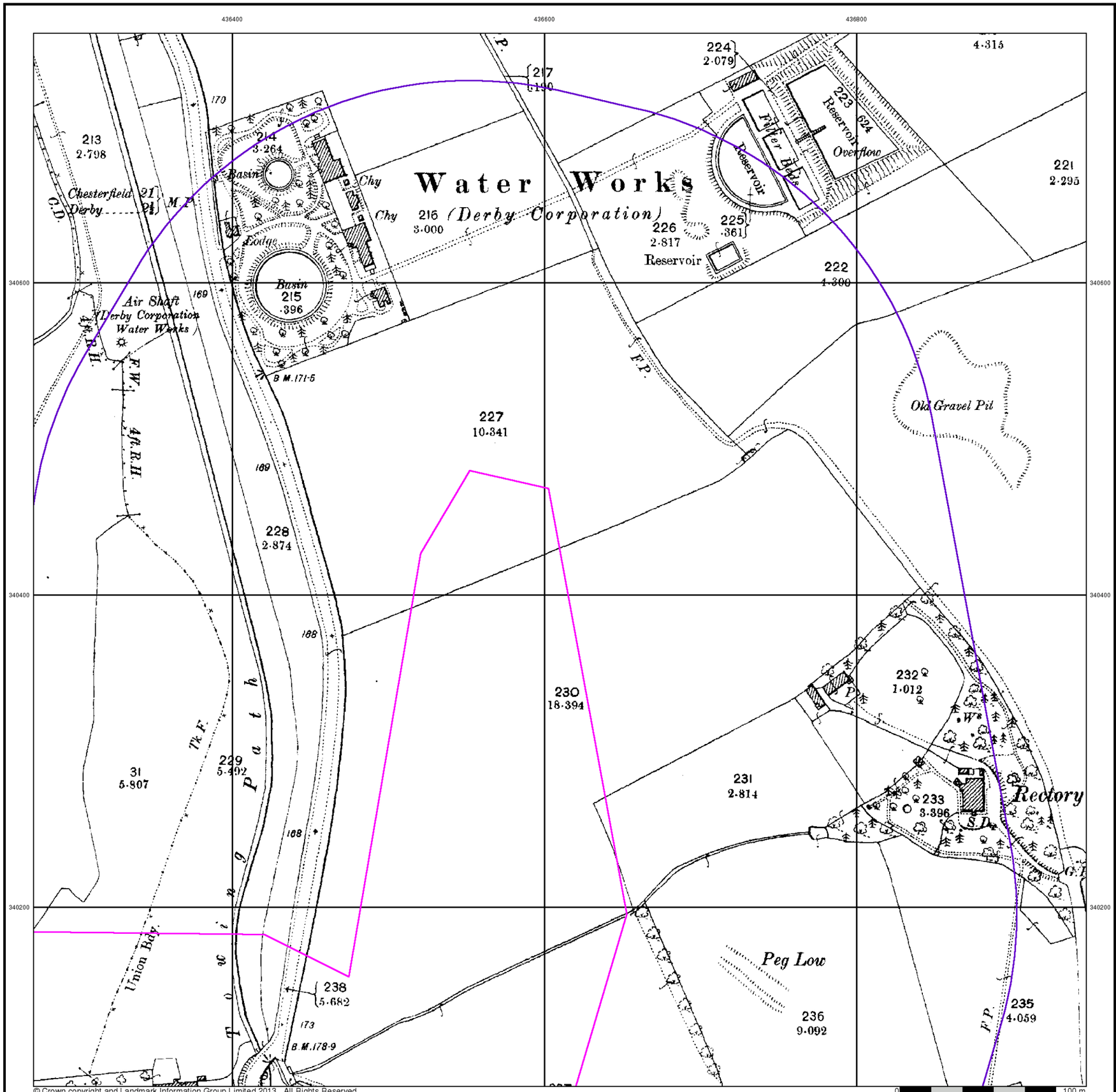
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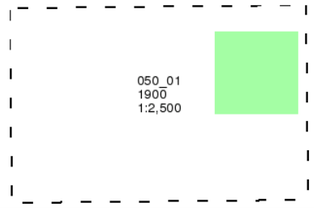
Derbyshire

Published 1900

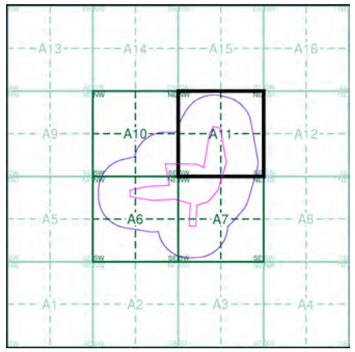
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



