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1. INTRODUCTION

1.1 Purpose of Report

URS was commissioned by Waystone Developments Limited to undertake a Phase 1 Geo-environmental & Geotechnical Assessment for the proposed mixed development of the Shipley Lakeside site, Shipley, Derbyshire, see Figure 1.

This Phase 1 Assessment report aims to identify potential contamination issues from current and historic land use, which may be related to on and off-site sources. This report will also provide a preliminary assessment of the geotechnical factors which have the potential to affect the proposed development scheme. The report also includes a coal mining risk assessment. In addition and where it is required, further details of any necessary ground investigation and associated monitoring will be provided. The report will be submitted in support of an outline planning application for the proposed development.

This Phase 1 Geo-environmental & Geotechnical assessment will review the existing information and proposals for the site. This assessment encompasses the following:

- Geological conditions;
- Hydrology and hydrogeology;
- Contaminated land;
- Environmental risk assessment;
- Geotechnical assessment;
- Mining risk assessment; and,
- Outline Ground Investigation Proposals.

1.2 Proposed Development

Waystone Developments Limited is a development partner with Derbyshire County Council (DCC) for the development of the Shipley Lakeside site, Shipley, Derbyshire. The proposal includes for housing, business use, garden centre pub and hotel/conference facility, retirement village, health and care campus and a training/leisure/education facility. The Development Plan for the site is presented in Appendix A. The site is approximately 45ha including a lake of 13 ha which is to be retained as part of the proposals.

1.3 Information Sources

- BGS Solid and Drift for Derby (Sheet 125) 1:50,000
- BGS Open Geoscience, 2012 (http://www.bgs.ac.uk/opengeoscience)
- BGS Memoir accompanying Sheet 125 'The Geology of the country north of Derby' (Frost, 1979)
- Envirocheck Report, Landmark Group, 24th August 2012, Order No. 41021474_1_1 (Appendix B).
- Environment Agency Website (www.environment-agency.gov.uk)
- DEFRA website 'MAGIC' (http://magic.defra.gov.uk/).
- Coal Authority (2012) Mining Report (Ref: 51000150250001)

2. ENVIRONMENTAL SETTING

2.1 Location

The site is located approximately 10 miles to the north west of Nottingham, and is positioned between the town of Heanor to the North West and then both Cotmanhay and Ilkeston to the south east. The site is centred on national grid co-ordinate SK444494, 344163 and is shown on the Figure 1. The site boundary is presented on Figure 2.

The proposed development for the site is shown on the Waystone Masterplan (Drawing number 4487–L-01 E). This shows that the proposed development is located around the western, northern and eastern banks of Shipley Lake.

2.2 Site Walkover

A site walkover was undertaken on 21st September 2012 by a representative of URS. The site was accessed in the north eastern area of the site. The site is a bowl shape with site levels dropping from western, northern and eastern sides of the sites towards the lake at the centre of the site and towards the south of the site, where the lake is contained by a dam.

The site was noted to contain good vegetation cover in all areas except where there are hardstanding and floor slabs, foundations and bricks remaining from the former buildings and structures of the American Adventure Park. A few locations were noted where former services equipment had been fenced off for health and safety reasons.

Evidence of the former use of the site as an open cast coal mine was noticeable in the north western area of the site in the type of soil at the surface. The soil was clayey, very hard and was rutted but also contained a good cover of vegetation.

No visual or olfactory evidence of contamination or pollution were noted in any areas of the site that were accessed during the site walkover.

2.3 Hydrology

The key hydrological feature on site is Shipley Lake, which the proposed development is centred around. To the north west of the site there is a pair of ponds, with the closest named Coppice Lake, 135m from the site, then Osborne's Pond, 530m from the site. Observation of the mapping shown on the Environment Agency's website, and contained within the Envirocheck report, indicates that these ponds may be in continuity via a feeder stream which runs from Coppice Lake to Shipley Lake.

A further small pond is shown 120m north of the site in proximity to the local school and adjacent housing estate. This pond is known as Hogg's pond, and does not appear to be in continuity with Shipley Lake via above ground stream.

Shipley Lake outflows into a small pond immediately to the south of its dam. This pond is understood to be part of the Derbyshire Wildlife Trust Woodside site. Streams then flow from this pond towards the west and the east. To the west are the Mapperly Pond and Mapperly Reservoir. The eastern stream flows past the location of the treatment area for the minewater pumped from the pumping station near the development area. The locations of these ponds are shown on the Envirocheck site sensitivity plan.

The closest watercourse, which is monitored by the Environment Agency, is the Erewash (Grand Union) Canal. This is located 1.3km to the north east of the site, measured from the tip of the north eastern feeder road.

The Environment Agency gives a Chemistry Grade B and Biology Grade C for this watercourse under the General Quality Assessment (GQA) Scheme. Then under the Environment Agency's River Basin Management Plan (RBMP), the whole stretch of the River Erewash, and associated Erewash (Grand Union) Canal have both been classified as having a Good chemical quality and a Moderate ecological quality.

Although data is not presented by the Environment Agency for Nut Brook which runs south of the site under the GQA scheme; this stream has been classified as part of the RBMP. The whole stretch of Nut Brook in proximity to the site has been classified as having both a "Good" Chemical and Ecological quality.

2.4 Geology

For the geological information of the site, the BGS Solid and Drift Map for Derby, (Sheet 125) 1:50,000, and the BGS memoir accompanying Sheet 125 were reviewed in addition to the BGS Open Geoscience (2012) website.

2.4.1 *Made Ground*

Observations of the historical mapping presented in the Envirocheck Report (41021474_1_1), indicates that it is highly likely that made ground will be encountered on site.

Specifically the 1938 (1:10,560), 1955 (1:10,000) and 1966 (1:10,000) maps show increasing coverage of the northern part of the site in colliery spoil, which culminated in the partial infilling of the Shipley Lake (formerly called the Fish Pond). It is plausible that significant depths of colliery spoil may be encountered, overlying both Alluvium and Pennine Middle Coal Measures in this area of the site.

Made Ground deposits are also expected to be present on site along the far northern site boundary. These are likely to have been deposited as part of the construction and subsequent demolition of buildings associated with Shipley and Woodside Collieries, but also the former Heanor Branch Line, which linked the Collieries to the railway network. There is historical evidence of a Gas Works and a Brick Yard immediately to the south of the site from approximately 1880s to the early 1930s. There is a slight possibility that Made Ground which contains materials from either of these historical land uses may have been placed within the development area following the re-deposition of ground materials following open cast coal mining of the site, which took place in the 1970s.

However, it is known that the whole site has been mined for shallow coal by opencast techniques and that the whole site is anticipated to contain significant thicknesses of Made Ground such as colliery spoil and reworked natural materials (overburden). A strip of land adjacent to the northern boundary of the site may not have been mined by open cast methods and may contain a high wall to the open cast pit. The colliery spoil is noted on the historical OS maps of the site associated with the Shipley/Woodside Colliery and it is likely that colliery spoil would have been re-deposited within the open cast coal mine excavation.

The American Adventure theme park was closed in 2007. The main buildings and rides associated with the Theme Park have been removed. However, the foundations and floor / base slabs still remain at the site, with some associated building rubble. It is understood that Waystone Developments Limited plan to break out these materials during the earthworks stage of the proposed development and re-use as hardcore during the construction of roads and paths.

2.4.2 *Superficial Deposits*

The BGS Solid and Drift Map for Derby, (Sheet 125) 1:50,000, indicates that a tract of Alluvium (Clay, Silt, Sand and Gravel) runs, in a north western direction, from the northern end of Shipley lake. However, no superficial deposits are noted to be present in the remainder of the site. The BGS Open Geoscience (2012) website (1:50,000) confirmed these findings.

The site has been extensively open cast mined for coal in the 1970s and that the Alluvium is highly likely to have been used as 'topsoil' material in the reclamation works undertaken at the site on completion of the open cast mining.

2.4.3 *Solid Geology*

The BGS Solid and Drift Map for Derby (Sheet 125) 1:50,000 indicated that the underlying solid geology is comprised of Pennine Middle Coal Measures Formation (Mudstone, Siltstone and Sandstone). The site lies towards the southern edge of a shallow synclinal or bowl shaped structure whereby the coal measures strata dip gently towards the centre of the bowl located approximately 50 – 100m north of the site. A coal crop is shown within the site boundary which relates to the Dunsil coal seam. The Dunsil Coal seam strikes centrally in a broadly south east to north west direction, along the western edge of the syncline, before turning back south along the site boundary. The Top Hard Comb and Mainsmut coal seams are shown to outcrop concentrically towards the centre of the synclinal bowl structure. Other coal seams present beneath the site are discussed in section 8.

The BGS Open Geoscience (2012) website (1:50,000) confirmed these findings. To the east and west of the site, adjacent to site boundary, there are further areas of Pennine Middle Coal Measures Formation. However, the BGS Open Geoscience (2012) website (1:50,000) lists these deposits as being principally composed of Sandstone.

2.4.4 *Geological Faults*

The BGS Solid and Drift Map for Derby (Sheet 125) 1:50,000 scale, does not show any faults running across the site. The closest fault is located approximately 200m to the north of the site, running north from the former Heanor Branch Line in proximity to Hogg's Pond. A fault is located approximately 600m to the west of the site, on the western side of Shipley Hall. Another fault is located to the south of Lodge Farm, approximately 750m south of site. The BGS memoir indicates that a swarm of normal faults striking south-east – north west disrupt the regional dip of the strata, with a subsidiary set of normal faults striking east – west and ENE-WSW.

2.4.5 *Potential for Natural Ground Movement*

The following is based on information within the Envirocheck report obtained from the BGS.

The site is listed as having:

- 'No Hazard' to a 'Very Low' hazard potential associated with collapsible ground stability;
- 'No Hazard' to a 'Moderate' hazard potential associated with compressible ground stability;
- 'No Hazard' potential associated with ground dissolution stability;
- 'Very Low' to a 'Moderate' hazard potential associated with landslide ground stability;
- 'No Hazard' to a 'Very Low' hazard potential associated with running sand ground stability; and,

- 'No Hazard' to a 'Very Low' hazard potential associated with shrinking or swelling clay ground stability.

2.5 Mining

The site is known to have a significant coal mining history. Collieries have been present along the northern boundary to the site. Open cast coal mining was undertaken across the whole site in the 1970s, with the possible exception of a strip of land along the northern boundary to the site. The Envirocheck report lists the presence of 9no BGS recorded mineral sites within a range of 42m to 484m from the site boundary. Details of these mineral sites are listed in Table 1.

Table 1 BGS Recorded Mineral Sites

Distance	Site Name	Location	Type	Commodity	Status
42m (S)	Shipley Wharf Brick Yard	Shipley, Ilkeston	Opencast	Common Clay and Shale	Ceased
51m (N)	Deepfields Colliery	Shipley, Ilkeston	Underground	Coal – Deep	Ceased
68m (NW)	Shipley Colliery Pits	Shipley, Ilkeston	Underground	Coal – Deep	Ceased
82m (N)	Shipley Colliery Pits	Shipley, Ilkeston	Underground	Coal – Deep	Ceased
315m (SE)	Parkfield Farm Opencast	Shipley, Ilkeston	Opencast	Coal – Surface Mined	Ceased
423m (SW)	Shipley Hall Opencast	Shipley, Ilkeston	Opencast	Coal – Surface Mined	Ceased
471m (NW)	Shipley Colliery Newcastle Pit	Shipley, Ilkeston	Underground	Coal – Deep	Ceased
473m (S)	Lodge Farm Opencast	Shipley, Ilkeston	Opencast	Coal – Surface Mined	Ceased
484m (N)	Hassock Lane Coal Pit	Shipley, Ilkeston	Underground	Coal – Deep	Ceased

A coal mining risk assessment is presented in section 8 of this report.

2.6 Hydrogeology

The Superficial Deposit of Alluvium located, on the BGS Sheet 125, in the northern area of the site, and to the north of the site, is classed as Secondary A aquifer, (Minor aquifer on the Environment Agency Groundwater Vulnerability Maps) and are defined as "permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers". However, these materials are likely to have been impacted by the open cast mining activities that were undertaken during the 1970s and the superficial deposits may have been re-used as topsoil elsewhere within the site.

The underlying bedrock of the Pennine Middle Coal Measures is classified by the Environment Agency as a Secondary A aquifer. The groundwater level in the underlying mining voids in the bedrock aquifer is controlled by the mine water pumping station adjacent to the northern boundary of the site. The pumping station is located in the former No. 2 shaft of the former Shipley Woodside Colliery which closed in 1966. The mine water is pumped and treated at the surface to prevent its break – out pollution of surface waters, notably the Nut Brook.

There are no Source Protection Zones (Total Catchment – Zone 3) within 5km of the site.

3. SUMMARY OF ENVIRONMENTAL INFORMATION

3.1 Water Abstractions

The Envirocheck Report (41021474_1_1) indicates there is a single licensed water abstraction on site operated by Ventureworld Ltd., which is covered by two identical entries within the Envirocheck Report. A further licensed water abstraction was also found off site within the 1km search buffer used. The details for these abstractions are given in Table 2 below.

Table 2 Abstraction Licenses According to Envirocheck Report

Distance	Operator	Location	Abstraction	Permit Start Date	Permit End Data
On Site	Ventureworld Ltd	Inland Water (Shipley Lake) Ilkeston	Amenity: Lake and Pond Through flow	25th August 2000	Not Supplied
126m (NW)	Kenneth Beale	Coppice Inn, Heanor, Derbyshire	Impounding	Not Supplied	Not Supplied

3.2 Discharge Consents

The Envirocheck report (41021474_1_1) indicates there is one (1) discharge consent on site with a further 4no off site discharges. However, the offsite entry operated by Severn Trent Water Limited is covered by two identical entries. The details for these abstractions are given in Table 3 below.

Table 3 Discharge Consents

Distance	Operator	Location	Discharge Type	Receiving Water	Status
On Site	Severn Trent Water Limited	Shipley Lake Open Cast, Amber Valley	Sewage Network, Pumping Station	Nut Brook (Tributary)	Pre National Rivers Authority Legislation where Issue date < 01/09/1989
146m (NE)	Vic Hallam Ltd	Sport Pavilion, Pit Lane, Shipley	Sewage Effluent	Not Supplied	Not Supplied
277m (S)	Lehane Mackenzie and Shand Ltd	Land Adjacent to Rose Cottage, and Lodge Farm, Shipley South Opencast Coal Site	Sewage Effluent	Not Supplied	Not Supplied
498m (NW)	Severn Trent Water Limited	Marlpool Pumping Station Sso, Buxton Avenue, Marlpool	Public Sewage: Storm Sewage Overflow	Tributary of Nut Brook	Post National Rivers Authority Legislation where issue Date > 13/08/1989

3.3 Pollution Incidents to Controlled Waters

The Envirocheck report (41021474_1_1) indicates that 3no. pollution incidents to controlled waters have been reported within a radius of 250 to 500m from the site. The details for these pollution incidents are given in Table 4 below.

Table 4 Pollution Incidents to Controlled Waters

Distance	Date	Pollutant	Receiving Water	Severity
338m (NE)	21st April 1997	Storm Sewage	Watercourse	Category 3 – Minor Incident
406m (NE)	5th June 1998	Crude Sewage	Not Given	Category 3 – Minor Incident
444m (SW)	5th May 1999	Oils – Kerosene Fuel Oil	Watercourse	Category 3 – Minor Incident

3.4 Local Authority Pollution Prevention and Controls

There are no sites which are operated under a Local Authority Pollution Prevention and Control permit within 1km of the Shipley Lakeside Development. In addition there are also no Local Authority Integrated Pollution Prevention and Control, or Local Authority Pollution Prevention and Control Enforcement permits within 1km of the Shipley Lakeside Development.

3.5 Potentially Hazardous Sites

There are no sites within 1km of the Shipley Lakeside Development, which are classed under the following headings within the Envirocheck report (41021474_1_1): Control of Major Accident Hazards Sites (COMAH), Explosive Sites, Notification of Installations Handling Hazardous Substances (NIHHS), Planning Hazardous Substance Consents and Planning Hazardous Substance Enforcements.

3.6 Contemporary Trade Land Use

There are 5no. Contemporary Trade Directory Entries listed within the Envirocheck report (41021474_1_1) located with a range of 142m to 485m from the site. These encompass the following classifications:

- Used Car Dealers (Active) – 142m North
- Electronic Equipment Manufacturers and Assemblers (Active) – 160m North West
- Fireplaces and Mantelpieces (Active) – 313m North
- Lavender Line Travel (Active) – 481m North
- Cash Registers & Check Out Equipment (Active) – 485m South East

In addition, no Fuel station entries were listed within the Envirocheck report (41021474_1_1), within a distance of 1km from the site.

3.7 Registered Landfill Sites

There are no Registered Landfills sites within 1km of the Shipley Lakeside Development presented within the Envirocheck report (41021474_1_1).

3.8 Historic Landfill Sites

There are no Historic Landfills sites within 1km of the Shipley Lakeside Development presented within the Envirocheck report (41021474_1_1).

3.9 Licensed Waste Management Facilities

There are no Licensed Waste Management Facilities within 1km of the Shipley Lakeside Development presented within the Envirocheck report (41021474_1_1).

3.10 Radon

The Envirocheck report (41021474_1_1) indicates that the main area of the site is 'in a radon affected area, as between 1 and 3% of homes are above the action level'. The north eastern most area of the site is 'in a lower probability radon area, as less than 1% of homes are above the action level'. This data is supplied by the British Geological Survey.

It is also noted in the Envirocheck report that "No radon protection measures are necessary in the construction of new dwellings or extensions" anywhere within the site boundary. This is based on data supplied by the British Geological Survey.

3.11 Sensitive Land Uses

The site is within an area of adopted Green belt but benefits from a special planning policy regarding development (EN3 Amber Valley Local Plan, 2006). The site is located within a nitrate vulnerable zone.

4. REVIEW OF HISTORICAL ORDNANCE SURVEY MAPS

A summary of historical land uses for the site are presented in Table 5. These tables describe significant changes in industry and land development within the site boundary from 1884 / 1886 to present day, and significant developments within 250m of the site boundary. This discussion of historical land use is focused primarily on contaminative land use, and where appropriate, major contaminative land uses up to 2km from the site have been included.

The following table describes the main features present on and in the vicinity of the development site. Where dates are given, these refer to dates of maps on which the features appear, and do not necessarily refer to the exact date of operation of any particular facility.

Table 5 Review of OS Historical Maps

Date	Scale	Description	
		Within Site Boundary	Outside Site Boundary
1881	1:2,500	Railway lines are present within the northern site boundary. Sawyer's Coppice is in north western corner of the site. Shipley Colliery (Woodside Pit), with at least 3 named shafts, is present in the north eastern corner of the site. Mineral Railway crosses the site in a north south direction. Meynell's Coppice present in eastern area of the site. Fish Pond present in centre of the site.	Shipley Colliery is shown adjacent to the northern boundary to the site. Brick Yard and mineral railway present to the south of the southern site boundary. Gas works present to south of Fish Pond dam
1884 – 1886	1:10,560	The north eastern half of the site is presented on a map which is missing. The site is composed of agricultural fields in the west, centrally covered by a lake called Fish Pond, and to the east includes woodland called Meynell's Coppice	Offsite adjacent to the southern site boundary is a Gas works and Brick Yard, which are served by a railway line and sidings referred to as Shipley Wharf. At approximately 1.2km south there are Airshafts which are probably part of Nutbrook Colliery located approximately 1.75km to the south. Further coal mining was being undertaking at this time to the north west in respect to Shipley Colliery.
1885	1:10,560	This map represents the half of the site which was missing in the previous date range. There is evidence for an old shaft present on site, which is located adjacent to the eastern site boundary, immediately south of the proposed access road. This shaft appears to be associated with Shipley Colliery (Woodside Pit). There are also several railway lines and sidings associated with Shipley Colliery which crosses onto the site.	Offsite but immediately adjacent to the site boundary, are the workings associated with Shipley Colliery. This colliery is split into two sites: the main colliery on the northern site boundary and the Woodside Pit located historically between the access road and the eastern spur of the site. At further distances from the site the land use is primarily dedicated to agriculture.