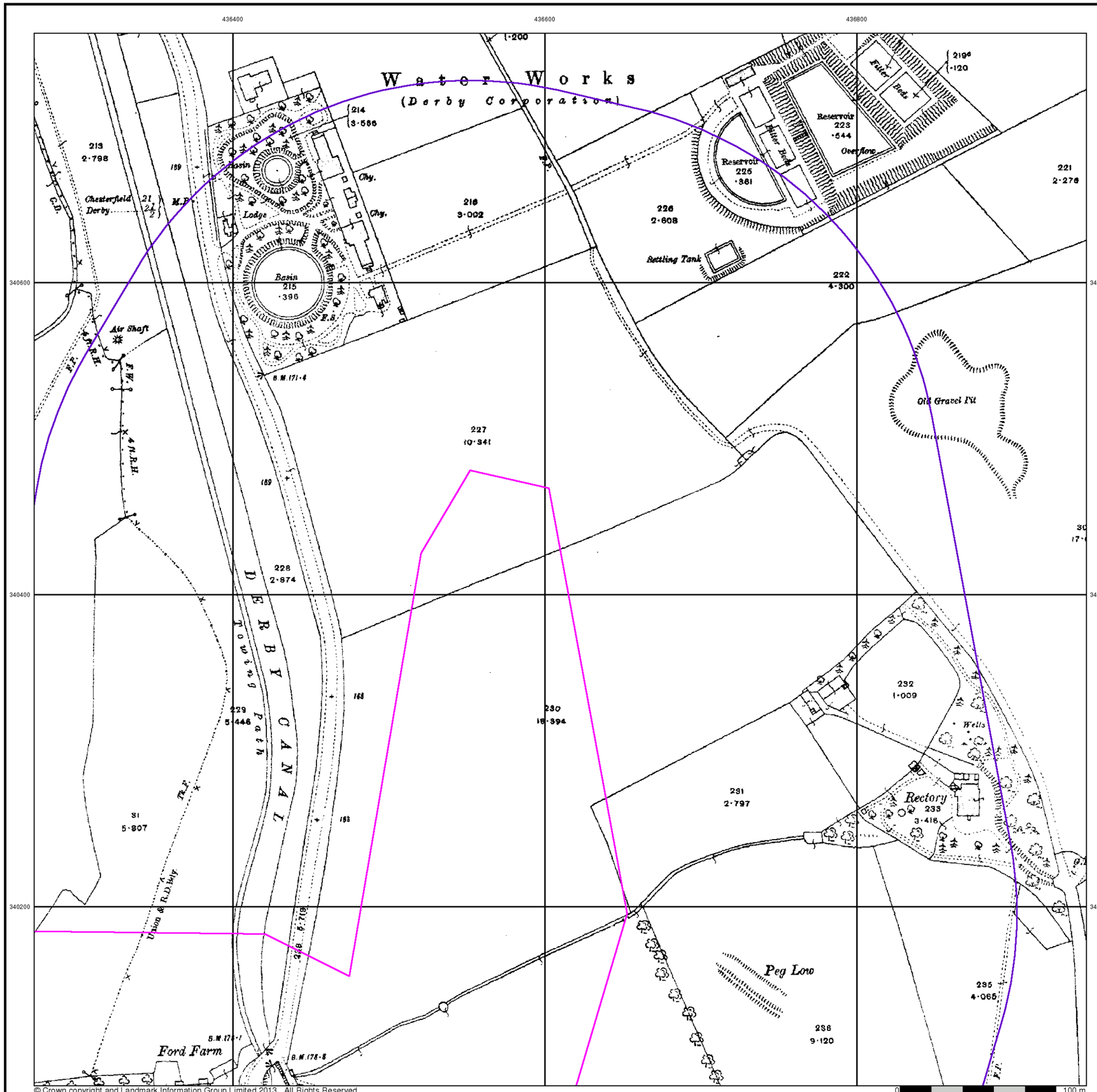
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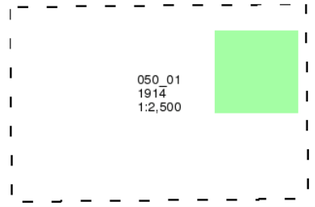
Derbyshire

Published 1914

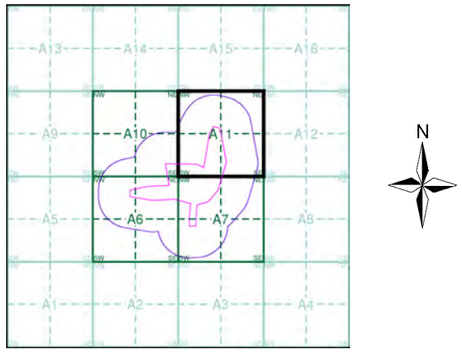
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



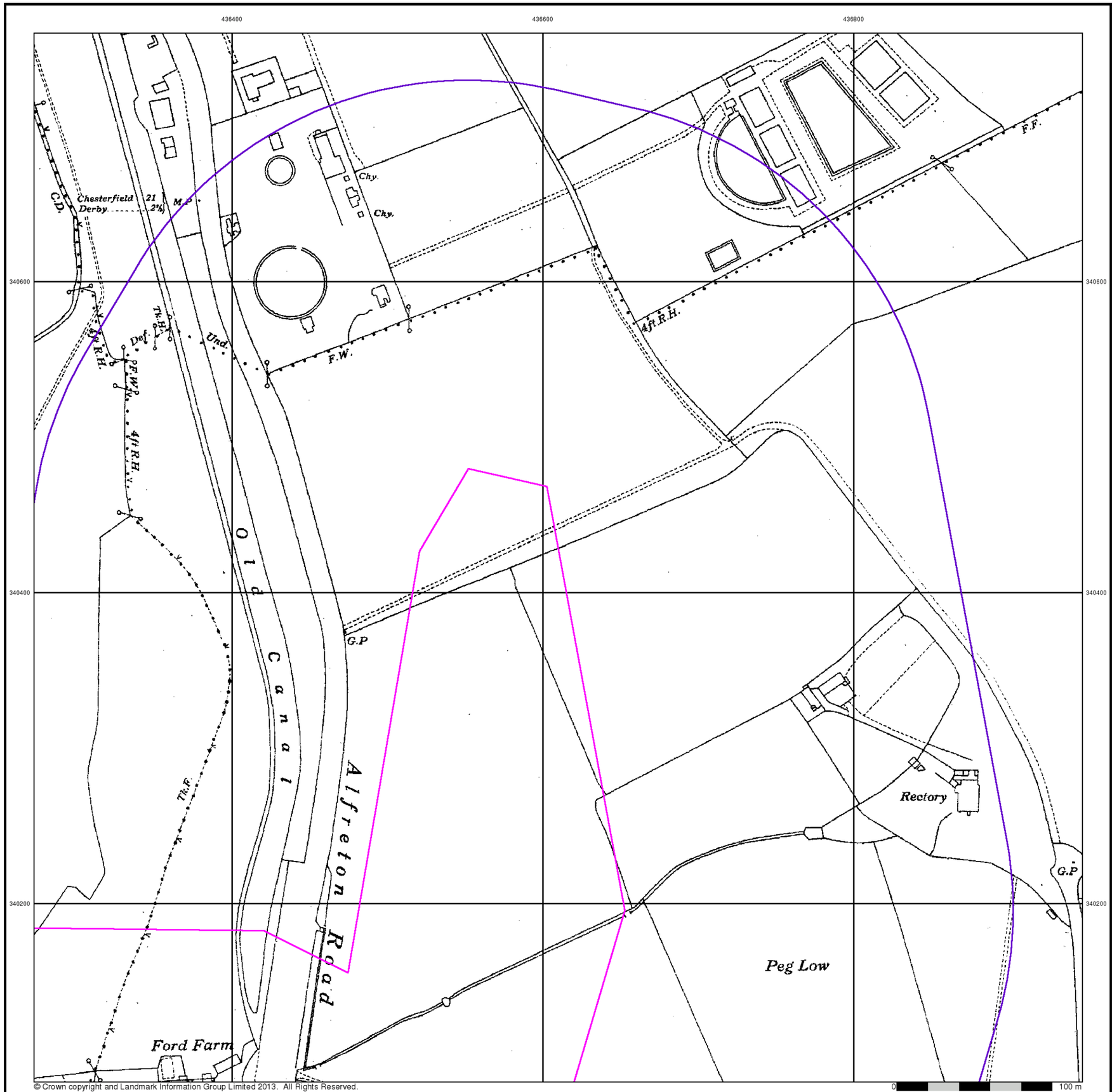
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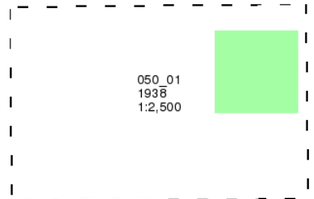
Derbyshire

Published 1938

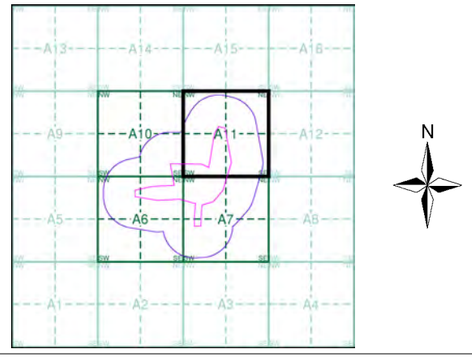
Source map scale - 1:2,500

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Historical Map - Segment A11



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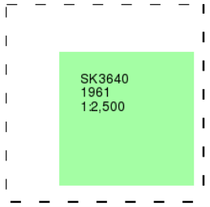
Ordnance Survey Plan

Published 1961

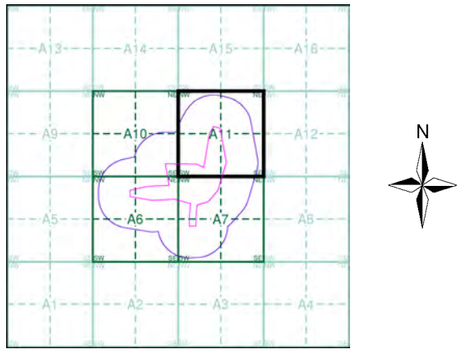
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Historical Map - Segment A11



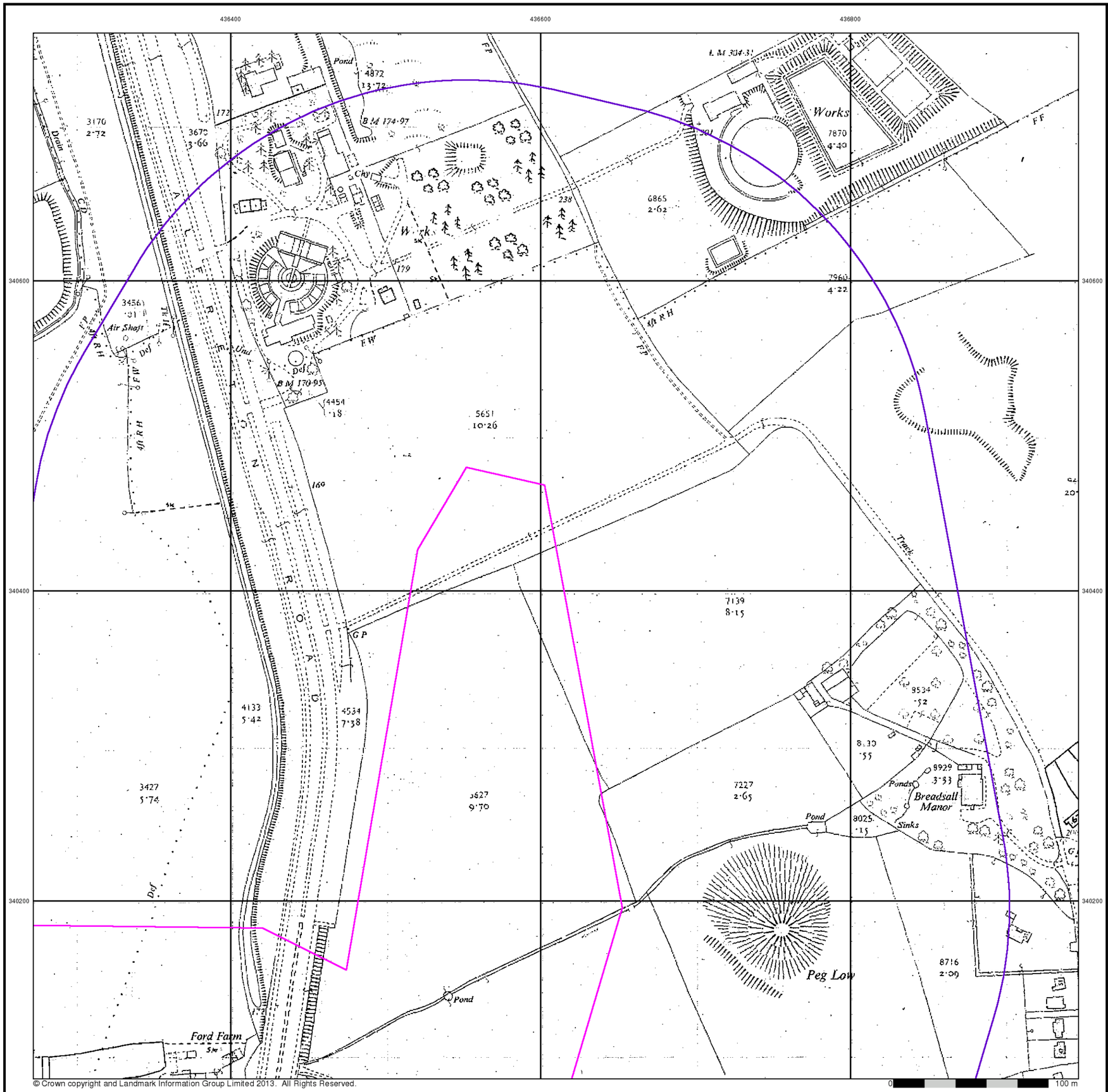
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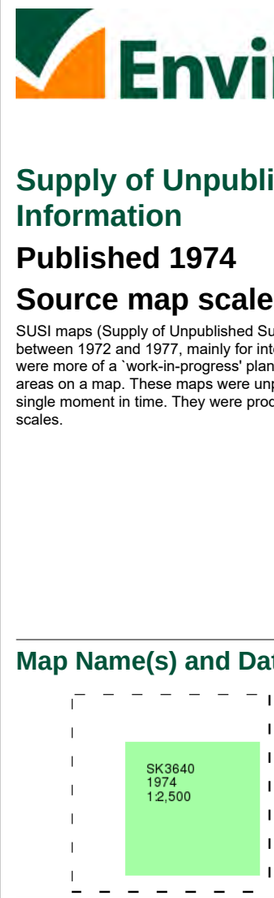
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Supply of Unpublished Survey Information