Date	Scale	Description	
		Within Site Boundary	Outside Site Boundary
1900	1:2,500	Railway line now referred to as a Mineral Railway within northern site boundary. Sawyer's Coppice is now called Dog Kennel Coppice is in north western corner of the site. Colliery spoil heap present to south of Woodside Colliery. Mineral Railway has an additional line.	Shipley Offices and Workshops present to the north of the northern site boundary. Slight changes to layout of Brick Yard buildings. Railway sidings to the south of the site. Additional tanks associated with Gas Works
1901	1:10,560	There has been some expansion of the Woodside pit onto the site as previously described (1885). This is now referred to as Woodside Colliery. Most notably a railway line has been constructed adjacent to the east of the Fish Pond which runs north to south across the site. This is referred to as the Heanor Branch Line.	As detailed on site, the major off site changes are in relation to the expansion of the Woodside and Shipley collieries, and the construction of the Heanor Branch Line.
1915	1:2,500	A tank is shown on southern side of Mineral Railway in north western area of the site. Woodside Colliery and associated mineral railway sidings still present. Brick Yard no longer present.	Gas works no longer named area covered by Railway Sidings. No significant changes.
1921	1:10,560	There has been further expansion of Woodside colliery on to the site (1885), which has notably included the construction of buildings.	There has been a large increase in the amount of sidings associated with the gas works adjacent to the southern boundary of the site.
1938	1:2,500	Southern part of Dog Kennel Coppice covered by colliery spoil heap. Additional buildings associated with Woodside Colliery including baths tanks filer beds. Colliery spoil deposited to the south of Woodside Colliery.	Omnibus depot present to the north east adjacent to site entrance along main road. Residential development along Hassock Lane North. No other significant changes.
1938	1:10,560	Part of Meynell's Coppice on the eastern half of the site appears to have been covered over by spoil, originating from Woodside Colliery.	Minor expansion of both Woodside and Shipley collieries.
1955	1:10,000	The spoil heap south of Woodside Colliery has continued to increase in size covering a further area of Meynell's Coppice. Dog Kennel Coppice has been partially been covered in spoil. Sidings have been constructed in association with the Heanor Branch Line which runs across the site.	Many of the sidings associated with the gas works adjacent to the southern boundary of the site, have been demolished. An opencast mine is labelled to be present south east of site, however the boundary of this is not defined.

Date	Scale	Description	
		Within Site Boundary	Outside Site Boundary
1962	1:2,500	Significant area of the north western part of the site is covered by colliery spoil. Mineral Railway has additional tracks and a Mine is shown to be present on the southern side of the Mineral Railway. A drain is shown to cross the site at the southern end of the colliery spoil. Area covered by colliery spoil heap increased and reducing size of the Fish Pond. Additional buildings associated with Woodside Colliery.	Buildings to the north of the site boundary present but no longer named. Number of lines within Railway Sidings to south of the site reduced.
1966	1:10,000	The spoil heap south of Woodside Colliery which covered over Meynell's Coppice, has not increased in size spatially, but could have increased in height. Dog Kennel Coppice has been completely covered over with spoil, which has also reduced the size of the Fish Pond lake to the north.	An area of opencast workings is designated approximately 385m offsite to the south east.
1966	1:10,000	A duplicate map is presented in the Envirocheck report which only covers the area north-west of the site. This is identical to the map discussed above for 1966.	
1973 - 1977	1:10,000	Mapping for the entire site, and the area adjacent to the west and anticlockwise to the south, is not available for comment.	A note is included on the map indicating that "Active Workings" are present to the south east of the site, which has resulted in the partial clearing of Shipley Wood. As the majority of the on site mapping this is assumed to be between 0 and 50m from the site boundary.
1975	1:10,000	No mapping for the site and adjacent area is available for comment.	
1978 – 1986	1:2,500	All evidence of coal mining buildings, railways and spoil heaps, associated with Woodside Colliery, are no longer presented on the mapping and have been replaced with blank areas referencing Disused workings. However, Woodside Pumping Shaft noted and Electricity Sub-station. Fish Pond lake has been re-modelled and an island created and is now referenced as Shipley lake.	Shipley Colliery appears to have been decommissioned, and replaced with a school and factory. Omnibus Depot no longer present. No other significant changes. Railway lines and sidings no longer present to the south of the site.
1981 - 1987	1:10,000	No significant changes.	A miniature railway has been constructed on the site of Woodside colliery. All Railway sidings adjacent to the south of the site have been dismantled. The "Active Workings" associated with the clearance of Shipley wood, no longer exist and are referenced as Shipley Park. Further opencast workings are being undertaken approximately 600m south of the site.

Date	Scale	Description	
		Within Site Boundary	Outside Site Boundary
1988 – 1989	1:2,500	A Theme Park (The American Adventure) has been constructed on site. The associated buildings and rides are generally located around the eastern side of Shipley lake. Additional Electricity substation present associated with Theme Park	Car parking area adjacent to site boundary. No significant changes.
1990 - 1992	1:10,000	No significant changes.	A series of 6 lagoons have been constructed approximately 550m off site to the south.
1991	1:2,500	Theme Park buildings extended to western area of site. No other significant changes.	Builder's yard is present to the north of the site.
1991	1:10,000	No mapping for the site and adjacent area is available for comment.	
1993	1:2,500	No significant changes.	No significant changes.
1995	1:2,500	No significant changes.	No significant changes.
2006	1:10,000	Further development of rides and attractions has occurred in the intervening years. Development has continued around the entire lake at this time particular the western side.	No Significant Changes
2012	1:10,000	The Theme park has been decommissioned leaving open space with no discernable land use on the site.	No Significant Changes

5. CONCEPTUAL SITE MODEL

Current legislation relating to contaminated land in the UK is contained within Part 2A of the Environmental Protection Act 1990, which was inserted by section 57 of the Environment Act 1995, and by section 86 of the Water Act 2003.

The "suitable for use" approach is adopted for the assessment of contaminated land where remedial measures are only undertaken where unacceptable risks to human health or the environment are realised taking into account the use (or proposed use) of the land in question and the environmental setting.

Current best practice recommends that the determination of health hazards due to contaminated land is based on the principle of risk assessment, as outlined in Part 2A of the Environmental Protection Act 1990.

The risk assessment process for the environmental contaminants is based on a source-pathway-receptor analysis. These terms can be defined as follows:

- Source: Hazardous substance that has the potential to cause adverse impacts;
- Pathway: Route whereby a hazardous substance may come into contact with the receptor: examples include ingestion of contaminated soil and leaching of contaminants from soil into watercourses;
- Receptor: Target that may be affected by contamination: examples include human occupants/users of site, water resources (surface waters or groundwater), or structures.

For a risk to be present, there must be a viable pollutant linkage; i.e. a mechanism whereby a source impacts on a sensitive receptor via a pathway.

The following sections detail the conceptual site model which has been developed for the site with the view to assessing the potential risks during construction and upon completion of the proposed new development. The potential sources of contamination, potential receptors and potential pollutant pathways are identified (and are presented in Tables 6 to 8) for the site. The associated pollutant linkages between these sources, pathways and receptors are presented in Table 9.

5.1 Sources of Potential Contamination

Table 6 lists sources of potential contamination at the site of the proposed development.

Table 6 Description of Potential Sources

Potential Source	Description
Made Ground	Potentially present within reworked open cast coal mining overburden. Also their may be the potential for leaks, spills and emissions from equipment used within the former American Adventure theme park. There may be asbestos containing materials associated with building rubble or services used by the former American Adventure theme park or from colliery rubbish that could have been deposited within colliery spoil formerly present at the site surface.
Natural Strata	The natural strata will consist of reworked Pennine Coal Measures which was excavated overburden during the open cast coal mining. The BGS map sheet 125 Derby indicates the presence of Alluvium in the northern area of the site.
Soil Leachate	Potential contaminants may be leached from made ground / re-worked natural ground sources at the site.
Groundwater	Further Perched / shallow groundwater may be present within the reworked natural ground. The groundwater within the Middle Coal Measures has possibly been impacted by coal mining in the area.
Ground Gas	Concentrations of ground gases (methane and carbon dioxide) could originate from the reworked Pennine MCM Formation (overburden) and any Made Ground Colliery Spoil that may also have been used to fill the open cast mine in the 1970s.
Offsite Sources	Leaks, spills and emissions from surrounding sources e.g. former gas works to the south of the site.

5.2 Potential Receptors

Table 7 lists potential receptors at the site of the proposed development.

Table 7 Description of Potential Receptors

Potential Receptor	Description
Flora and Fauna	On-site flora and fauna, including landscaped areas in the proposed development may be affected by the presence of elevated concentrations of certain determinands.
Development Infrastructure	Concrete is a receptor of chemical aggressivity in contaminated soils with a low pH and high sulphate concentrations. Plastic piped services can be adversely affected by the presence of hydrocarbons, where the integrity of the pipes can be compromised. This can lead to penetration of the pipes by mobile contaminants.
Future Site Users	Includes occupants of the residential properties, workers within the commercial developments and site visitors.
Construction workers	Exposures experienced by construction workers are much less than for future site users due to the limited period of exposure. Construction workers are therefore not considered as sensitive receptors.

Potential Receptor	Description
Off-site receptors	This includes residents of near-by properties and the ecology of the Derbyshire Wildlife Trust Woodside site to the south of Shipley Lake.
Controlled Waters	Shipley Lake. Watercourse exiting Shipley Lake. Water bodies at Mapperly. The underlying Secondary A aquifer.

5.3 Potential Pathways

Table 8 provides a summary of the potential pathways associated with identified sources considered most appropriate to the site in its developed condition:

Table 8 Description of Potential Pathways

Potential Pathway		Description
Soil Pathway Including the following sources • Made Ground • Soil Derived Leachate • Natural Strata	Dermal Contact	Dermal contact with contaminated soils, soil derived dust, soil leachate and perched groundwater.
	Direct Contact	Direct contact of building materials with contaminated soils, soil leachate and perched groundwater.
	Ingestion	Direct or indirect ingestion of soil and soil derived dust.
	Inhalation	Inhalation of soil derived dust, organic vapours or ground generated gas.
	Plant Uptake	There is the potential for plants in landscaping areas to be affected by soil contamination, where present, due the uptake of contaminants via the roots.
Groundwater Pathways Including the following sources: • Soil Leachate • Perched Groundwater • Impacted mine water • Offsite Sources	Rainfall Infiltration & Vertical / Lateral migration via permeable strata and service conduits	Rainfall infiltration can generate and mobilise soil-derived leachate impacting on surface waters and groundwater. Perched groundwater within the site is likely to flow towards Shipley Lake which is considered to be a sensitive controlled water receptor. Migration of impacted mine water reaching the development if the pumping station is closed.
	Lateral Migration through Aquifer	As well as being a receptor, aquifers allow transportation of contaminants through the permeable strata.
Gas Pathways Including the following sources: • Ground gas	Vertical / Lateral Migration via permeable strata.	Permeable strata and service trenches may allow transportation of ground gases.

5.4 Potential Pollutant Linkages

The potential pollutant linkages and associated risks identified for the site in its proposed use as a residential and commercial development with associated infrastructure and landscaping are summarised in Table 9.

Table 9 Potential Pollutant linkages

Source		Pathway		Receptor
Diffuse metal, inorganic and organic contamination within the Made Ground / Natural Strata		Ingestion of contaminated soil Inhalation/ingestion of soil derived dust Inhalation of organic vapours Direct contact with soils/dusts Plant uptake		Future Site Users Construction Workers Development Infrastructure Off-Site Receptors Flora and Fauna
Generated leachate from Made Ground		Leaching into groundwater and migration to surface watercourses Plant uptake		Surface Watercourses Perched Groundwater Flora and Fauna
Contaminants in groundwater		Migration and diffusion Plant uptake		Surface Watercourses and water bodies Deeper Groundwater (in Secondary 'A' Aquifer) Flora and Fauna
Impacted mine water		Vertical Migration if not controlled by Coal Authority pumping system		Surface Watercourses and water bodies Development Infrastructure Flora and Fauna
Ground Gases		Migration and diffusion via permeable strata Plant uptake		Future Site Users Construction Workers Development Infrastructure Flora and Fauna

6. ENVIRONMENTAL RISK ASSESSMENT

6.1 General

From information obtained for the desk study, a conceptual site model was developed for the site, as detailed in Section 5. Based on the subsequent risk assessment, the various components of the model are discussed in the following sections and take into account the site in its current condition and potential future use as a mixed residential and commercial development. An assessment of the various pollutant linkages is presented in Tables 13.

6.2 Risk Assessment Principles

Current best practice recommends that the determination of hazards due to contaminated land is based on the principle of risk assessment, as outlined in Part 2A of the Environmental Protection Act 1990.

For a risk to be present, there must be a viable pollutant linkage; i.e. a mechanism whereby a source impacts on a sensitive receptor via a pathway. The potential pollutant linkages that have been identified for this site are presented in section 5.

Assessments of risks associated with each of these pollutant linkages, following review of available information for the site is discussed in the following sections.

Using criteria broadly based on those presented in Section 6.3 of the CIRIA Report "Contaminated Land Risk Assessment: A Guide to Good Practice" (CIRIA Report C552) the magnitude of the risk associated with potential contamination at the site has been assessed.

To do this an estimate is made of:

- the potential severity of the risk;
- the likelihood of the risk occurring.

The severity of the risk is classified according to the criteria in Table 10.

Table 10 Severity of risk

Severity	Description
Severe	Acute risks to human health likely to result in "significant harm" (e.g. very high concentrations of contaminants / ground gases) Catastrophic damage to buildings/property (e.g. by explosion, sites with high gassing potential, extensive VOC contamination) Major pollution of controlled waters (e.g. surface watercourses or Principal aquifers/source protection zones) Short term risk to a particular ecosystem
Medium	Chronic (long-term) risk to human health likely to result in "significant harm" (e.g. elevated concentration of contaminants/ground gases) Pollution of sensitive controlled waters (e.g. surface watercourses or Principal / Secondary aquifers) Significant effects on sensitive ecosystems or species
Mild	Pollution of non-sensitive waters (e.g. smaller surface watercourses or Unproductive Strata) Significant damage to crops, buildings, structures or services (e.g. by explosion, sites with medium gassing potential, elevated concentrations of contaminants)
Minor	Non-permanent human health effects (requirement for protective equipment during site works to mitigate health effects) Damage to non-sensitive ecosystems or species Minor (easily repairable) damage to buildings, structures or services (e.g. by explosion, sites with low gassing potential)

The probability of the risk occurring is classified according to criteria given in Table 11 below.

Table 11 Probability of Risk Occurring

Probability	Description
High likelihood	Pollutant linkage may be present that appears very likely in the short-term and risk is almost certain to occur in the long term, or there is evidence of harm to the receptor
Likely	Pollutant linkage may be present, and it is probable that the risk will occur over the long term
Low likelihood	Pollutant linkage may be present and there is a possibility of the risk occurring, although there is no certainty that it will do so.
Unlikely	Pollutant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable.

An overall evaluation of the level of risk is gained from a comparison of the severity and probability, as shown in Table 12 below.

Table 12 Comparison of Severity and Probability

		Severity			
		Severe	**Medium**	**Mild**	**Minor**
Probability	**High Likelihood**	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/Low	Low
	Low Likelihood	Moderate	Moderate/Low	Low	Very Low
	Unlikely	Moderate/Low	Low	Very Low	Very Low

6.3 Evaluation of Risk

6.3.1 *General Risk Assessment*

An evaluation of the potential risks associated with the identified sources at the site to the various receptors is discussed and presented in the following section. The level of risk is determined based on the current condition of the site (i.e. the effects of mitigation measures are not included) and takes into account the outline development proposals.

The evaluation includes an assessment of the significance of the potential pollutant linkages. Where it is considered that a particular pollutant linkage is not plausible in the context of the site and the proposed development, the overall risk is determined as very low.

Table 13 Risk Evaluation of Potential Pollutant Linkages

Source	Pathway	Receptor	Potential Pollutant Linkage	Risk Evaluation		
				Severity	Source	Pathway
Contaminants in Made Ground / Natural Strata	Direct contact/ ingestion / inhalation	Future Site Users (Residential)	**Y**	Medium	Low likelihood	Moderate / Low
	Direct contact/ ingestion / inhalation	Future Site Users (Commercial)	**Y**	Mild	Low likelihood	Low
	Direct contact/ ingestion / inhalation	Construction Workers	**Y**	Minor	Likely	Low
	Infiltration/ Migration	Controlled Waters	**Y**	Medium	Low likelihood	Moderate / Low
	Direct contact	Development Infrastructure	**Y**	Minor	Likely	Low
	Inhalation of vapours/ dusts	Off-Site Receptors	**Y**	Minor	Unlikely	Very Low
	Direct contact / uptake	Flora & Fauna	**Y**	Mild	Low likelihood	Low
Contaminants in Leachate / Groundwater	Direct contact/ ingestion / inhalation	Future Site Users (Residential)	**Y**	Mild	Low likelihood	Low
	Direct contact/ ingestion / inhalation	Future Site Users (Commercial)	**Y**	Mild	Low likelihood	Low
	Direct contact/ ingestion / inhalation	Construction Workers	**Y**	Minor	Likely	Low
	Infiltration/ Migration	Controlled Waters	**Y**	Medium	Low likelihood	Moderate / Low
	Direct contact	Development Infrastructure	**Y**	Mild	Low likelihood	Low
	Infiltration/ Off-Site Migration	Off-Site Receptors	**Y**	Medium	Low likelihood	Moderate / Low
	Direct contact / uptake	Flora & Fauna	**Y**	Mild	Low likelihood	Low
	Direct contact/ ingestion / inhalation	Future Site Users (Residential)	**Y**	Mild	Low likelihood	Low
Impacted mine water	Vertical increase in level	Surface Watercourses and water bodies	**Y**	Medium	Low likelihood	Moderate / Low
	Vertical increase in level	Development Infrastructure	**Y**	Mild	Low likelihood	Low
	Vertical increase in level	Flora and Fauna	**Y**	Mild	Low likelihood	Low
Ground Gases	Migration & Inhalation / Explosion	Future Site Users (Residential)	**Y**	Medium	Likely	Moderate
	Migration & Inhalation / Explosion	Future Site Users (Commercial)	**Y**	Mild	Likely	Moderate / Low
	Migration & Inhalation / Explosion	Construction Workers	**Y**	Mild	Likely	Moderate / Low
	Migration & Explosion	Development Infrastructure	**Y**	Minor	Likely	Low
	Migration & Inhalation / Explosion	Off-Site Receptors	**Y**	Minor	Low likelihood	Very Low
	Direct contact/ uptake	Flora & Fauna	**Y**	Minor	Low likelihood	Very Low

6.4 Evaluation of Risks to Future Site Users

The risk to future site users (residential) is considered to be moderate to low. The risk to future site users (commercial) is considered to be moderate/low to low.

Areas of soft-standing where future site users (residential) could come into direct contact with the underlying soils will be limited to garden spaces and areas of landscaping around the development. The size of the gardens within the proposed residential properties is not as yet determined. However, there is the potential for their use in cultivating fruit or vegetables for home consumption. This would introduce a pathway for contaminants to be ingested. Tracking of soil from gardens into homes could also introduce another pathway for contaminants to be ingested or inhaled (one the soil has dried).