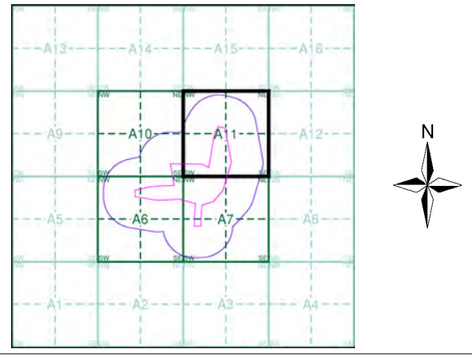
Published 1974

Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

Historical Map - Segment A11



Order Details

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Supply of Unpublished Survey Information

Published 1976

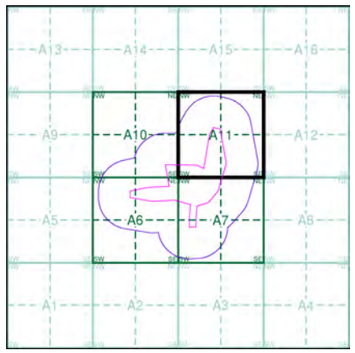
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



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436400 436600 436800

340600 340400 340200

Pond
BM 52.33m
52.4m
A.F.RETON ROAD
Drain
Water Treatment Works
NC
54.6m
1:12m RH
FW
Def
3456
01
Air Shaft
TH
1:22mR H
Tip
Track
91.7m
7870
4·40
Resr
FF
7960
4·22
Subway
8534
·52
8130
·55
8929
3·33
Ponds
Breadsall Manor
Sinks
8025
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7227
2·65
Pond
8716
2·09
Peg Low
Ford Farm

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0 100 m

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Additional SIMs

Published 1980

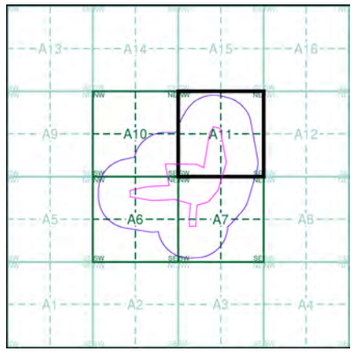
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK3640
1980
1:2,500

Historical Map - Segment A11



Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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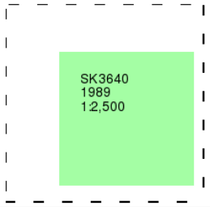
Additional SIMs

Published 1989

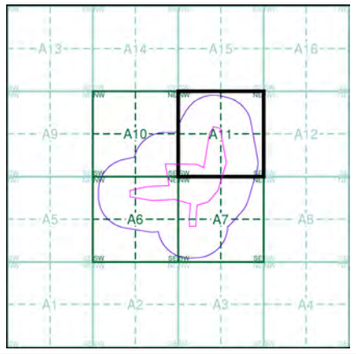
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



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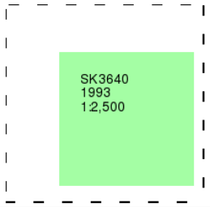
Large-Scale National Grid Data

Published 1993

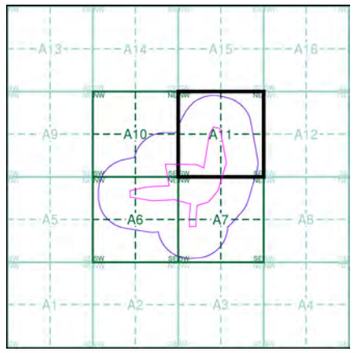
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

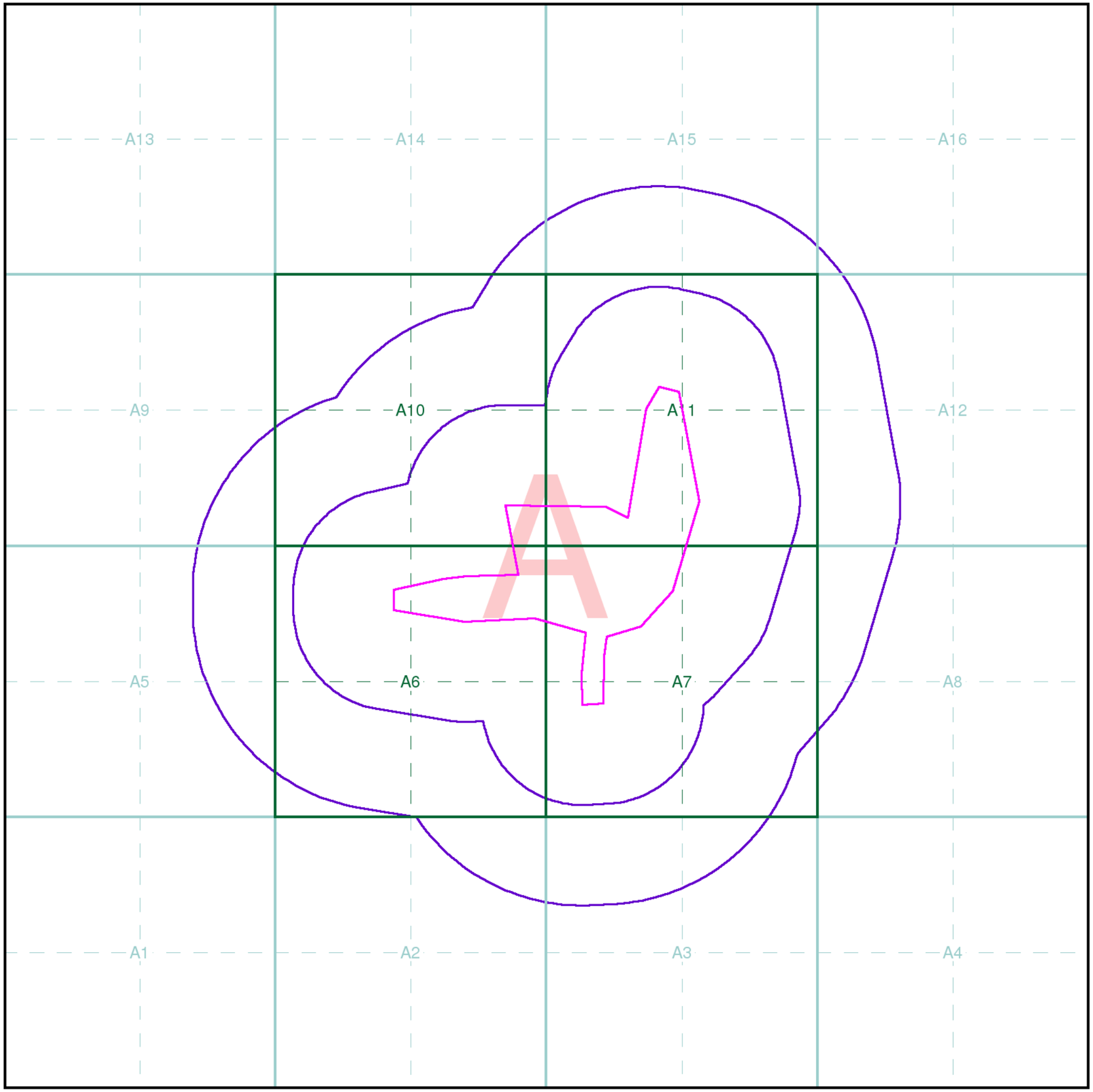
Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436330, 340070
Slice:	A
Site Area (Ha):	19.55
Search Buffer (m):	250

Site Details

Site at, Derby, City of Derby

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Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Licensed Partner

Envirocheck reports are compiled from 136 different sources of data.

Prepared For

URS
Royal Court
Basil Close
Chesterfield
Derbyshire
S41 7SL

Client Details

Ms J Dawson, URS Infrastructure & Environment UK Ltd, Royal Court, Basil Close, Chesterfield, Derbyshire, S41 7SL

Order Details

Order Number:	60386902_1_1
Customer Ref:	47071637.208APS
National Grid Reference:	436380, 340060
Site Area (Ha):	19.55
Search Buffer (m):	500

Site Details

Site at, Derby, City of Derby

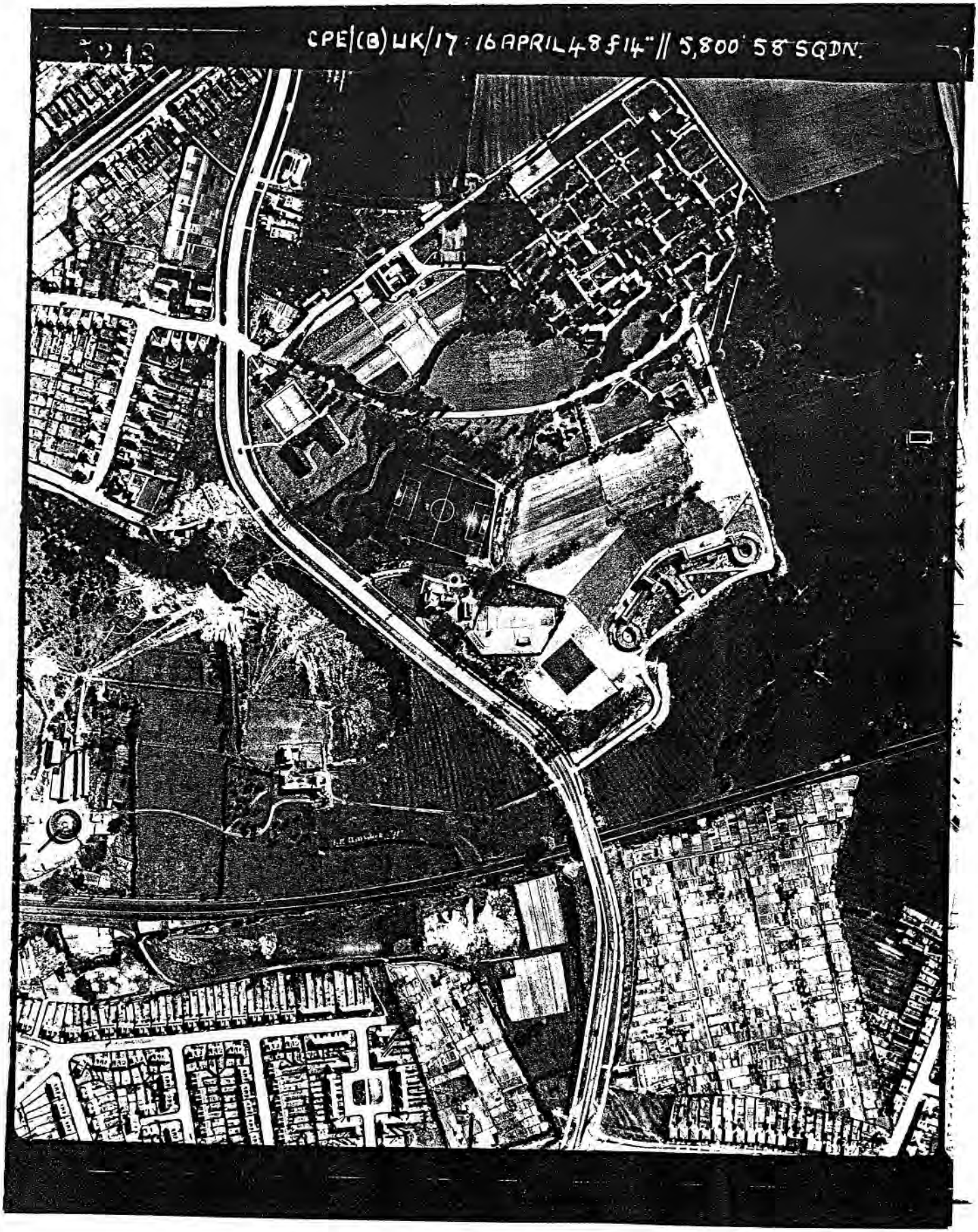
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Appendix E