The future site users (commercial) could come into direct contact with the underlying soils in areas of landscaping around the development.

There is potential for ground gas to be sourced from the underlying abandoned mine workings and from the overburden and other made ground materials used in the backfilling of the open cast coal mine. Pathways for gas migration are likely to be present as the overburden backfill is likely to contain a variety of cohesive and granular materials, which will have a variety of permeabilities. This could introduce a considerable variation across the site as to where ground gas could migrate to the surface. There are also a number of mine shafts in the northern portion of the site, for some of which there are no details of any capping works.

It is considered that the risk to maintenance workers accessing underground utilities will also be low as it is assumed they will be wearing appropriate PPE and monitoring the atmospheric conditions, and that entry into underground structures should comply with confined space legislation and assessed prior to entry.

It should be noted that to date, no ground gas monitoring has been undertaken at the site. This monitoring would be required to assess the gas regime for the site.

6.5 Evaluation of Risks to Construction Workers

The assessment has identified a low risk to construction workers at the site. This takes into consideration that whilst construction/site workers might be expected to come into contact with soils, the use of personal protective equipment will be a pre-requisite to them being on site.

Prior to work commencing, a health and safety risk assessment should be carried out in accordance with current health and safety regulations. This assessment should cover potential risks to both construction staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the course of the earthworks.

It is considered prudent that entry into excavations should comply with confined space legislation and assessed prior to entry.

6.6 Evaluation of Risks to Off Site Receptors

The potential risk to off-site receptors is considered to be moderate/low to very low.

Any risks to local off-site receptors would be associated with off-site migration of contamination, for instance, in the form of wind-blown dust and organic vapours. Exposure via inhalation of dust is considered to be negligible for off-site receptors following development works, and as such there is not considered to be plausible pollutant linkage. The greatest

potential for generation will be during the construction phase. Dust generation should be kept to a minimum in accordance with general best practice, as outlined in, for example, "Environmental Good Practice on Site", 3rd Edition, CIRIA Publication C692. Overall the risks to off-site receptors from on-site soil derived dusts are considered to be Very Low.

The potential risk to off-site receptors by contaminants within leachates and/or groundwater is considered to be a moderate/low risk due to the presence of nearby minor watercourses and water bodies that could carry contaminants to sensitive receptors, such as the Derbyshire Wildlife Trust Woodside site to the south.

6.7 Evaluation of Risks to Controlled Waters

The risks to controlled waters are considered to be moderate to low. This is due to the potential for areas of soft-standing such as gardens that could allow the migration of surface water into made ground deposits producing leachates. A significant water body is also present in the centre of the site and a number of minor watercourses are present in the surrounding area. Therefore, migration of contaminants, through leachate migration and/or soil erosion, into these water bodies could potentially impact other surface waters in the area.

In terms of groundwater, the risk is considered to be low as the Pennine MCM underlying the site is a Secondary 'A' aquifer, the site contains significant depths of reworked mudstone, siltstone and sandstone materials following the open cast coal mining. There are no source protection zones within 5km of the site. There is an abstraction point 125m to the north-west. However, this location is considered to be up-gradient of the site.

As there is a mine water pumping station close to the boundary of the site there is considered to be a moderate/low risk of impacted mine water affecting surface water bodies in the area. This impact may occur if the mine water level increases substantially for instance if the pumping station is no longer used. However, at this stage there is no indication that the pumping station will not be in use, as the continued pumping is a statutory requirement of the Coal Authority.

6.8 Evaluation of Risks to Development Infrastructure

The risks to the development infrastructure from soil, leachate and groundwater contaminants have been classed as low. It is assumed that any potential risks would be mitigated by using concrete and service pipes appropriate for aggressive ground conditions where identified at the site. The local potable water supplier should be contacted to identify their requirements for laying potable water supply pipes within brownfield sites.

The risks to the development from ground gases are considered to be low based on the underlying Pennine MCM solid geology and overburden. However, there is potential for ground gas to be sourced from the underlying abandoned mine workings and from the overburden and other made ground materials used in the backfilling of the open cast coal mine. It is anticipated that appropriate gas protection measures, where ground gas monitoring results indicate that protection is necessary, will be sufficient to mitigate this potential risk.

The risk of subsidence caused by shallow mining beneath the site has been considered in a separate Coal Mining Risk Assessment presented in Chapter 8.

The impact of rising mine water levels is considered to be low as at this stage, see section 6.7.

6.9 Evaluation of Risks to On site Flora and Fauna

The risks to flora and fauna on the site have been classified as low to very low. There is existing on-site flora and fauna that could be affected. However, the majority of the flora will have been planted by the owners of the former theme parks that have been present on site. Future on-site flora will be dominated by planting introduced during landscaping and it is assumed that the species chosen will be suited to the site environment. Suitably designed landscaping with sufficient depth of cover above any contaminated deposits, possibly in conjunction with a separator layer, should be possible to mitigate any adverse effects that are identified through investigation.

The impact of rising mine water levels is considered to be low at this stage, see section 6.7.

7. PRELIMINARY GEOTECHNICAL APPRAISAL

7.1 General

The history of the site is shown to have been connected to coal mining for over a century. The Shipley and Woodside Collieries were present to the north and north east. Colliery spoil was deposited in the northern and eastern area of the site and railway sidings associated with the colliery were also present in the eastern part of the site. The site generally forms a three sided bowl with the western, northern and eastern boundaries significantly higher than the lake.

In the 1970s the site was open cast mined for coal in the Mainsmut, Comb and Top Hard Coal seams and then backfilled with the overburden which may also have contained the colliery spoil materials that had been deposited on the site from the underground mining. The restoration of the site following the open cast mining developed the site as a theme park. The site was used as a theme park until 2006. The theme park included a wide range of buildings and rides of which the concrete bases and foundations are still present around the lake.

A number of potential geotechnical issues have been identified that will need to be investigated further and addressed in the design and construction of the proposed new development. These are discussed in the following sections. The exception is the risk posed by potential shallow mine workings that has been assessed as a stand-alone item in Chapter 8. The following geotechnical risks should therefore be read in conjunction with Chapter 8.

7.2 Weak and Compressible Ground

The site has had an extensive industrial use (mineral extraction) from at least 1884 to the mid 1970s. Open cast coal mining and restoration of the site using overburden materials to fill in the open cast excavation was carried out. Open cast mining extended to approximately 30m - 35m bgl.

The main sources of geotechnical hazards are:

- Potentially compressible open cast mine backfill. The standard of backfilling and the strength and compressibility of the backfill is unknown at this stage.
- Various made ground deposits out with the opencast site which may have been engineered or compacted in the previous developments
- The position, depth and conditions along and either side of the opencast high wall, which may give rise to contrasting strength and compressibility in the strata across the high wall. From available information a high wall may be present adjacent to the northern boundary to the site.
- The presence of any alluvium if remaining out with the various colliery infrastructure and opencast.

7.3 Buried Foundations

The likelihood of unknown buried foundations being present is relatively low as the site has not undergone multiple phases of redevelopment. Foundations and floor/base slabs of buildings and rides associated with the American Adventure Theme Park are still in-situ but are expected to be removed during the earthworks stage for the proposed development.

Waystone Developments Limited has also been provided with copies of the building layouts of the two former parks at the site. It is intended that all of the former foundations and floor slabs will be broken out during the earthworks stage of the development. These materials can be re-used within the development, where they comply with the development related earthworks

specification, for instance as sub base for roads and paths. There may be the possibility of buried foundations remaining from the buildings associated with the earlier Britannia Park.

Buried foundations can represent hard spots within the ground. This can cause delays where they are encountered, unforeseen, in initial foundation ground works as they need to be broken out. When left in place, buried foundations can also promote differential settlement in new structures, leading to cracking and damage to the new construction.

7.4 Aggressive Ground Conditions

There are two types of aggressive ground conditions that may be present at the site.

The first relates to natural sulfates that, in sufficient quantities, may be aggressive to concrete and steel causing degradation and damage. This can be overcome through the specification of more resistant concrete and anti-corrosion measures on steel, but requires testing and assessment of the soils beneath the site in order to determine the level of risk.

An increase in the presence of sulfate concentrations may have occurred following the deposition of colliery spoil materials and the open cast coal mining of the site. The sulphide bearing minerals within the Pennine Middle Coal Measures will have been exposed to air and water allowing oxidation of the iron pyrites (FeS_2) into sulfate salts within the re-deposited Pennine Coal Measures overburden and colliery spoil.

The second area of potential for aggressive ground condition relates to contamination. This can affect several areas of construction but a common example is where hydrocarbons are present in soil that can cause damage to plastic utility pipes. These issues have been considered in more detail in the Environmental Risk Assessment presented in Chapter 6.

8. COAL MINING RISK ASSESSMENT

8.1 General

8.1.1 *Purpose*

Since January 2011, the Coal Authority has been a statutory consultee for planning applications. In areas of historical coal mining, they have designated Mining Development Referral Areas and any site falling within such an area now requires a Coal Mining Risk Assessment to be undertaken to inform the planning application. As a statutory consultee, the Coal Authority is required to review and approve the risk assessment in order for the planning application to proceed.

Mining development referral plans available through the Coal Authority's website confirm that the Shipley Lakeside site is located in a Mining Referral Area and as such, a Coal Mining Risk Assessment is required.

8.1.2 *Methodology*

The risk assessment is required to go through three stages as follows:

- Obtain coal mining information;
- Identify what risks coal mining poses to the proposed development; and
- Identify how coal mining issues have influenced the proposed development and whether any other mitigation measures are required.

The overall aim of the report is to identify the mining risks present on site, if any, and to recommend further actions in order for the site to be developed safely without influencing or being influenced by any coal mine workings.

8.2 Sources of Coal Mining Information

8.2.1 *Site History*

There is a long history of coal mining in this area of the east midlands, with the Shipley Lakeside site located in the close vicinity of two former collieries. The Shipley Colliery and the Woodside Colliery are both located within the site boundary. The Nutbrook Colliery is located approximately 1.75km to the south of the site.

Shallow coal seams have been mined at the site by opencast methods in the early 1970s. There has been extensive open cast coal mining in the wider Shipley Country Park site.

Deep mining has taken place beneath the site and a mine water pumping station is located close to the northern site boundary and associated treatment / settlement ponds are located approximately 500m to the south east of the site.

8.2.2 *Coal Mining Report*

A Coal Mining Report (reference number 51000150250001) has been obtained for the site and is presented in Appendix C.

The report provides a general overview of the coal mining history of the site, the presence of current and potential for future coal mining, and comments on other associated risks such as reported ground stability issues and mine gas.

The reports show there are 12 mine entries present within, or within 20m of the site boundary.

8.2.3 *Mine Abandonment Plans*

The Coal Mining Report states that mine workings are present at shallow to 470m depth and were last worked in 1964. It is known that open cast coal mining was undertaken during the early 1970s. The open cast coal mine extended to a depth that allowed it to extract coal from the Dunsil, Lower Comb, Top Hard and Mainsmut seams (Coal Authority, 2012) which was between 30m to 35m bgl.

The Shipley, Woodside and Coppice Collieries have mined the following coal seams the area of the Shipley Lake site:

Comb and Top Hard - Coppice	**Piper** - Woodside
Dunsil - Woodside	**Low Main** - Coppice
Waterloo – Shipley, Woodside	**Three-Quarter** - Coppice
Second Waterloo - Coppice	**Blackshale** – Coppice
Roof Soft - Woodside	**Ashgate and Mickley** - Coppice
Deep Soft – Shipley, Woodside	**Kilburn** – Coppice, Woodside
Deep Hard – Coppice, Shipley, Woodside	

The following coal seams (not in depth order) have been mined by open cast techniques in the Shipley Lake area:

Shipley Lake Open Cast	**Seam above Top Hard, Top and Lower Comb, and Top Hard**
Shipley Lake (including Slack Lane) Open Cast	**Seam above Top Hard and Top Comb, Lower Comb, Top Hard, Dunsil**
Shipley South and Northwest Extension Open Cast	**First Waterloo Upper, First Waterloo Lower, Waterloo Marker, Second Waterloo Upper, Second Waterloo Lower and Third Waterloo**

The general order of coal seams in the area (those in bold are known to have been worked in and in the vicinity of the site based on information obtained from the Coal Authority) was as follows:

Mainsmut
Comb
Top Hard *(ca. 31m bgl at Woodside Colliery)*
Dunsil *(ca. 48.2m bgl at Woodside Colliery)*
First Waterloo (Top First Waterloo, Bottom First Waterloo, Waterloo Marker) *(ca. 52.6m bgl at Woodside Colliery)*
Second Waterloo (Top Second Waterloo, Bottom Second Waterloo)
Third Waterloo
Fourth Waterloo
First Ell
Second Ell
Brown Rake
False Ell (Top Soft, **Roof Soft**)
Deep Soft
Deep Hard *(ca. 216m bgl at Woodside Colliery)*

First Piper
Second Piper
Hospital
Tupton (Cockleshell, **Low Main**, **Three-Quarters**)
Yard
Blackshale (Blackshale Upper Leaf, Black Shale Lower Leaf)
Ashgate (Ashgate Upper Leaf, Ashgate Lower Leaf)
Mickley Thin
Morley Muck
Kilburn *(ca. 450m bgl at Woodside Colliery)*

8.2.4 *Geological Maps and Memoirs*

Geological maps produced by the British Geological Survey have been obtained and reviewed. The 1:50,000 scale geological map, Sheet 125 – Derby was checked and reviewed against the most recent geological mapping viewable with the BGS GeoIndex online tool. The Memoir accompanying the BGS Sheet 125 'The Geology of the country north of Derby' (Frost, 1979) was also reviewed.

The maps indicate that superficial deposits of Alluvium are (were) present in the northern area of the site. The remainder of the site will have contained weathered materials of the underlying solid geology. The solid geology is recorded as the Pennine Middle Coal Measures. This typically comprises cyclic sequence of mudstone, siltstone, sandstone, coal and seatearth.

A coal seam is shown to have outcropped in the western half of the site which was the Dunsil Coal seam and a second is shown to have outcropped in the south eastern areas of the site, which was the Comb and Top Hard Coal.

No geological faults are recorded within the boundary of the site.

8.2.5 *Borehole Logs*

BGS records show that there are 2 main borehole records in the vicinity of the site. Other boreholes are noted but appear to be extracts from a Coal Report from the 1990s and indicated the location of mineshafts within the site but no logs are available.

The two main records refer to the locations of mineshafts. These records relate to the two main shafts of the Shipley (Woodside) Colliery. The mine shaft to the east of the site extended to 469m bgl and is located at National Grid Reference SK444890, 344450. The mineshaft to the north of the site extended to 223m bgl when it was sank in 1817 and is located at National Grid Reference SK444400, 344800.

8.3 Risks Posed by Coal Mining to the Proposed Development

8.3.1 *Introduction*

The Coal Authority requires that several questions are considered for a Coal Mining Risk Assessment. The following sections address each question and provide answers based on the coal mining information that has been reviewed.

8.3.2 ***Are there recorded coal mine entries within the site or within 20 metres of the site boundary?***

Twelve (12) mine entries are recorded within the site or within 20 metres of the site boundary. This information was provided within the Mining Report. The locations of the mineshafts are shown on Figure 3. The following 8 mine entries are within the development boundary:

444344-021: was partly filled above a constructed stage at a depth of 265m in March 1973. The shaft was partially removed during opencast mining and was subsequently capped by the NCB Opencast Executive 35m below original ground level.

444344-004: No treatment details.

444344-005. Adit - was stopped off with concrete by the NCB Opencast Executive in 1973.

444344-003: No treatment details.

444344-019: has been filled to an unknown specification.

444344-023: was partially removed during opencast mining and was subsequently capped by the NCB Opencast Executive 35m below original ground level.

444344-022: has been filled to an unknown specification and has probably been removed to some extent by opencast mining.

444344-002: No treatment details.

The following four (4) mine entries are outside the development boundary:

444344-017: No treatment details.

444344-018. is unfilled and is used for pumping.

444344-020: No treatment details.

444344-001: No treatment details.

Mine shafts 444344-001 to 44434-005 are located in the north western area of the site. Shaft 444344-001 is located within 20m of the western site boundary. Shafts 444344-017 to 444344-022 are located in the north eastern area of the site. However, shafts 444344-017; 444344-018, 444344-020 are located in the site of the minewater pumping station.

Based on historical maps and information from the Coal Authority regarding the open cast coal mining at the site during the 1970s it is considered that the risk of unidentified mine entries is low as the whole site has undergone open cast coal mining. However, there is a possibility of a high wall within or immediately outside the northern boundary to the site. It is considered that if bell pits were present historically within the boundaries of the site they will have been removed during the open cast coal mining at the site. There is no indication of bell pits present on the earlier historical OS maps of the site.

8.3.3 ***Is the proposed development in the likely zone of influence of past underground coal mining?***

The coal mining report states that the property is within the likely zone of influence of mine workings in ten (10) coal seams at shallow to 470m depth, last worked in 1964.

It also states that coal seams are believed to exist near the surface, subsequently confirmed as the Dunsil, Comb (Upper and Lower), Top Hard and Mainsmut seams on geological maps. It is known that the Mainsmut, Comb and Top Hard coal seams have been mined by open cast methods in the 1970s.

8.3.4 ***Is the proposed development in the likely zone of influence of any present underground coal workings?***

According to the coal mining report, coal extraction is not currently taking place beneath, or within influencing distance of the site.

8.3.5 ***Is the proposed development within the likely zone of influence of underground coal workings at shallow depth (depths of less than 30m)?***

The site is within the likely zone of influence of known or recorded underground coal workings at depths of less than 30m. However, a significant area of the site has been mined by opencast methods in the early 1970s. The open cast mining is understood to have reached and removed the Dunsil, Comb Top Hard and Mainsmut coal seams.

8.3.6 ***Is there a possibility of unrecorded shallow mine workings and/or mine entries?***

There is a very low likelihood that there are coal seams at depths shallower than 30m bgl as information from the Coal Authority indicates that the whole area of the site underwent open cast coal mining in the 1970s. The Coal Seams that are known to have been worked during the open cast mining included the Dunsil, Comb, Top Hard and Mainsmut.

At the former Shipley Colliery (which becomes Woodside Colliery) mine shaft, located to the east of the site, the Upper Comb was present at 21m bgl, the Lower Comb was present at 31m bgl and the Top Hard Coal Seam was noted to be present at 32m bgl (top of seam) to 34m bgl (base of seam). Underlying these seams is the Dunsil Coal (ca. 48.2m bgl). The Dunsil coal seam was noted to be approximately 0.80m thick. The First Waterloo group of seams and the Second Waterloo group of seams underlie the Dunsil coal seam.

At the Shipley Colliery mineshaft to the north of the northern boundary the following coal seams were identified in the shaft record:

- Soft coal and smut (likely Mainsmut) from 105ft to 107ft 10in bgl (ca. 32.0m bgl to 32.9m bgl);
- Top Hard Coal from 144ft 9in to 152ft 1in bgl (ca. 44.1m bgl to 46.3m bgl);
- Dunsil Coal from 206ft 1in to 209ft 1in bgl (ca. 62.78m bgl to 63.7m bgl)

The surface of the mine shaft was noted to be at 280ft OD (ca. 85.3m OD) at the time of its sinking.

It is unclear at this stage how much of difference there is between ground levels at the time of the sinking of these boreholes and those present currently at the site. There is a need to clarify whether there is an adequate depth of competent rock between the base of the infilled open cast mined area and underlying worked coal seams.

If unidentified workings are present in shallow coal seams, the shallow depth makes it likely that the pillar and stall method of working would have been employed. This represents a risk to future development as the pillars of coal within the workings can support the mine void for many years, only to become prone to sudden collapse as they lose strength and degrade over

time. This can manifest as crown holes or surface subsidence that could pose a risk to people and properties.