Aerial Photographs

Area Covered	Scale	Reference No.	Date Taken
Kingsway Junction	1 : 5,800	CPE/B/UK/17, Frame 5248	April 1948
	1 : 10,000	58/1096, Frame 412	April 1953
	1 : 5,000	MAL/71123, Frame 257	July 1971
	N/A	OS/75248, Frame 16	June 1975
	1 : 5,300	OS/89150, Frame 156	May 1989
Markeaton Junction	1 : 7,500	OS/67012, Frame 69	March 1967
	1 : 5,000	MAL/71123, Frame 255	July 1971
Little Eaton Junction	1 : 7,500	OS/67012, Frame 5	March 1967
	1 : 10,000	MAL/71123, Frame 261	July 1971
	1 : 7,500	OS/78060, Frame 3	May 1978
	1 : 5,400	OS/88167,Frame 652 & 653	June 1988
	1 : 5,300	OS/89151, Frame 332	May 1989



CPE/B/UK/17 FR: 5248

ENGLISH HERITAGE NMR
AIR PHOTOGRAPHY

16 APRIL 1948



58/1096 AR:412 (F22)

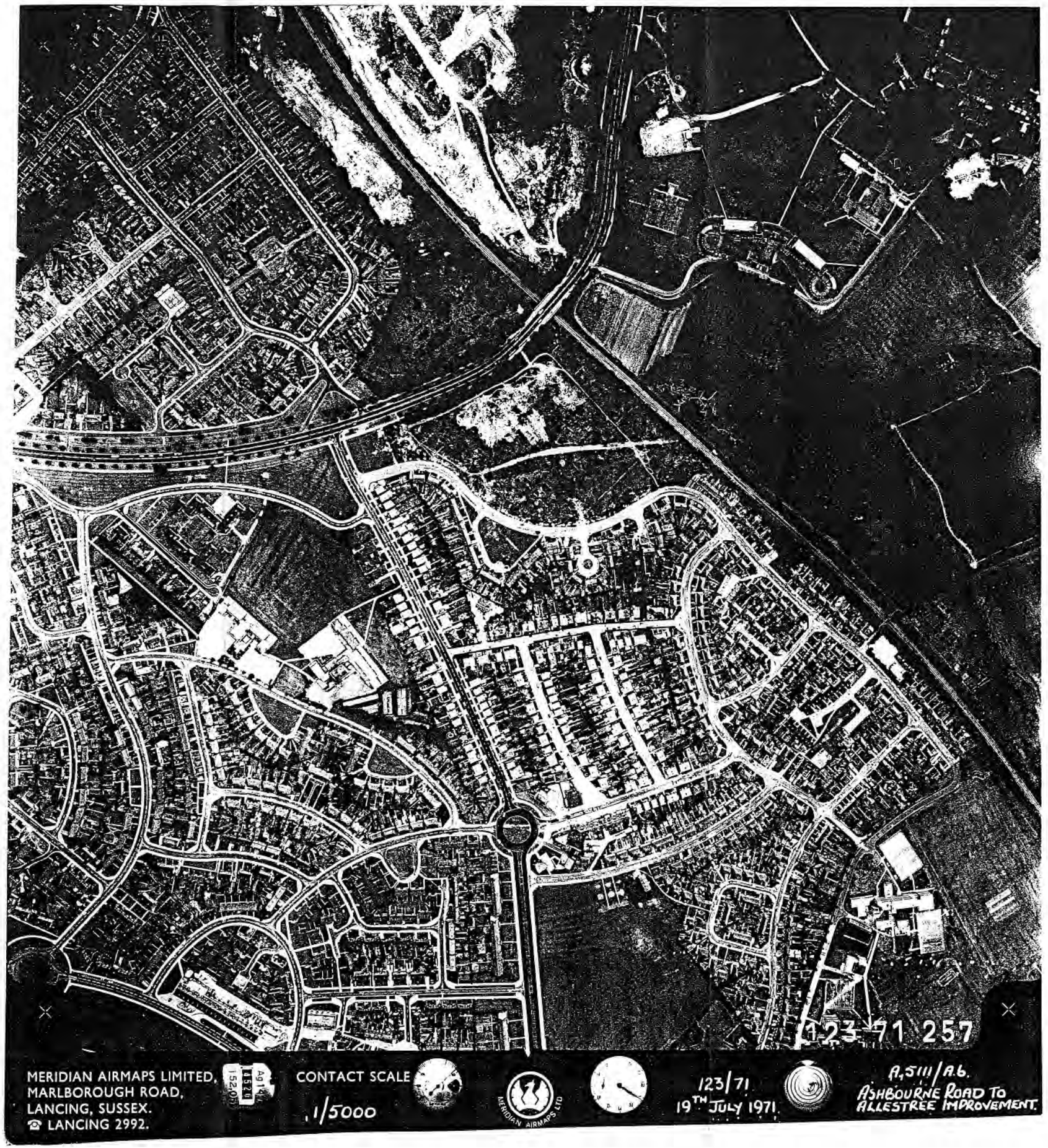
ENGLISH HERITAGE NMR
RAF PHOTOGRAPHY

22 APRIL 1953

MAL/71123

FR1257

19 JULY 1971



OS/75248

FR:16

13 JUNE 1975



OS189150

FR1156

7 MAY 1989





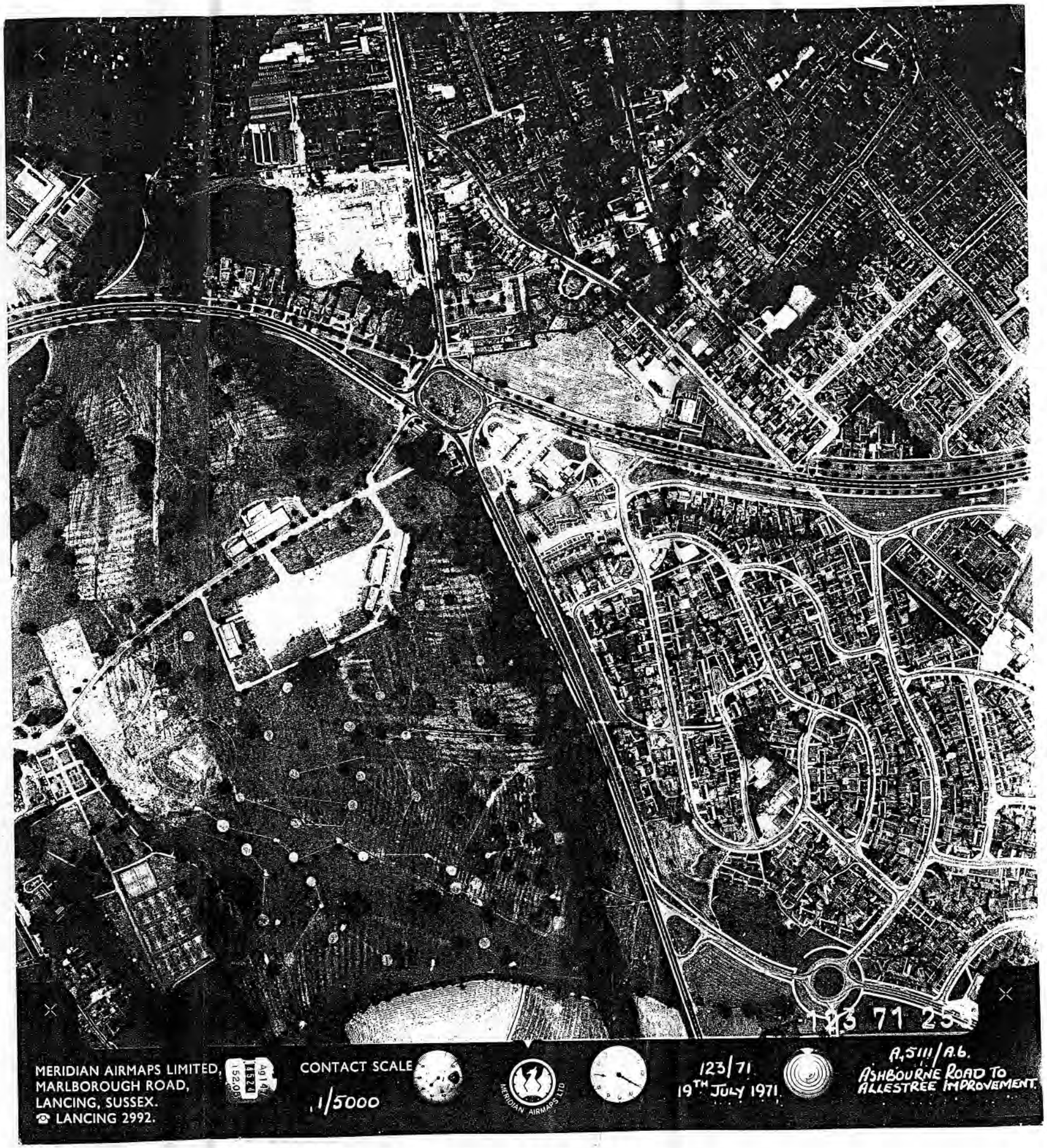
OS/67012
FR169

21 MARCH 1967

NAL/71123 FR1255

19 JULY 1971

© RESERVED



05/67012

RE: 5

21 MARCH 1967