8.3.7 ***Is there a record of mine gas emissions within the site boundary?***

The Coal Authority has no record of gas emissions within the site that have required action by the authority.

8.3.8 ***Is the proposed development in an area for which the Coal Authority is determining or has granted a license to remove coal by underground methods?***

No. The coal mining report indicates there are no current or pending licenses for local underground extraction.

8.3.9 ***Are there known faults or other lines of weakness due to coal mining at the site?***

The BGS Solid and Drift Map for Derby (Sheet 125) 1:50,000, does not show any faults running across the site, with the closest being approximately 200m to the north of the site, running north from the former Heanor Branch Line in proximity to Hogg's Pond, approximately 600m west, on the western side of Shipley Hall, then clustered to the south of Lodge Farm, at a distance of approximately 750m south of site.

8.3.10 ***Has the site been subject to remedial works by, or on behalf of, the Coal Authority under its surface hazard call out procedures?***

No. The coal mining reports indicate that there have been no remedial works by or on behalf of The Coal Authority, other than the filling or capping of some of the shafts as set out in section 8.3.2.

8.3.11 ***Is the proposed development within the boundary of a surface mining/opencast site from which coal has been removed by surface mining/opencast methods?***

Yes. Opencast coal mining is known to have been undertaken within the boundary of the site based on the information provided in the Mining Report.

An extract from page 104 of the Memoir for BGS Sheet 125 by Frost, D.V. provides some information on the open cast coal mining of the site.

'A somewhat more ambitious project embraces the derelict area around Woodside and Coppice Collieries at Shipley, where the principal seams are the Comb and Top Hard. Large waste heaps and many disused buildings were involved and an extensive country park is taking shape. The scheme includes the recovery of over 1.25 million tons of coal, some of which lay under a lake which has been drained and will be reinstated.'

8.3.12 ***Is the proposed development within 200 metres of a surface mining/opencast site from which coal is being removed?***

No. There are no known surface mines or opencast sites within 200m of the site other than previously restored workings. However, the BGS GeoIndex does show open cast prospecting sites surrounding the Shipley Lakeside site. The potential of the surrounding area for open cast extraction has been assessed in the past.

8.4 Influence of Coal Mining on the Proposed Development

The proposed development is currently at the outline planning stage and is therefore expected to change before final planning approval is obtained. The site plans appended to this report show the current proposals as of September 2012.

On the western side of the site the proposed development will comprise new low-rise residential buildings. On the eastern side there will be a mix of various commercial developments.

Mining risks have not yet been factored into the development layout. However, the whole site has been open cast mined for coal. Based on the information from the Coal Authority it is understood that the open cast mining extended to between 30m and 35m bgl at the time of the works. It is possible that there may be a strip of land along the northern boundary which may not have been open cast mined for coal. This strip of land may also contain a high wall from the open cast mining. The thickness of competent rock between the base of the open cast mine and underlying worked coal seams should be investigated. There are 8 mine entries within the boundary of the site, four of the eight do not have treatment details or have been filled to an unknown specification.

8.5 Mitigation Measures

8.5.1 *Shallow Coal Mine Workings*

It is likely that shallow coal seams at the site will have been worked in the past. However, in the 1970s the site underwent open cast coal mining. It is understood that the Mainsmut, Upper Comb, Lower Comb, Top Hard Coal and Dunsil seams have been extracted during the open cast mining.

If shallow workings are proven by intrusive investigations to be present beneath the base of the open cast coal mine backfill, an assessment of the ground stability risk for the proposed development will be undertaken to determine the requirement for mitigation measures. If mitigation measures are required these may include a programme of consolidation drilling and grouting. This method of infilling the mining voids removes the risk of future ground collapse entirely, although there is a small risk of some residual settlement.

8.5.2 *Mine Entries*

There is reference to 8 mine entries within boundary of the site and 1 mine entry within 20m of the north western boundary and 3 mine entries within 20m of the north eastern boundary to the site. Records show that 2 of these mine entries have been capped as required by the Coal Authority. However, there is no record of either the standard to which 7 have been capped or whether they have been capped. The remaining mine entries 444344-017; 444344-018 and 444344-020 are located off the development plot, see Figure 3. The mine entry 444344-018 is used for pumping of mine water to assist in the control of mine water levels in the regional coal field. The minewater is pumped, in a pipe which crosses the development site, towards minewater treatment ponds/reed beds to the south east of the development.

The location of the mineshafts within the site boundary, which have not been capped, will need to be investigated. The investigation is required to determine whether mitigation measures are needed to safeguard the proposed development.

8.5.3 *Ground Investigation*

Exploratory boreholes positioned around the site are recommended to assess the full extent of the open cast coal mining and to record the thickness of rock to the shallowest coal seam beneath the opencast and whether workings in this coal seam are present.

These should progress to rockhead using either cable percussion technique or open hole rotary technique through the open cast mine backfill and then by rotary coring techniques to allow the competency of the roof rock to be assessed if any mine workings are encountered. Particular attention should be paid to recording the thickness and condition of any coals encountered. Any loss of flush or core, and voiding of strata should also be recorded as these can be indicators of worked ground. Ground gas monitoring installations should be installed on completion of drilling to assess the potential for ground gases at the site.

The above boreholes should be combined with any general geotechnical or geo-environmental site investigations that may be required for the design of the main development. If the results suggest mine workings are present, further exploratory works to delineate their extent may be required, possibly to commence at site clearance stage when access to all areas of the site would be possible. There is the possibility that a high wall is present adjacent to the northern boundary of the site following the open cast mining of the site and this feature should be subject to further investigation. There may be shallow coal seams within this strip of land which have not been mined by open cast methods in the past. The ground investigation will include exploratory holes to determine whether such coal seams are present which may be extractable during the earthworks stage of the proposed development.

The timing of mineshaft investigation could be delayed until the earthworks for the development are undertaken. This would allow the removal of some overburden backfill before the drilling for the mineshaft investigation was undertaken. The investigation of the mineshafts will comply with the guidance within the CIRIA SP 32 ‘Construction over abandoned mine workings’.

9. CONCLUSIONS & RECOMMENDATIONS

9.1 Conclusions

The site has a long association with the coal industry both underground mining and open cast mining. Underground coal mining in the locality ended in the later 1960s. During the 1970s the site was mined by open cast techniques and then restored through backfilling of overburden materials into the open cast excavation, and reinstatement of the lake at the centre of the site.

The Britannia theme park initially occupied the site following its restoration. After this the site was in use as the American Adventure Theme Park which closed in 2006. The site contains substantial quantities of hardstanding, floor slabs and foundations of the buildings and structures associated with the theme park. It also has good vegetation cover away from areas of hardstanding.

It is considered, based on the information obtained, that geo-environmental risks are moderate/low to low, with the exception of the potential moderate risk that ground gas may pose to the occupants of the residential development. The Middle Coal Measures geology and the overburden backfill are potential sources of ground gas at the site. The presence of mineshafts may also provide pathway for mine gases from deeper underground to migrate to the surface. Sources of potential contamination within the site boundaries appear limited. However, there will still be a requirement to obtain environmental samples and chemical testing to confirm this and satisfy the requirement of the Local Planning Authority.

The site is covered by relatively large areas of hardstanding which includes floor slabs, foundation pads/slabs for amusement rides and foundations for buildings and other structures associated with the American Adventure theme park. The ground materials have the potential to be aggressive to concrete materials.

It is understood that there may be approximately 30m to 40m thickness of backfill material from the surface to the base of the open cast excavation across the site. Three mineshafts are present in the northern area of the site for which there are no treatment details. A further two mineshafts have been filled but to an unknown specification. There is the possibility of worked coal seams to be present close to the base of the former open cast excavation.

The main geotechnical issues at the site are considered to be the potential compressibility of the open cast backfill; made ground materials from outside the site may have been deposited (not in engineered manner) within the site; an open cast high wall may be present close to the northern boundary to the site. The Middle Coal Measures geology is likely to contain pyritic minerals.

The main mining issues relate to identifying the current depth to rockhead within the area of the open cast coal mining and determining the thickness of competent rockhead overlying worked coal seams. Underground Coal Mining is considered a risk at this stage which requires investigation. Subsidence risk from old workings remains if there are still shallow pillar and stall workings are present beneath the site. The investigation of mineshafts where the treatment specification is not known may be delayed until the earthworks stage.

A mine water pumping station located at the former Shipley Woodside shaft just north of the site, together with the effluent pipeline which crosses the site, linking the shaft with treatment ponds, approximately 500m to the south east, will remain in place and will require further consideration in the process of design development and planning.

9.2 Recommendations

It is recommended that a phased ground investigation of the site is undertaken to assess the geoenvironmental, geotechnical and mining issues, with particular attention to the following:

- Investigate the nature and extent of the Made Ground / Overburden across the site;
- Investigate the thickness of floor/base slabs at various locations across the site;
- Investigate the nature of the underlying natural strata, where present, including determination of in-situ soil properties;
- Investigate the possible presence of an open cast high wall in the northern area of the site and the possibility of shallow coal measures remaining in this area of the site.
- Investigate depths to rockhead, depth and thickness of coal seams and the potential for coals to have been mined near the current depth of rockhead;
- Obtain soil and groundwater samples for chemical testing and geotechnical testing;
- Install gas and groundwater monitoring wells and undertake monitoring of ground gas concentrations and groundwater levels;
- Undertake a range of suitable soil, leachate and groundwater chemical tests, including BRE sulfate tests.

Any ground investigation would be expected to comprise cable percussion and rotary cored boreholes, and machine-dug trial pits. The most cost effective approach would be to combine the requirements of the geo-environmental, geotechnical and mining assessments into a single investigation. A permit will be required from the Coal Authority for permission to enter or disturb Coal Authority mining interests.

Following the ground investigation, an interpretative report comprising human health, controlled waters and ground gas risk assessments should be undertaken to fully assess the levels of contamination across the site, to identify mitigation measures where required and make recommendations to allow the redevelopment of the site. This report would also review the mining related risks and related geotechnical issues based on the ground investigation results and provide outline guidance on the need for ground improvement and feasible foundation types that may be appropriate at the site.

Depending on the findings of the ground investigation additional ground investigation works would be required to locate untreated mine shafts, to confirm the distribution and severity of levels of contamination encountered and the variability in the ground conditions across the site, and to further derive geotechnical design parameters if uncertainties or wide variations have been identified at the earlier stage.

10. REFERENCES

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File Name : L:\CH_GEOENVIRONMENT\PROJECTS\47061551 SHIPLEY LAKESIDE\2 - PROJECT INFORMATION\2.3 - DOCUMENTS\DRAWINGS\FIGURE 1

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Drawing Title

SHIPLEY LAKESIDE
SITE LOCATION PLAN

Scale @ A4 1:50,000		
Drawn S.Watson	Checked D.Evans	Approved
Date		Rev

Drawing Number
FIGURE 1

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Plot Date : 18/10/2012 09:23:47
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Revision Details	By / Check	Date	Suffix

Project Title: SHIPLEY LAKESIDE

Client: WAYSTONE LTD

Drawing Title: SITE PLAN

Purpose of issue: FINAL

Drawn	Checked	Approved	Date
S.Watson	D.Evans		

URS Internal Project No.: 47061551

Suitability:

Scale @ A3: 1:5000

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Revision Details	By / Check	Date	Suffix

Project Title: SHIPLEY LAKESIDE

Client: WAYSTONE LTD

Drawing Title: APPROXIMATE MINESHAFT LOCATION PLAN

Purpose of issue: FINAL

Drawn	Checked	Approved	Date
S.Watson	D.Evans	D.Evans	10/10/12

URS Internal Project No.: 47061551

Suitability:

Scale @ A3: 1:5000

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File Name : L:\CH_GEOENVIRONMENT\PROJECTS\47061551 SHIPLEY LAKESIDE\2 - PROJECT INFORMATION\2.3 - DOCUMENTS\DRAWINGS\FIGURE 3

APPENDIX A DEVELOPMENT PLAN

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- Native Woodland, Tree and Shrub Planting
- Grassland and Scattered Planting
- Marginal / Aquatic Planting
- Footways and / or Cycleways

Shipley
Shipley Hall Nursing Home
Michael House Steiner Waldorf School
Dog Kennel Coppice
Cricket Ground
School Woods Close
A6007
Pit Lane
Residential
Retirement Village
Lakeside viewpoint across the lake
Neighbourhood Centre
Potential overflow car park
Boardwalk through marginal reeds / planting
Pub & Hotel / Conference
Nottingham Lodge
Residential
Shipley Hall (remains of)
Shipley Lake
Business
Health & Care Campus
Bankside area and marginal habitats extended into the lake
Lakeside viewpoint and boardwalk crossing
Residential
Business
Nutbrook Cottage
Garden Centre and Leisure Complex
Shallow islands and marginal reeds / planting
Training / Leisure / Education
Marginal reeds / planting to either side of the hide
Information point and hide (potential for future 'lakeside centre')
Hide
Clear open views to bridge
Potential extention to habitat mosaic (subject to DCC agreement)
Shipley Country Park
Shipley Country Park

N

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Waystone Ltd

SHIPLEY LAKESIDE - ILLUSTRATIVE MASTERPLAN

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November 2012

4487-L-01 rev **E**

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APPENDIX B ENVIROCHECK REPORT

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
41021474_1_1

Customer Reference:
Shipley Lakeside

National Grid Reference:
444610, 344330

Slice:
A

Site Area (Ha):
49.51

Search Buffer (m):
500

Site Details:

Site at 445100, 344800

Client Details:

Mr D Thornton
URS
12 Regan Way
Checkwind Business Park
Chillwell
Nottingham
Nottinghamshire
NG9 6RZ

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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 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 v47.0

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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	1	1	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				
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature		Yes		
Pollution Incidents to Controlled Waters	pg 2			3
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	pg 2	2	1	
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 3	Yes	n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences	pg 3	Yes		n/a
Flooding from Rivers or Sea without Defences	pg 3	Yes		n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
Waste				
BGS Recorded Landfill Sites				
Historical Landfill Sites				
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Recorded Landfill Sites				
Registered Landfill Sites				
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
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 5	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 5	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 9	2	4	5
BGS Urban Soil Chemistry				
BGS Urban Soil Chemistry Averages				
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas	pg 11	Yes	n/a	n/a
Mining Instability	pg 11	Yes	n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain	pg 11	Yes	Yes	n/a
Potential for Collapsible Ground Stability Hazards	pg 11	Yes	Yes	n/a
Potential for Compressible Ground Stability Hazards	pg 12	Yes	Yes	n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 12	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 13	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 13	Yes	Yes	n/a
Radon Potential - Radon Affected Areas	pg 14	Yes	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a
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Contemporary Trade Directory Entries	pg 15		2	3
Fuel Station Entries				

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Sensitive Land Use				
Areas of Adopted Green Belt	pg 16	2		2
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 16	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: Shipley Lk Open Cast Coal Ps -Emg, Shipley Lake Open Cast Coal Site, Amber Valley Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/02837/O Permit Version: 1 Effective Date: 22nd December 1970 Issued Date: 22nd December 1970 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nut Brook (Tributary) **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A10SE (NW)	0	1	444440 344500
2	**Discharge Consents** Operator: Vic Hallam Ltd Property Type: Not Given Location: Sports Pavilion, Pit Lane, SHIPLEY, Derbyshire Authority: Environment Agency, Midlands Region Catchment Area: Not Given Reference: 3/28/61/2481/1 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 6th December 1973 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge Environment: Groundwater Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A11NW (NE)	146	1	444800 344700
3	**Discharge Consents** Operator: Lebane Mackenzie And Shand Ltd Property Type: Not Given Location: Land Adjacent To Rose Cottage, And Lodge Farm, Shipley South Opencast Coal Site, SHIPLEY, Derbyshire Authority: Environment Agency, Midlands Region Catchment Area: Not Given Reference: WQ/72/2051/1 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 1st September 1978 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge Environment: Groundwater Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A2NE (S)	277	1	444400 343600
4	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewerage Network - Sewers - Water Company Location: Marlpool Pumping Station Sso, Buxton Avenue, Marlpool, Heanor Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/40154/O Permit Version: 1 Effective Date: 30th June 1995 Issued Date: 30th June 1995 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Nut Brook **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A13SE (NW)	498	1	443900 345040

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: Marlpool Pumping Station Sso, Buxton Avenue, Marlpool, Heanor Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/40154/O Permit Version: 1 Effective Date: 30th June 1995 Issued Date: 30th June 1995 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Nut Brook **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SE (NW)	498	1	443900 345040
	Nearest Surface Water Feature	A10SW (NW)	0	-	444256 344539
5	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Combined Sewer Overflow Location: Woods Near, Algrave Hall Farm, SHIPLEY Authority: Environment Agency, Midlands Region Pollutant: Storm Sewage Note: Amenity Affected; Tributary Of Erewash; Sewage From Overflow Incident Date: 21st April 1997 Incident Reference: 2802416 Catchment Area: Trent Catchment : River Erewash Receiving Water: Watercourse Cause of Incident: Inadequate Design/Capacity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15SE (NE)	338	1	445251 345001
6	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Foul Sewer Location: Adjacent Purdy House Farm, Hassock Lane, SHIPLEY Authority: Environment Agency, Midlands Region Pollutant: Crude Sewage Note: Other Affected; Minor Pollution From Sewer-Sewage To Watercourse Incident Date: 5th June 1998 Incident Reference: 2804609 Catchment Area: Trent Catchment : River Erewash 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	A16SW (NE)	406	1	445300 345050
7	**Pollution Incidents to Controlled Waters** Property Type: Stables Location: Behind American Adventure, ILKESTON Authority: Environment Agency, Midlands Region Pollutant: Oils - Kerosene Fuel Oil Note: Diesel Incident Date: 5th May 1999 Incident Reference: 2805973 Catchment Area: Trent Catchment : River Erewash Receiving Water: Watercourse Cause of Incident: Inadequate Construction Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A2NW (SW)	444	1	444200 343500
8	**Water Abstractions** Operator: Ventureworld Ltd Licence Number: 03/28/61/0067 Permit Version: 1 Location: Inland Water (Shipley Lake) Ilkeston Authority: Environment Agency, Midlands Region Abstraction: Amenity: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The American Adventure, Ilkeston, Derbyshire Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 25th August 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (SW)	0	1	444300 344100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Water Abstractions** Operator: Ventureworld Ltd Licence Number: 03/28/61/0067 Permit Version: 1 Location: Inland Water (Shipley Lake) Ilkeston Authority: Environment Agency, Midlands Region Abstraction: Amenity: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The American Adventure, Ilkeston, Derbyshire Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 25th August 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (W)	0	1	444410 344380
10	**Water Abstractions** Operator: Kenneth Beale Licence Number: 03/28/61/00571 Permit Version: Not Supplied Location: Coppice Inn, HEANOR, Derbyshire Authority: Environment Agency, Midlands Region Abstraction: Impounding Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Nut Brook 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	A10NW (NW)	126	1	444150 344760
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 18 Nottinghamshire Scale: 1:100,000	A10SE (SW)	0	1	444580 344317
	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 18 Nottinghamshire Scale: 1:100,000	A11SW (NE)	0	1	444609 344330
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Desination: Secondary Aquifer - A	A11SE (E)	0	2	445000 344330
	Bedrock Aquifer Designations Aquifer Desination: Secondary Aquifer - A	A11SW (NE)	0	2	444609 344330
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A11SW (NE)	0	2	444609 344330
	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	1	444609 344330
	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	1	444609 344330
	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
	Local Authority Landfill Coverage Name: Amber Valley Borough Council - Has supplied landfill data		0	5	444609 344330
	Local Authority Landfill Coverage Name: Derbyshire County Council - Had landfill data but passed it to the relevant environment agency		0	10	444609 344330
	Local Authority Landfill Coverage Name: Erewash Borough Council - Has supplied landfill data		411	11	445459 344252

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Westphalian (mainly Productive Coal Measures)	A11SW (NE)	0	2	444609 344330
	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	A11SW (E)	0	3	444647 344343
	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	A11SE (E)	0	3	445000 344330
	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 (S)	0	3	444609 344000
	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	A11SW (NE)	0	3	444609 344330
	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	A10SW (W)	4	3	444164 344332
	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 (SE)	5	3	444928 344187

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	A6SE (S)	35	3	444507 343838
	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 (E)	41	3	445000 344265
	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)	46	3	445000 344101
	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 (SE)	50	3	445000 344000
	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	A10SW (W)	142	3	444000 344330
	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	A6NW (SW)	160	3	444000 344054

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	A6NW (SW)	178	3	444000 344000
	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	A10SW (W)	181	3	444000 344398
	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	A7SE (SE)	185	3	445000 343774
	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	A7SE (SE)	202	3	444967 343734
	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	A6NW (SW)	211	3	443966 344000
	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	A15SW (N)	245	3	444609 345000

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	A15SE (NE)	253	3	445000 345000
	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	A10NW (NW)	321	3	444000 344886
	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 (NW)	353	3	444273 345104
	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	A16SW (NE)	365	3	445276 345017
	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	A10NW (NW)	369	3	444000 344957
	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	A14SW (NW)	401	3	444000 345000

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	A5NE (W)	421	3	443742 344000
	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 (E)	466	3	445419 344000
	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	A16SW (NE)	473	3	445370 345079
	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	A14SW (NW)	496	3	443971 345102
11	**BGS Recorded Mineral Sites** Site Name: Woodside Colliery Location: , Shipley, Ilkeston, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 26911 Type: Underground **Status: Ceased** Operator: Ncb North Derbyshire Area Operator Location: Ncb North Derbyshire Area, Bolsover, Chesterfield, Derbyshire, S44 6aa Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A11SW (E)	0	2	444825 344400
12	**BGS Recorded Mineral Sites** Site Name: Shipley Colliery Pits Location: , Shipley, Ilkeston, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 120199 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A11SW (NE)	0	2	444755 344417

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**BGS Recorded Mineral Sites** Site Name: Shipley Wharf Brick Yard Location: , Shipley, Ilkeston, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 26920 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7SW (S)	42	2	444780 343845
14	**BGS Recorded Mineral Sites** Site Name: Deepfields Colliery Location: , Shipley, Ilkeston, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 26912 Type: Underground **Status: Ceased** Operator: Ncb North Derbyshire Area Operator Location: Ncb North Derbyshire Area, Bolsover, Chesterfield, Derbyshire, S44 6aa Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A10NE (N)	51	2	444460 344695
15	**BGS Recorded Mineral Sites** Site Name: Shipley Colliery Pits Location: , Shipley, Ilkeston, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 120197 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A10NE (NW)	68	2	444390 344789
16	**BGS Recorded Mineral Sites** Site Name: Shipley Colliery Pits Location: , Shipley, Ilkeston, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 120198 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A10SE (N)	82	2	444557 344641
17	**BGS Recorded Mineral Sites** Site Name: Parkfield Farm Occs Location: , Shipley Common, Ilkeston, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 26910 Type: Opencast **Status: Ceased** Operator: Ncb Opencast Operator Location: Ncb Opencast Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 10m	A7SE (SE)	315	2	445090 343680
18	**BGS Recorded Mineral Sites** Site Name: Shipley Hall Occs Location: , Shipley, Ilkeston, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 26950 Type: Opencast **Status: Ceased** Operator: Ncb Opencast Operator Location: Ncb Opencast Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 10m	A5SE (SW)	423	2	443850 343780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**BGS Recorded Mineral Sites** Site Name: Shipley Colliery Newcastle Pit Location: , Shipley, Ilkeston, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 26937 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SW (NW)	471	2	444030 345120
20	**BGS Recorded Mineral Sites** Site Name: Lodge Farm Occs Location: , Shipley Common, Ilkeston, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 26908 Type: Opencast **Status: Ceased** Operator: Ncb Opencast Operator Location: Ncb Opencast Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 10m	A2NE (S)	473	2	444515 343400
21	**BGS Recorded Mineral Sites** Site Name: Hassock Lane Coal Pit Location: , Shipley, Heanor, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 120179 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SE (N)	484	2	444386 345236
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A11SW (NE)	0	4	444609 344330
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A11SW (NE)	0	-	444609 344330
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A11SE (E)	0	2	445000 344330
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	444609 344330
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	246	2	444609 345001
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	444609 344330
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	2	444648 344344
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (E)	0	2	445000 344330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6SE (S)	34	2	444507 343839
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	184	2	445000 343775
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	201	2	444967 343735
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	246	2	444609 345001
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	2	444648 344344
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (E)	0	2	445000 344330
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	444609 344330
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6SE (S)	34	2	444507 343839
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	184	2	445000 343775
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	201	2	444967 343735
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	246	2	444609 345001
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	444609 344330
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (E)	0	2	445000 344330
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	0	2	444226 344338
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	2	444640 344339
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NW (W)	0	2	444184 344281
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	444714 344387
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	444369 344360
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (NW)	0	2	444348 344572
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (NW)	0	2	444437 344632

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	A10NW (NW)	100	2	444215 344788
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7SW (S)	149	2	444657 343722
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	165	2	445000 343799
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10NW (NW)	239	2	444116 344887
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NW (SW)	244	2	443939 343973
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	246	2	444609 345001
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	247	2	445135 343811
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	2	444648 344344
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	444609 344330
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (E)	0	2	445000 344330
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6SE (S)	34	2	444507 343839
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	184	2	445000 343775
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	201	2	444967 343735
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	246	2	444609 345001
	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	444609 344330
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (E)	0	2	445000 344330
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	5	2	444164 344333
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	6	2	444928 344188
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (E)	40	2	445000 344266
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	246	2	444609 345001

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	A11SW (NE)	0	2	444609 344330
	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	A10SW (W)	0	2	444250 344330
	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 (SE)	0	2	444850 344226
	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	A6SE (S)	0	2	444525 343926
	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	A11SE (E)	0	2	445000 344330
	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	A11SW (NE)	0	2	444700 344376
	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	A11SE (E)	0	2	445000 344351
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	2	444609 344330
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	0	2	444250 344330
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	0	2	444850 344226
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A6SE (S)	0	2	444525 343926
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A11SE (E)	0	2	445000 344330
	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	A11SW (NE)	0	2	444700 344376
	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	A11SE (E)	0	2	445000 344351

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Contemporary Trade Directory Entries** Name: Capital House Marketing Ltd Location: The Poplars, The Field, Shipley, Heanor, Derbyshire, DE75 7JH Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NE (N)	142	-	444561 344721
23	**Contemporary Trade Directory Entries** Name: Counter Solutions Location: Lakeside Business Centre, Shipley, Heanor, Derbyshire, DE75 7JQ Classification: Electronic Equipment - Manufacturers & Assemblers **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	160	-	444204 344859
24	**Contemporary Trade Directory Entries** Name: Alan Doxey Location: 40, Hassock Lane North, Shipley, Heanor, Derbyshire, DE75 7JB Classification: Fireplaces & Mantelpieces **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SW (N)	313	-	444845 345007
25	**Contemporary Trade Directory Entries** Name: Lavender Line Travel Location: 29, Hassock Lane North, Shipley, Heanor, Derbyshire, DE75 7JB Classification: Bus & Coach Operators & Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A15SW (N)	481	-	444830 345190
26	**Contemporary Trade Directory Entries** Name: Epos Rolls Location: 71, Rayneham Road, Ilkeston, Derbyshire, DE7 8RJ Classification: Cash Registers & Check-Out Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A3NE (SE)	485	-	445071 343471

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	**Areas of Adopted Green Belt** Authority: Amber Valley Borough Council Plan Name: Amber Valley Borough Local Plan - Adopted 2006 **Status: Adopted** Plan Date: 12th April 2006	A11SW (NE)	0	5	444609 344330
28	**Areas of Adopted Green Belt** Authority: Amber Valley Borough Council Plan Name: Amber Valley Borough Local Plan - Adopted 2006 **Status: Adopted** Plan Date: 12th April 2006	A11SW (NE)	0	5	444609 344330
29	**Areas of Adopted Green Belt** Authority: Erewash Borough Council Plan Name: Erewash Borough Local Plan **Status: Adopted** Plan Date: 31st July 2005	A8NW (E)	442	6	445459 344252
30	**Areas of Adopted Green Belt** Authority: Erewash Borough Council Plan Name: Erewash Borough Local Plan **Status: Adopted** Plan Date: 31st July 2005	A8SW (SE)	478	6	445329 343686
31	**Nitrate Vulnerable Zones** Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A11SW (NE)	0	9	444609 344330

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	January 2012	Annual Rolling Update
Broxtowe Borough Council - Environmental Health Department	July 2012	Annual Rolling Update
Erewash Borough Council - Environmental Health Department	May 2012	Annual Rolling Update
Discharge Consents		
Environment Agency - Midlands Region	April 2012	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Midlands Region	June 2012	Quarterly
Integrated Pollution Controls		
Environment Agency - Midlands Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - Midlands Region	April 2012	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Broxtowe Borough Council - Environmental Health Department	August 2012	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	February 2011	Annual Rolling Update
Erewash Borough Council - Environmental Health Department	October 2011	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Broxtowe Borough Council - Environmental Health Department	August 2011	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	February 2011	Annual Rolling Update
Erewash Borough Council - Environmental Health Department	October 2011	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Broxtowe Borough Council - Environmental Health Department	August 2012	Annual Rolling Update
Amber Valley Borough Council - Environmental Health Division (Air Pollution)	February 2011	Annual Rolling Update
Erewash Borough Council - Environmental Health Department	October 2011	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	December 2011	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency - Midlands Region	December 1999	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Midlands Region	June 2012	Monthly
Prosecutions Relating to Controlled Waters		
Environment Agency - Midlands Region	June 2012	Monthly
Registered Radioactive Substances		
Environment Agency - Midlands Region	April 2012	Quarterly
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	January 2011	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	January 2011	Annually
Substantiated Pollution Incident Register		
Environment Agency - Midlands Region - East Area	April 2012	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	April 2012	Quarterly
Water Abstractions		
Environment Agency - Midlands Region	July 2012	Quarterly
Water Industry Act Referrals		
Environment Agency - Midlands Region	April 2012	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	September 2011	Annually
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	September 2011	Annually
Source Protection Zones		
Environment Agency - Head Office	July 2012	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	July 2012	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	July 2012	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	July 2012	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	July 2012	Quarterly
Flood Defences		
Environment Agency - Head Office	July 2012	Quarterly
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	July 2012	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	July 2012	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 2012	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	July 2012	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Midlands Region - East Area	April 2012	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	April 2012	Quarterly
Local Authority Landfill Coverage		
Amber Valley Borough Council	May 2000	Not Applicable
Broxtowe Borough Council - Environmental Health Department	May 2000	Not Applicable
Derbyshire County Council	May 2000	Not Applicable
Erewash Borough Council - Environmental Health Department	May 2000	Not Applicable
Nottinghamshire County Council - Environment Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Amber Valley Borough Council	May 2000	Not Applicable
Broxtowe Borough Council - Environmental Health Department	May 2000	Not Applicable
Derbyshire County Council	May 2000	Not Applicable
Erewash Borough Council - Environmental Health Department	May 2000	Not Applicable
Nottinghamshire County Council - Environment 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	May 2012	Bi-Annually
Explosive Sites		
Health and Safety Executive	June 2012	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Nottinghamshire County Council	August 2007	Annual Rolling Update
Erewash Borough Council	August 2012	Annual Rolling Update
Amber Valley Borough Council	January 2012	Annual Rolling Update
Derbyshire County Council	July 2011	Annual Rolling Update
Broxtowe Borough Council	March 2012	Annual Rolling Update
Planning Hazardous Substance Consents		
Nottinghamshire County Council	August 2007	Annual Rolling Update
Erewash Borough Council	August 2012	Annual Rolling Update
Amber Valley Borough Council	January 2012	Annual Rolling Update
Derbyshire County Council	July 2011	Annual Rolling Update
Broxtowe Borough Council	March 2012	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	Variable
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
Brine Compensation Area		
Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas		
The Coal Authority - Mining Report Service	January 2012	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	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	February 2011	Annually
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries		
Thomson Directories	May 2012	Quarterly
Fuel Station Entries		
Catalist Ltd - Experian	May 2012	Quarterly
Sensitive Land Use	**Version**	**Update Cycle**
Areas of Adopted Green Belt		
Amber Valley Borough Council	August 2012	As notified
Broxtowe Borough Council	August 2012	As notified
Erewash Borough Council	August 2012	As notified
Areas of Unadopted Green Belt		
Amber Valley Borough Council	August 2012	As notified
Broxtowe Borough Council	August 2012	As notified
Erewash Borough Council	August 2012	As notified
Areas of Outstanding Natural Beauty		
Natural England	July 2012	Bi-Annually
Environmentally Sensitive Areas		
Natural England	February 2012	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	February 2012	Bi-Annually
Marine Nature Reserves		
Natural England	August 2012	Bi-Annually
National Nature Reserves		
Natural England	February 2012	Bi-Annually
National Parks		
Natural England	August 2012	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)	February 2012	Annually
Ramsar Sites		
Natural England	August 2012	Bi-Annually
Sites of Special Scientific Interest		
Natural England	February 2012	Bi-Annually
Special Areas of Conservation		
Natural England	August 2012	Bi-Annually
Special Protection Areas		
Natural England	August 2012	Bi-Annually

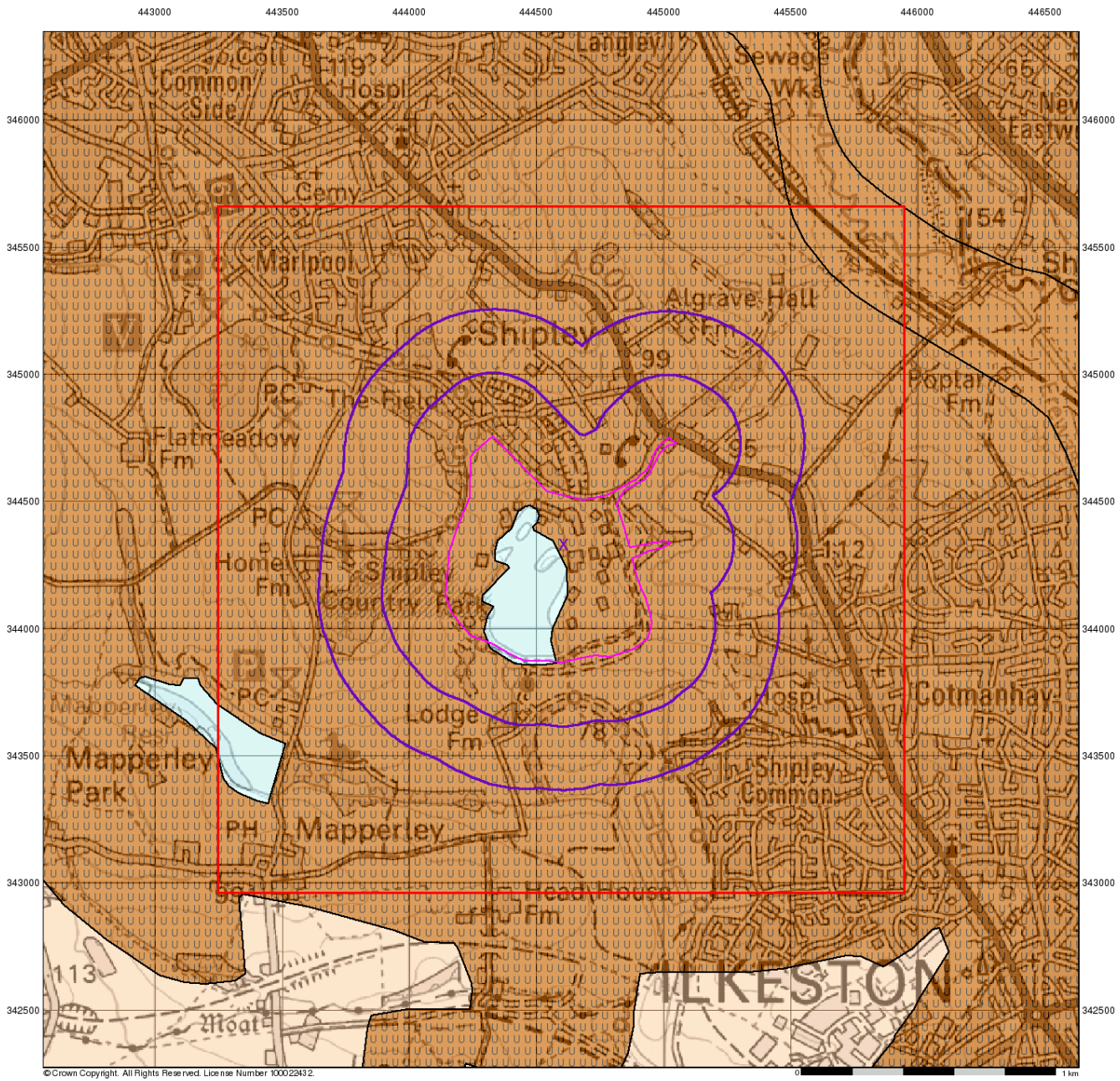
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
1	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
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	**Landmark Information Group Limited** 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
4	**The Coal Authority - Mining Report Service** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
5	**Amber Valley Borough Council** PO Box 18, Town Hall, Ripley, Derbyshire, DE5 3SZ	Telephone: 01773 570222 Fax: 01773 841523 Website: www.ambervalley.gov.uk
6	**Erewash Borough Council** Town Hall, Long Eaton, Nottingham, Nottinghamshire, NG10 1HU	Telephone: 0115 946 1321 Fax: 0115 946 8236 Website: www.erewash.gov.uk
7	**Broxtowe Borough Council** Council Offices, Foster Avenue, Beeston, Nottingham, Nottinghamshire, NG9 1AB	Telephone: 0115 917 7777 Fax: 0115 943 1452 Website: www.broxtowe.gov.uk
8	**Natural England** Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
9	**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
10	**Derbyshire County Council** County Offices, Matlock, Derbyshire, DE4 3AG	Telephone: 01629 580000 Fax: 01629 580119 Website: www.derbyshire.gov.uk
11	**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
-	**Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	**Landmark Information Group Limited** The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.