ORDNANCE SURVEY © CROWN



MAL/71123

FR1261

19 JULY 1971

© RESERVED

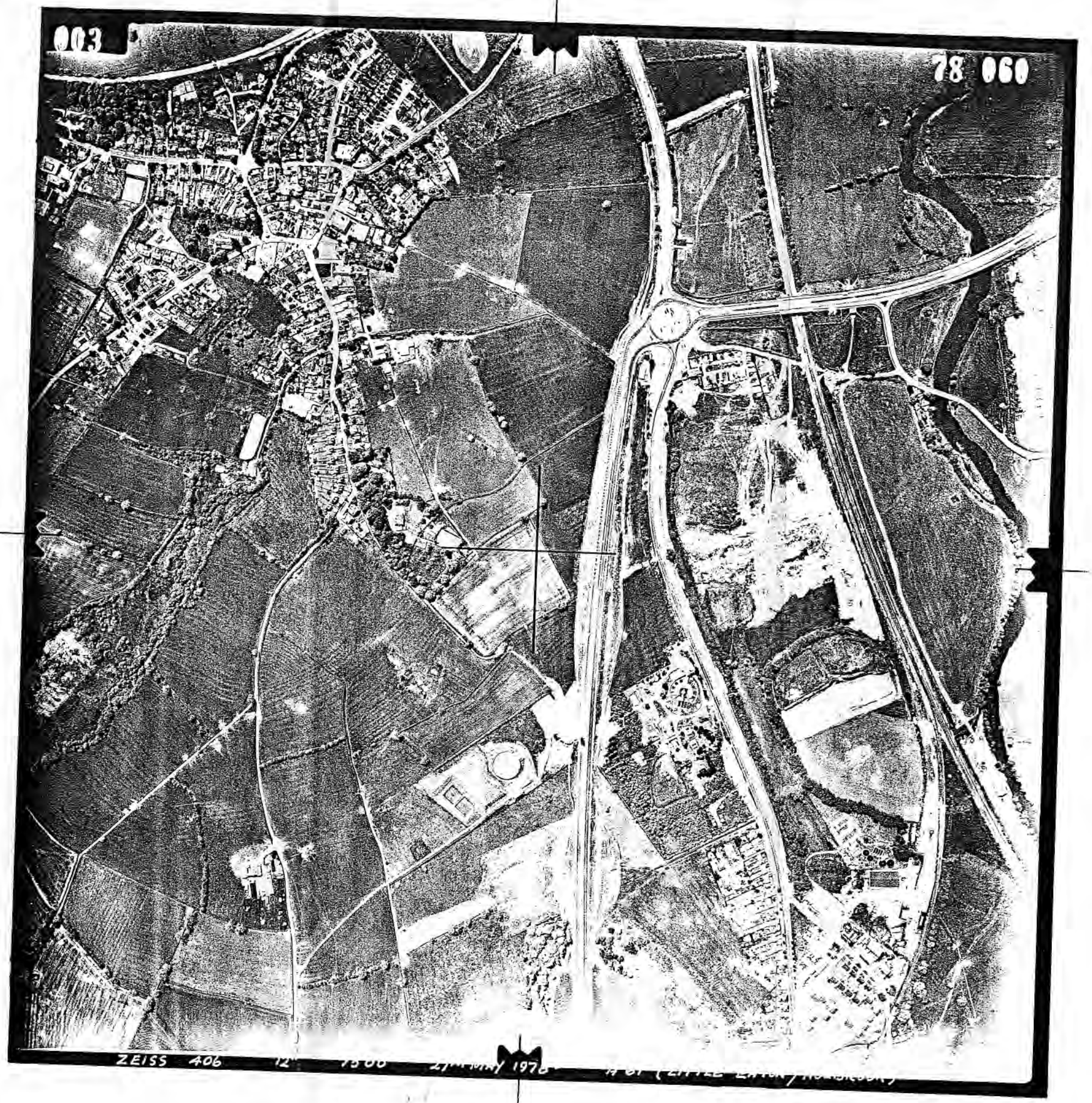


05|78060

FR13

27 MAY 1978

ORDNANCE SURV





05/88167

FR:652

13 JUNE 1988

ORDNANCE SURVEY © CROWN

OS/88167

FR:653

13 JUNE 1988

BRITISH SURVEY © CROWN



OS/89151

FR1332

7 MAY 1989

© RESERVED



Appendix F-1

Summary of In-Situ and Laboratory Testing Results – Kingsway

F-1 Summary of In-Situ and Laboratory Testing Results - Kingsway Junction

Material Type	Moisture Content (%)	LL (%)	PL (%)	PI (%)	Classification	PSD Classification %				
						Cobbles	Gravel	Sand	Silt	Clay
Topsoil	22	-	-	-	-	-	-	-	-	-
Mercia Mudstone	8.0 – 56	25 – 83	13 - 22	3 – 52	CL – CH, ML - MH	-	-	-	-	-
Alluvium	20 - 24	34 - 63	13 - 30	17 - 48	CI – CH (1No.CL)	-	-	-	-	-

Appendix F-2

Summary of In-Situ and Laboratory Testing Results – Markeaton

F-2 Summary of In-Situ and Laboratory Testing Results - Markeaton Junction

Material Type	Moisture Content (%)	LL (%)	PL (%)	PI (%)	Classification	PSD Classification %				
						Cobbles	Gravel	Sand	Silt	Clay