Groundwater Vulnerability

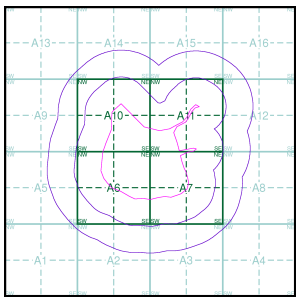
General

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



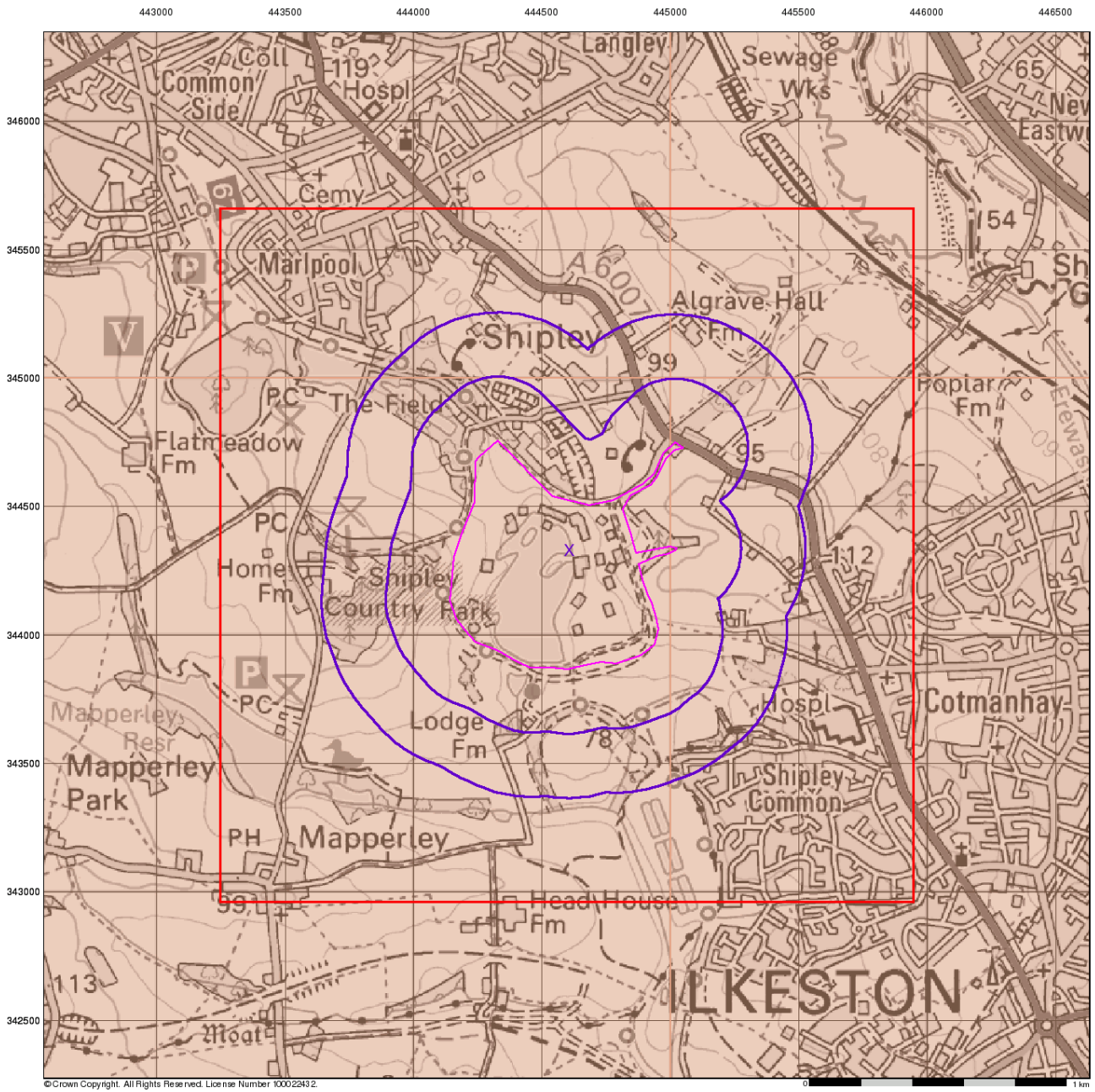
Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

Site at 445100, 344800

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Bedrock Aquifer Designation

General

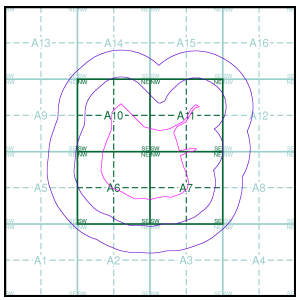
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



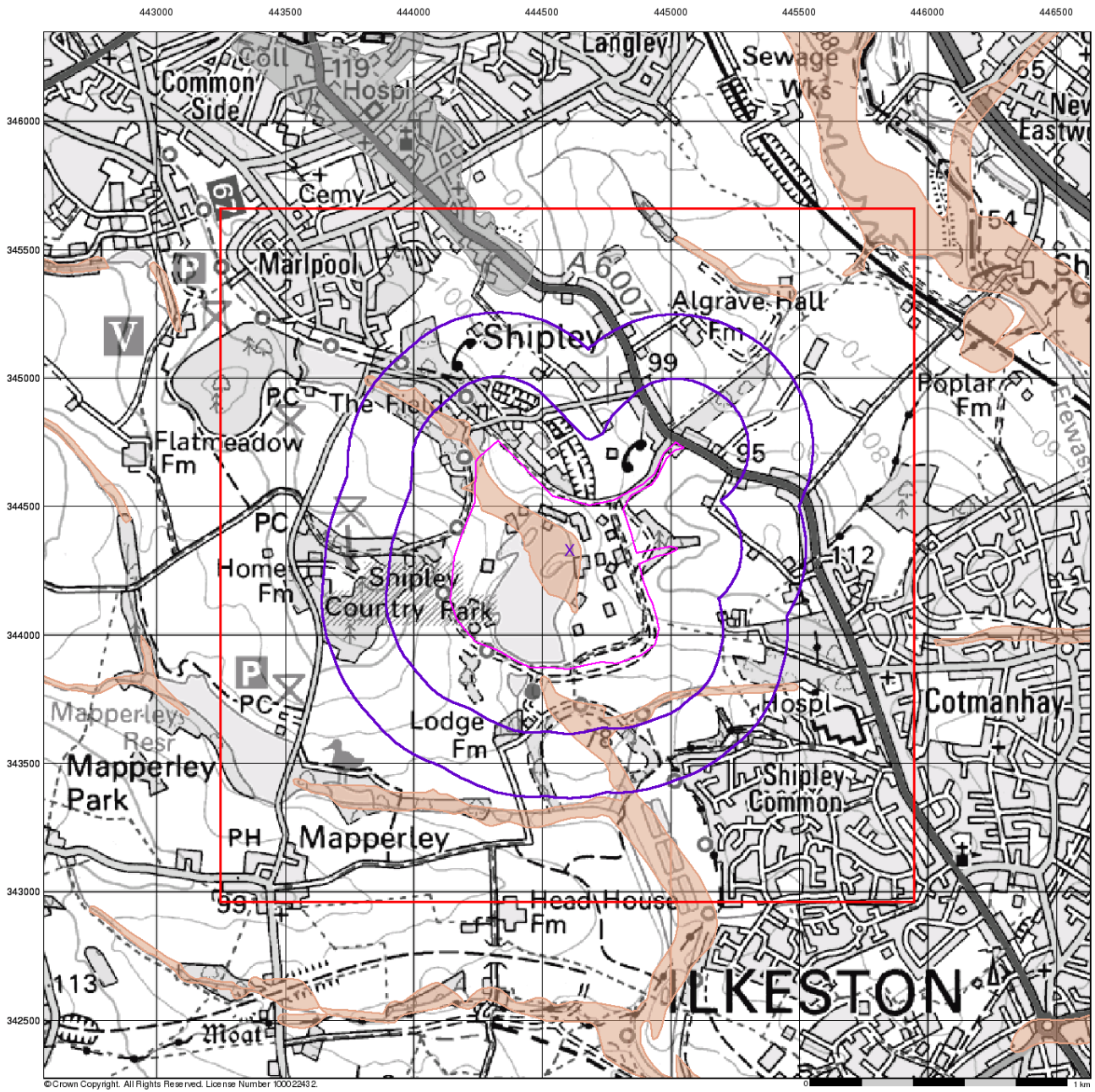
Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

Site at 445100, 344800

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Superficial Aquifer Designation

General

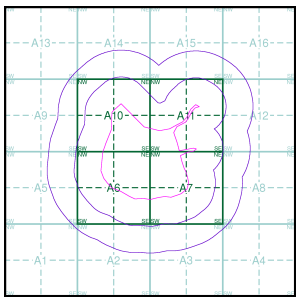
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



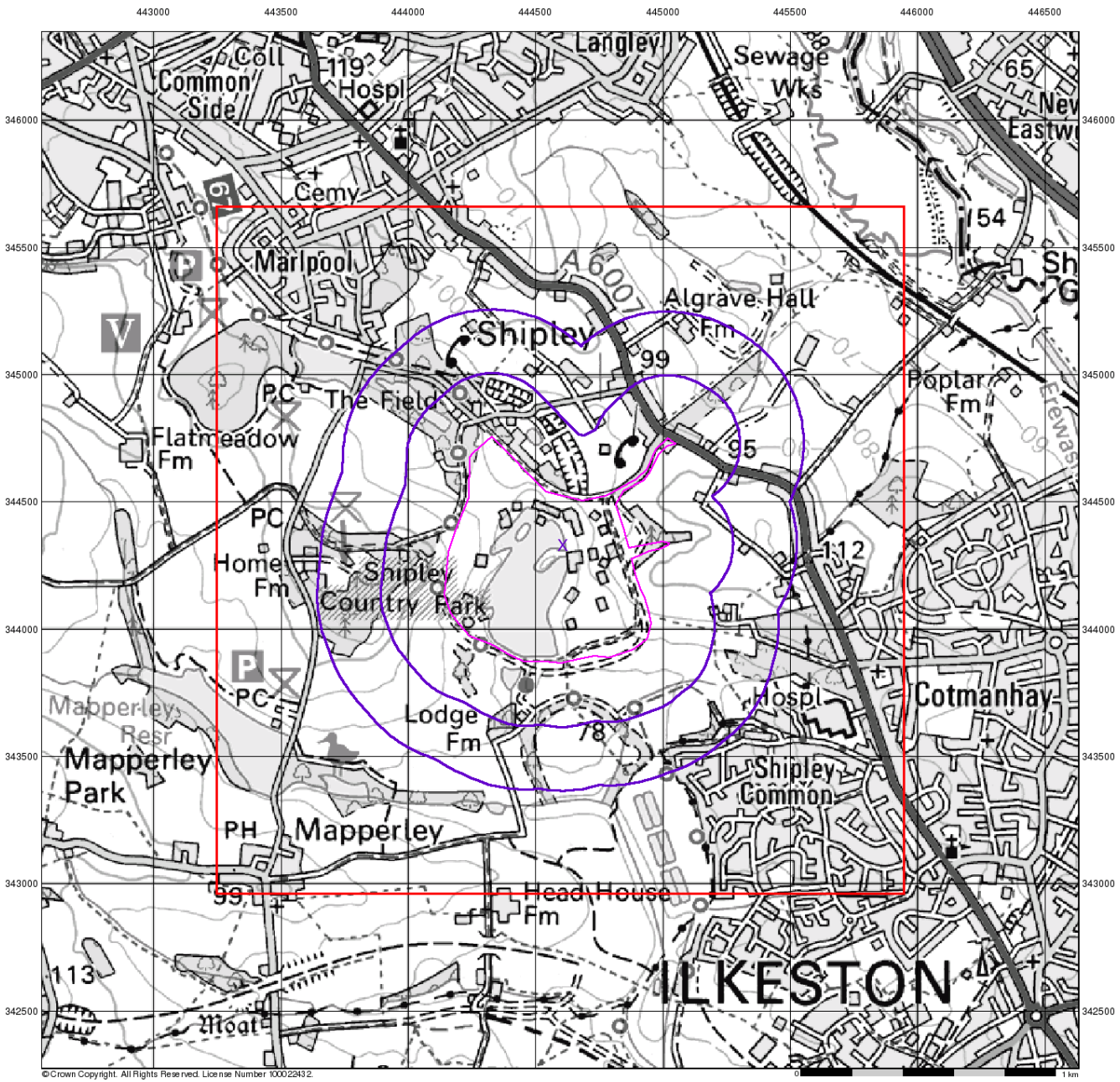
Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

Site at 445100, 344800

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Source Protection Zones

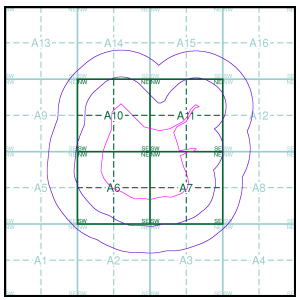
General

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

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

Site at 445100, 344800

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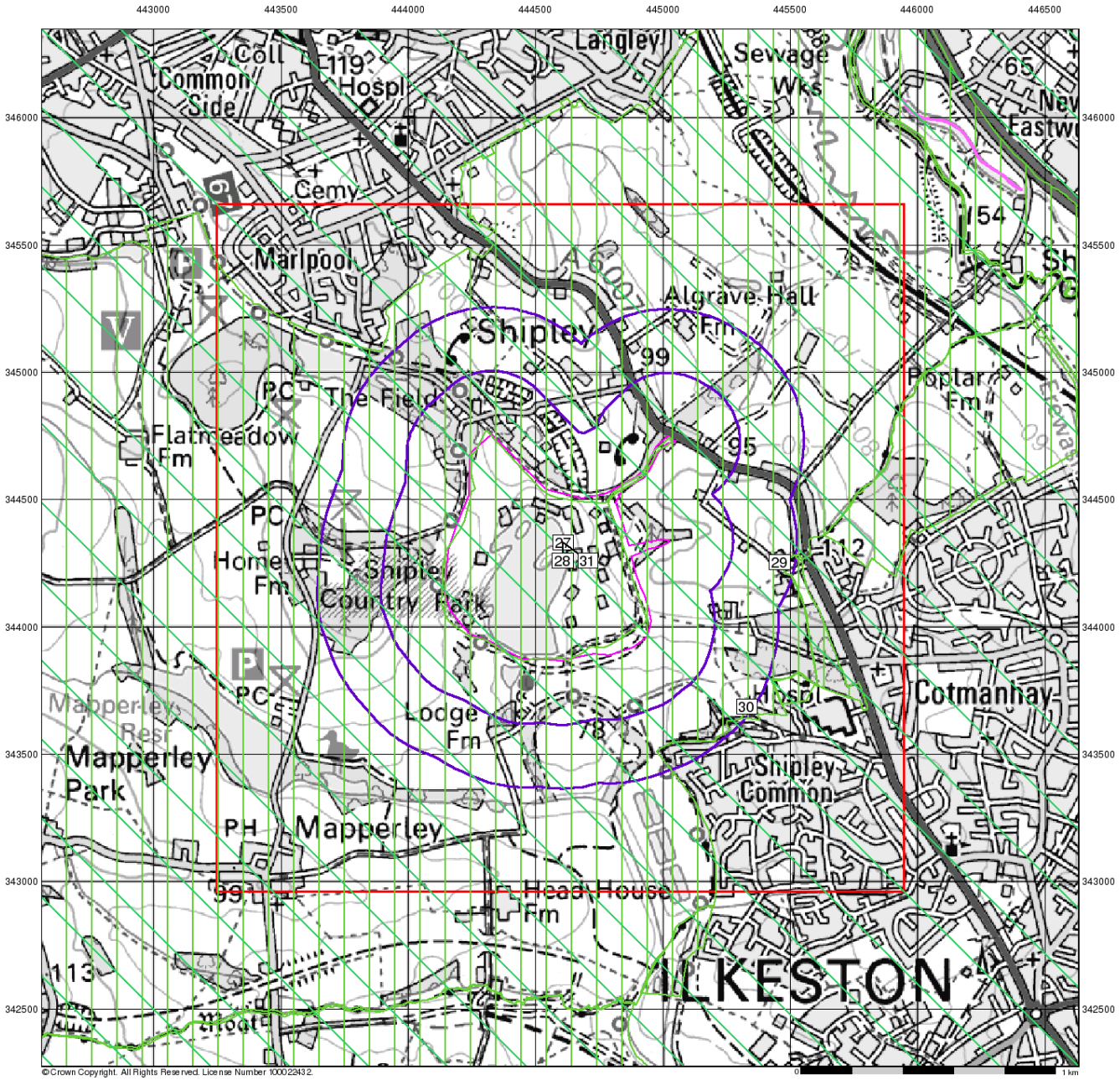

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Sensitive Land Uses

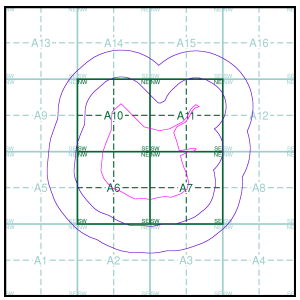
General

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:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

Site at 445100, 344800

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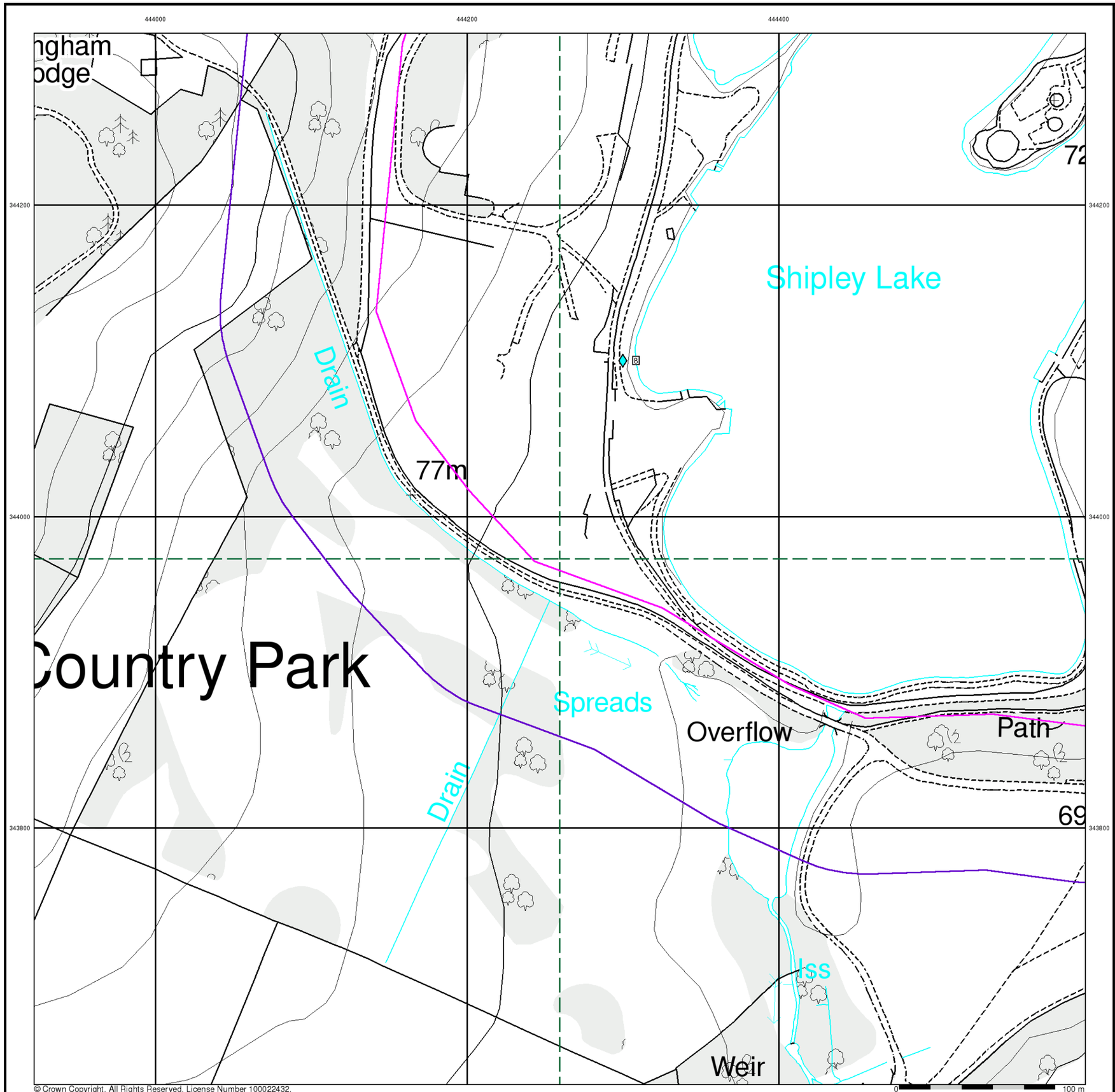
Web: www.envirocheck.co.uk



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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

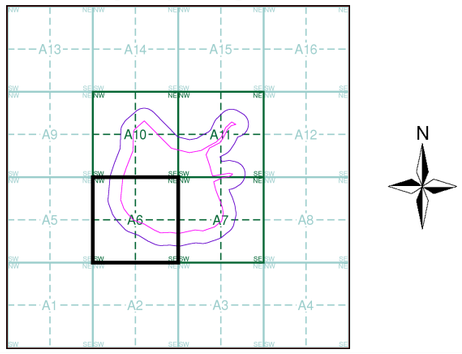
Waste

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



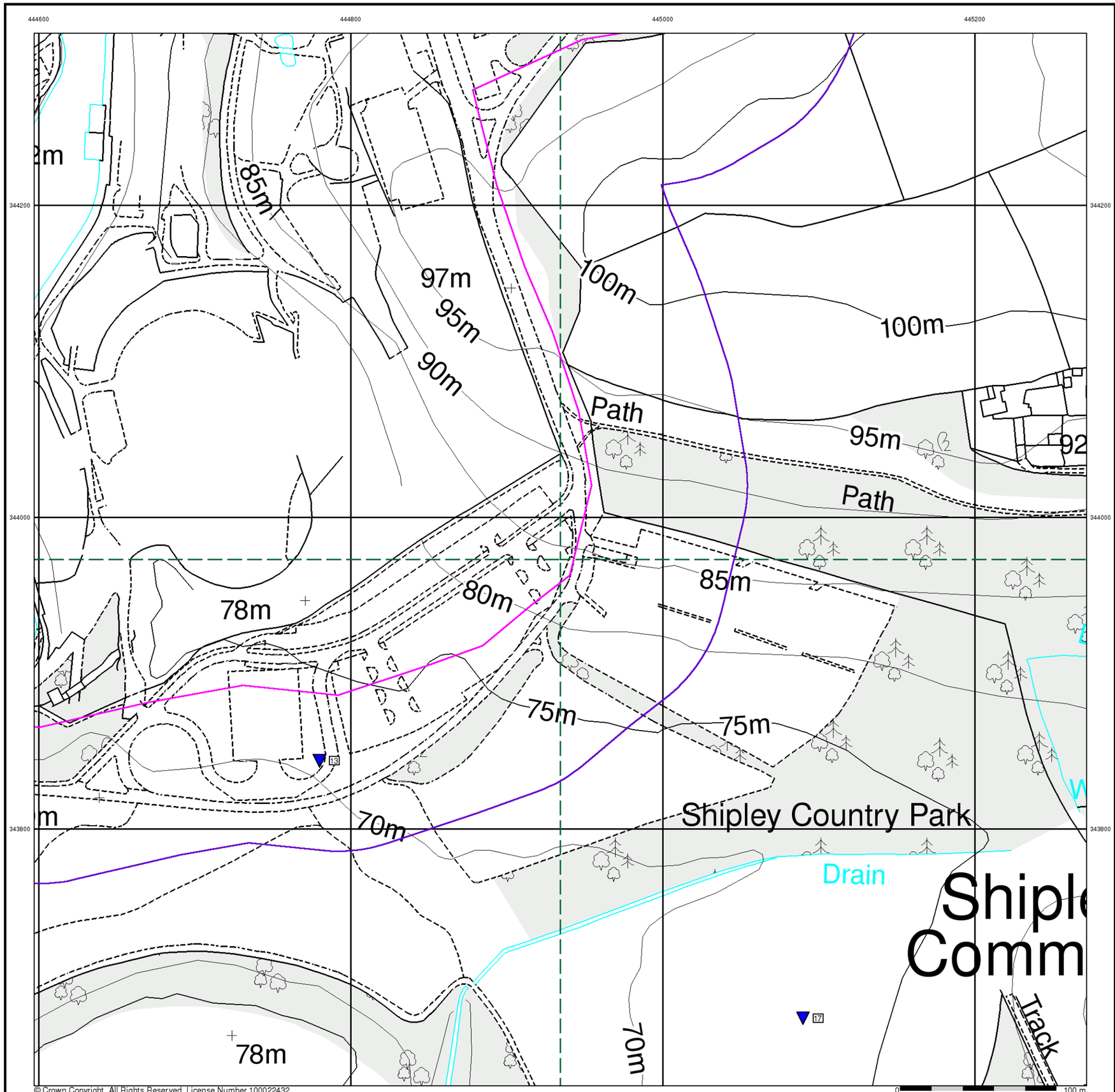
Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51

Site Details

Site at 445100, 344800

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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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

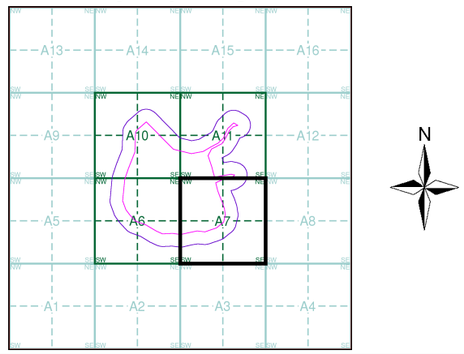
Waste

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 A7



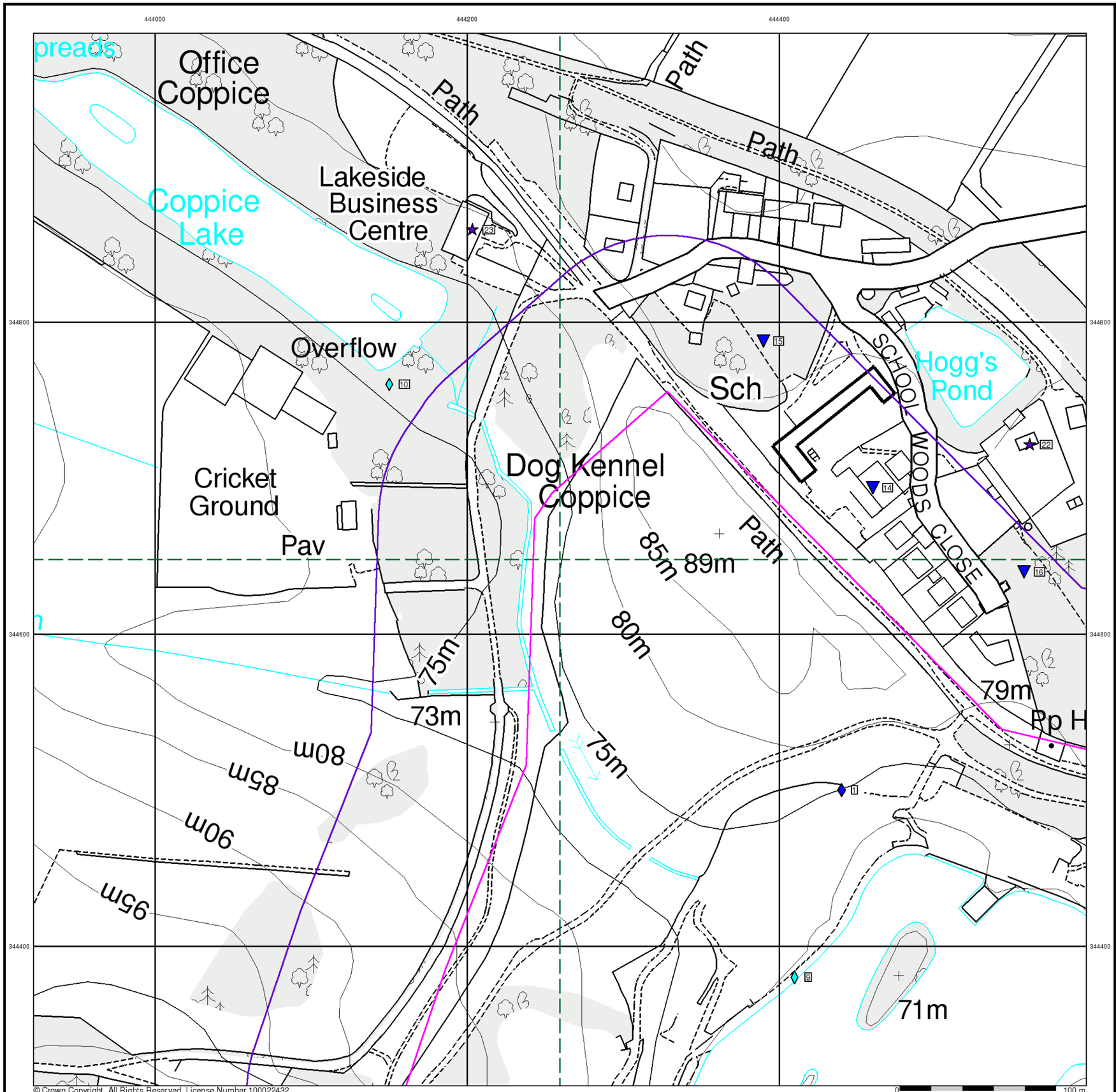
Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51

Site Details

Site at 445100, 344800

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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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

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

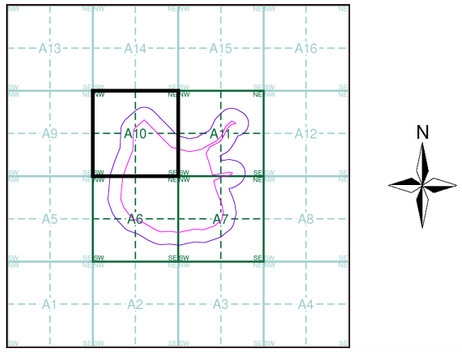
Hazardous Substances

- 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 A10



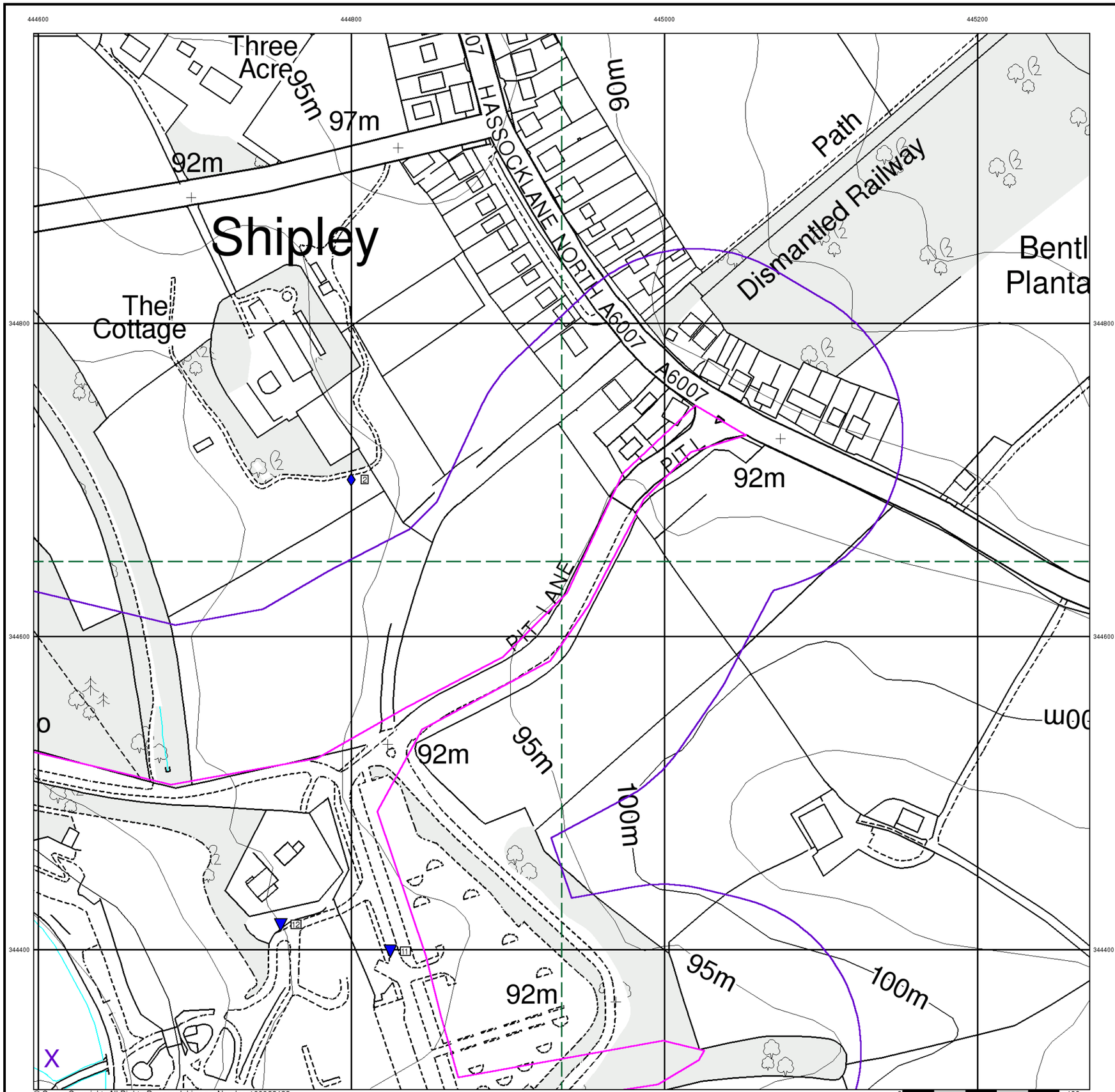
Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51

Site Details

Site at 445100, 344800

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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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

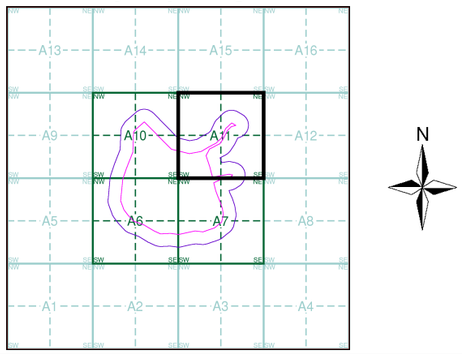
Waste

- 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 A11



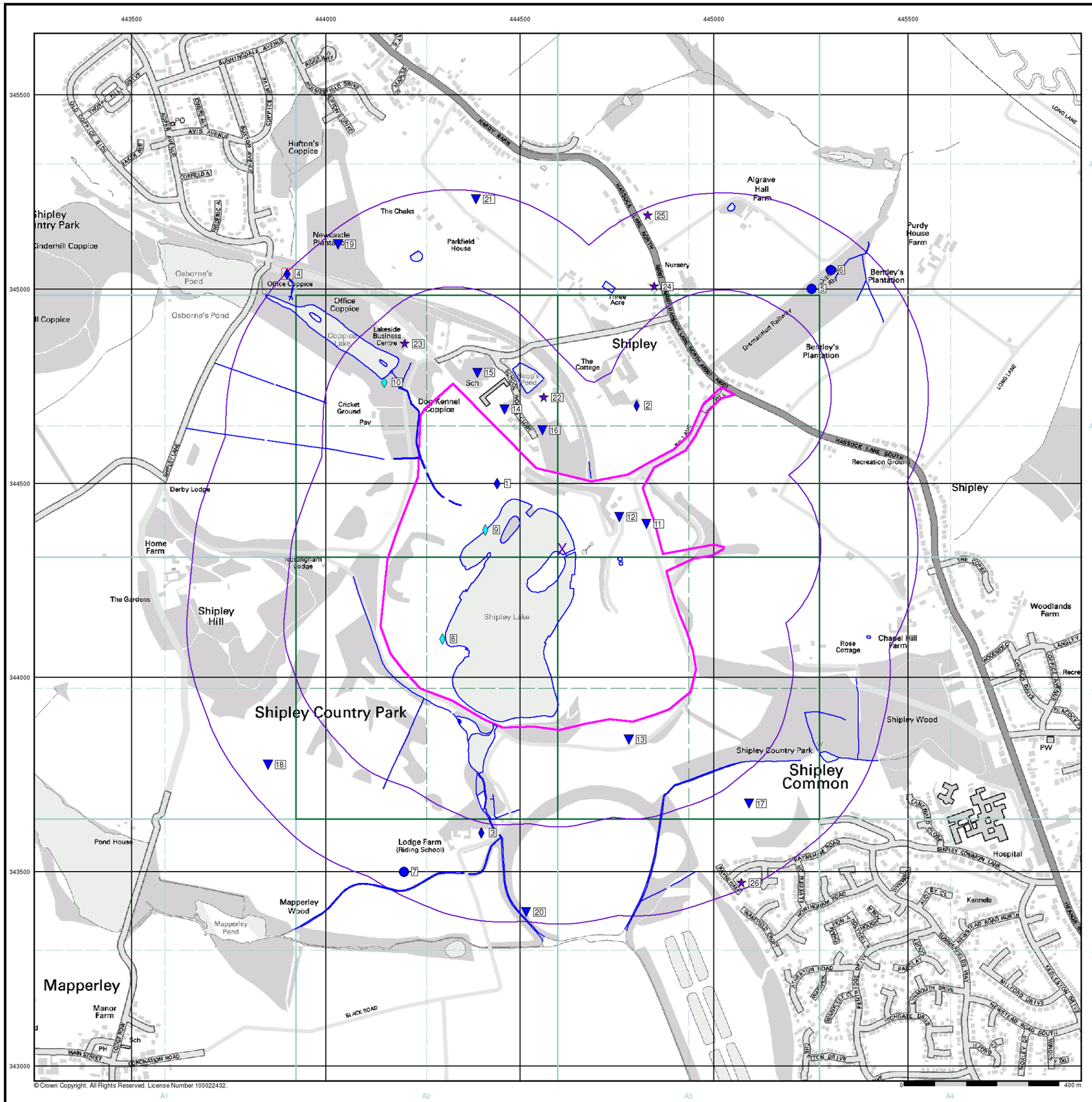
Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51

Site Details

Site at 445100, 344800

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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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)
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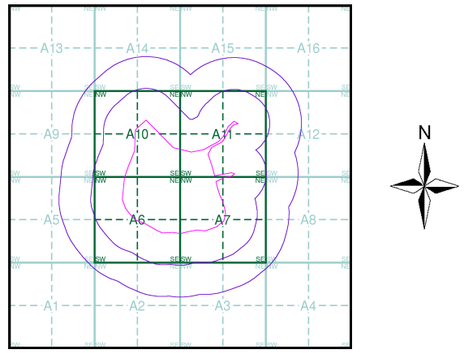
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste 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

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

Site at 445100, 344800

Landmark® Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

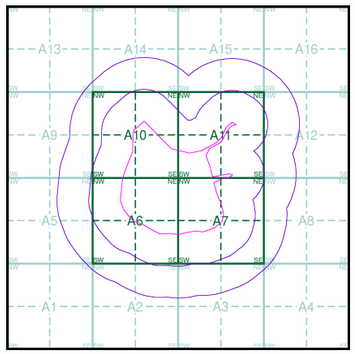
General

- 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:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