Topsoil	11 – 26	-	-	-	-	-	-	-	-	-
Made Ground	12 – 67	31 – 55	15 – 32	12 – 31	CL – CH, MH	-	-	-	-	-
River Terrace Deposits	2.7 – 19	21 – 32	17 – 18	3 – 15	CL	-	0 – 93	6 – 70	1 – 30	
Alluvium Deposits	1.0 – 78	21 – 55	11 – 37	10 – 26	CL – CI/CH, MH	-	57 – 97	1 – 32	1 – 11	
Mercia Mudstone Group	4.5 – 37	11 – 58	12 – 26	9 – 38	CL – CI (1 no. CH)	-	-	-	-	-

Appendix F-3

Summary of In-Situ and Laboratory Testing Results – Little Eaton

F-3 Summary of In-Situ and Laboratory Testing Results – Little Eaton Junction

Material Type	Moisture Content (%)	LL (%)	PL (%)	PI (%)	Classification	PSD Classification %				
						Cobbles	Gravel	Sand	Silt	Clay
Made Ground	3.0 – 25	25 – 50	14 – 24	10 – 26	CL – CI	0 – 34	11 – 75	16 – 74	11 – 23	3 – 15
									9 – 13	
Alluvium (Predominantly SILT and CLAY)	9.0 – 52	30 – 70	16 – 30	11 – 41	CI – CH, MI, MH/CH	0 – 16	2 – 27	12 – 43	26 – 33	6 – 53
Alluvium (Predominantly SAND and GRAVEL)	5.0 – 25	-	-	-	-	0	59 – 71	22 – 34	6	10
									2 – 8	
Mudstone	6.0 – 33	-	-	-	-	-	-	-	-	-
Siltstone	10 – 23	-	-	-	-	-	-	-	-	-
Sandstone	10 – 21	-	-	-	-	-	-	-	-	-