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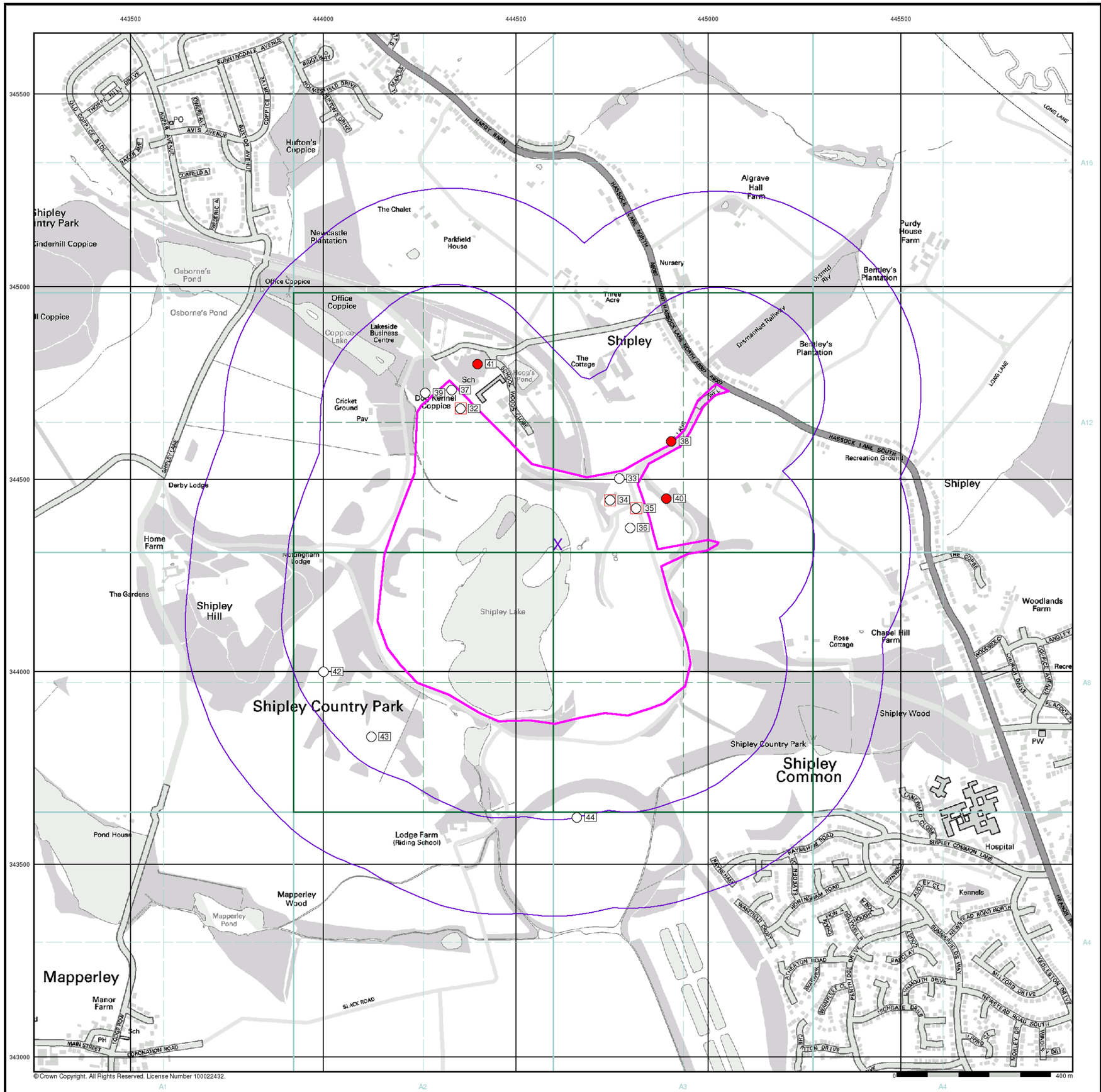

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Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

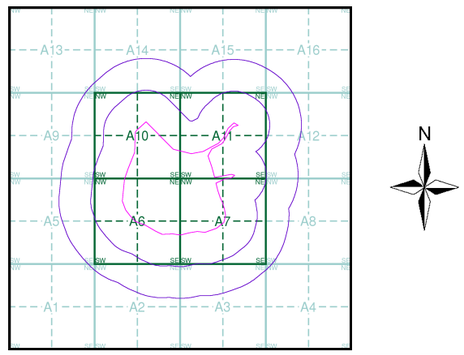
Agency and Hydrological (Boreholes)

- 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



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Slice:	A
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Search Buffer (m):	500

Site Details

Site at 445100, 344800

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Fax: 0844 844 9951
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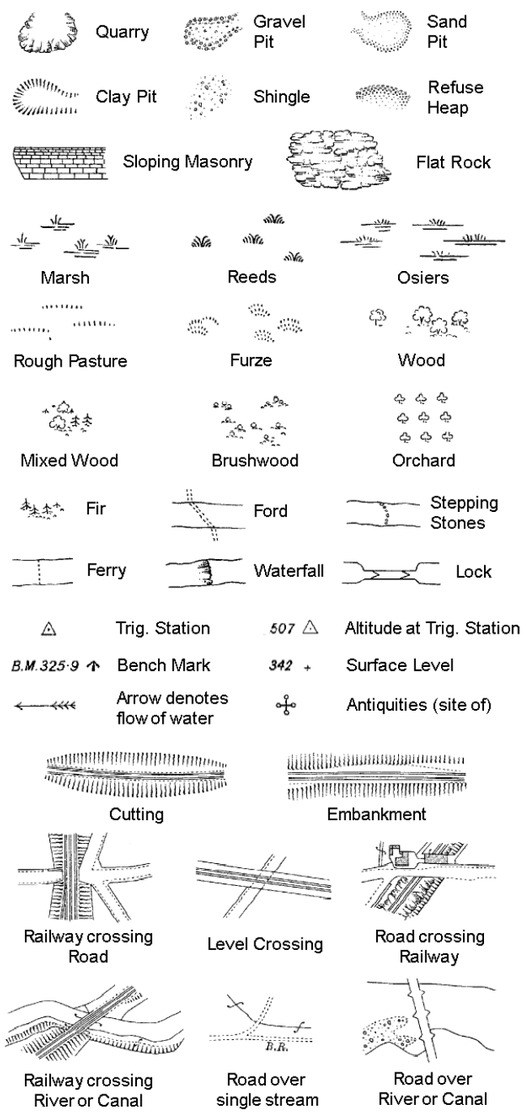
Historical Mapping Legends

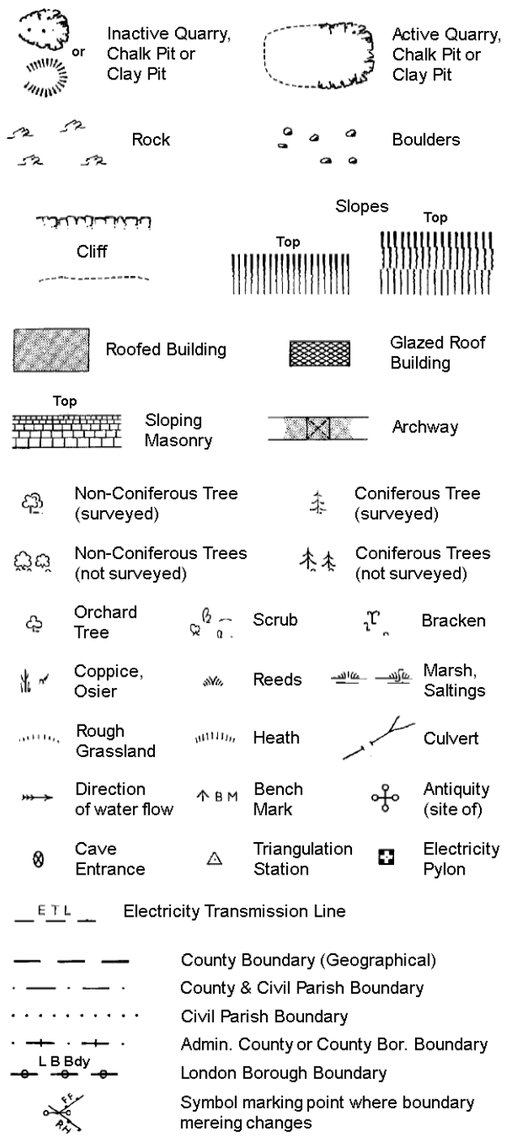
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

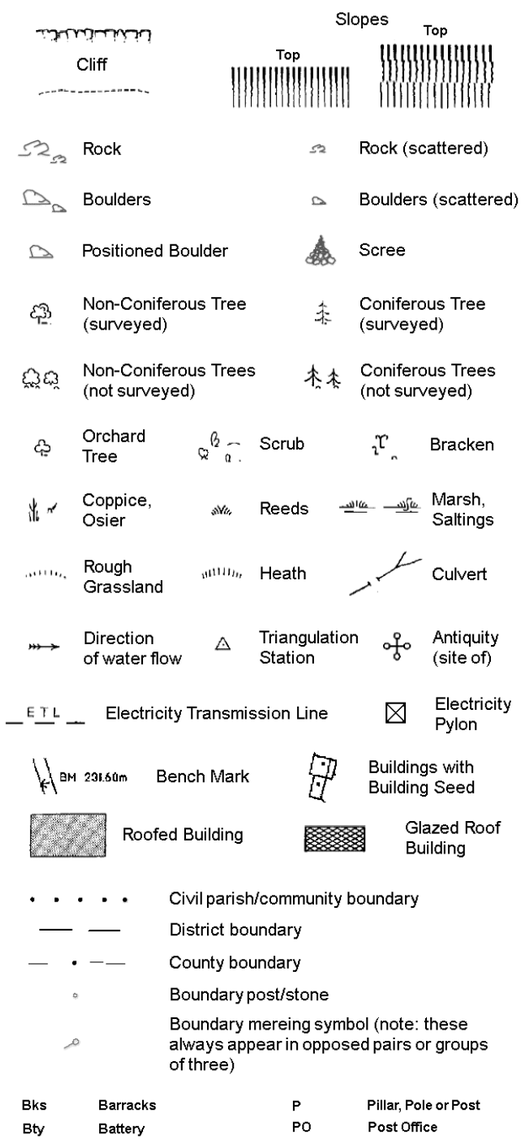
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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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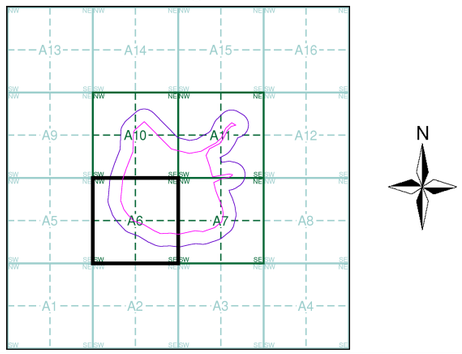
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1881	2
Derbyshire	1:2,500	1900	3
Derbyshire	1:2,500	1914 - 1915	4
Derbyshire	1:2,500	1937 - 1938	5
Ordnance Survey Plan	1:2,500	1959 - 1962	6
Additional SIMs	1:2,500	1959 - 1986	7
Additional SIMs	1:2,500	1988 - 1989	8
Additional SIMs	1:2,500	1991	9
Large-Scale National Grid Data	1:2,500	1993	10
Large-Scale National Grid Data	1:2,500	1995	11

Historical Map - Segment A6



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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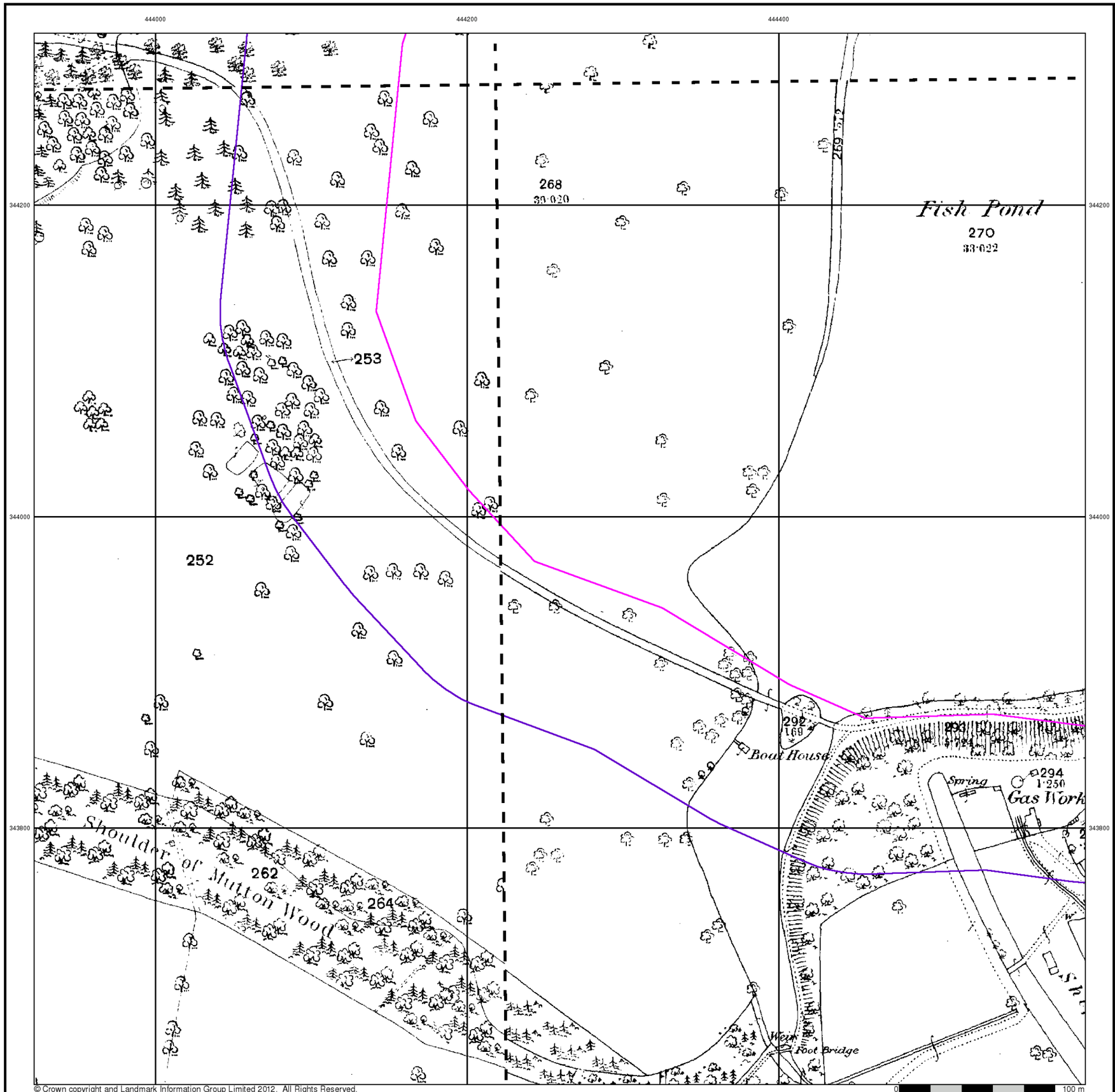

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Derbyshire

Published 1881

Source map scale - 1:2,500

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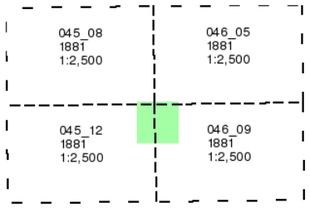
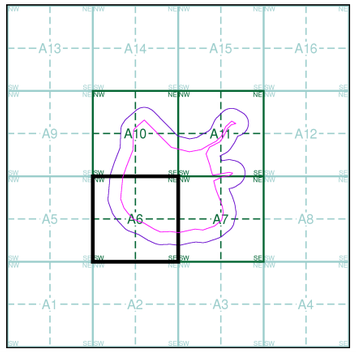
Map Name(s) and Date(s)



Historical Map - Segment A6



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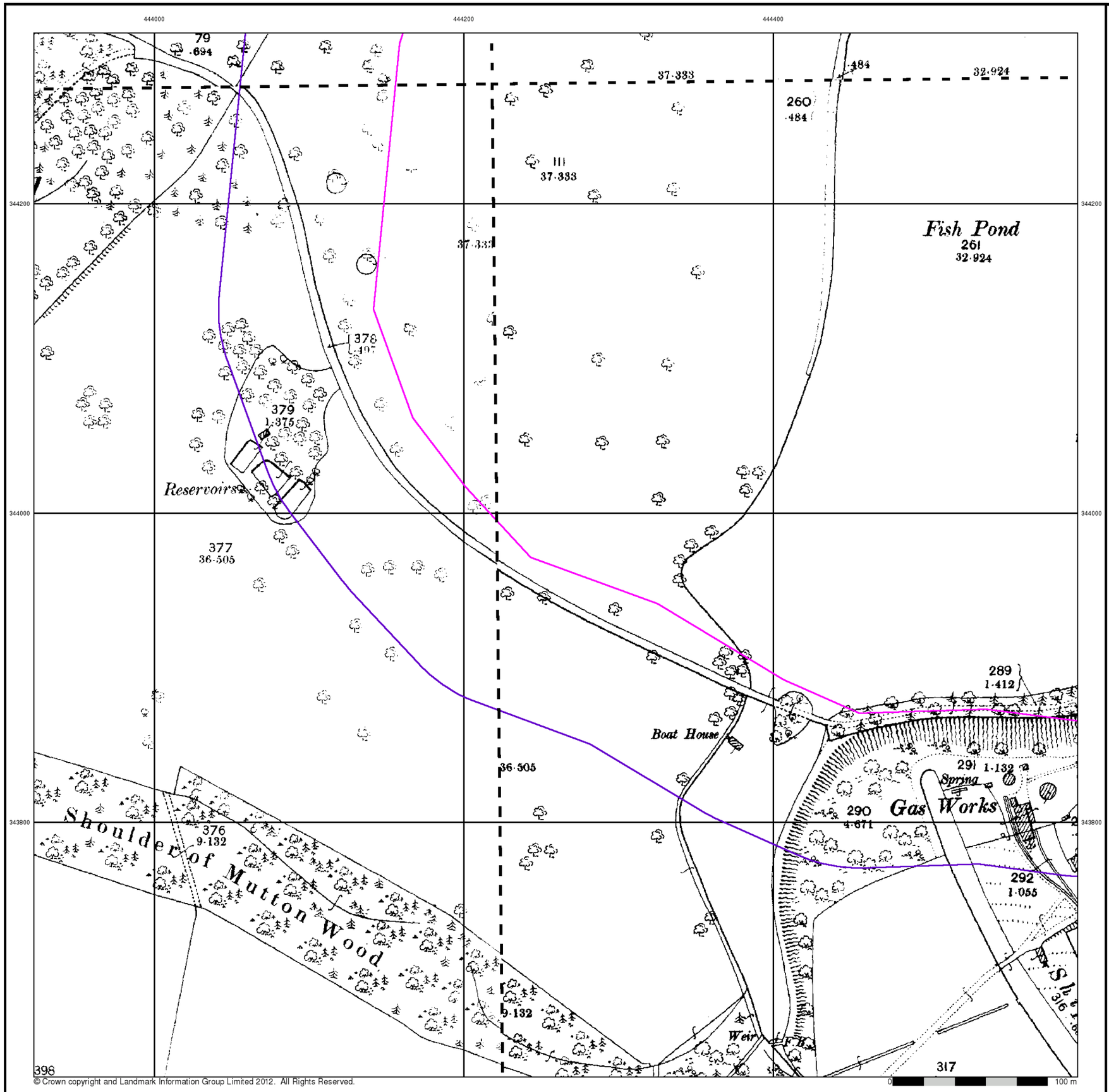

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Derbyshire

Published 1900

Source map scale - 1:2,500

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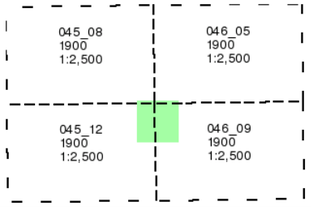
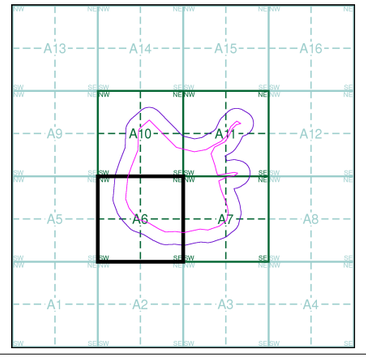


Historical Map - Segment A6



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Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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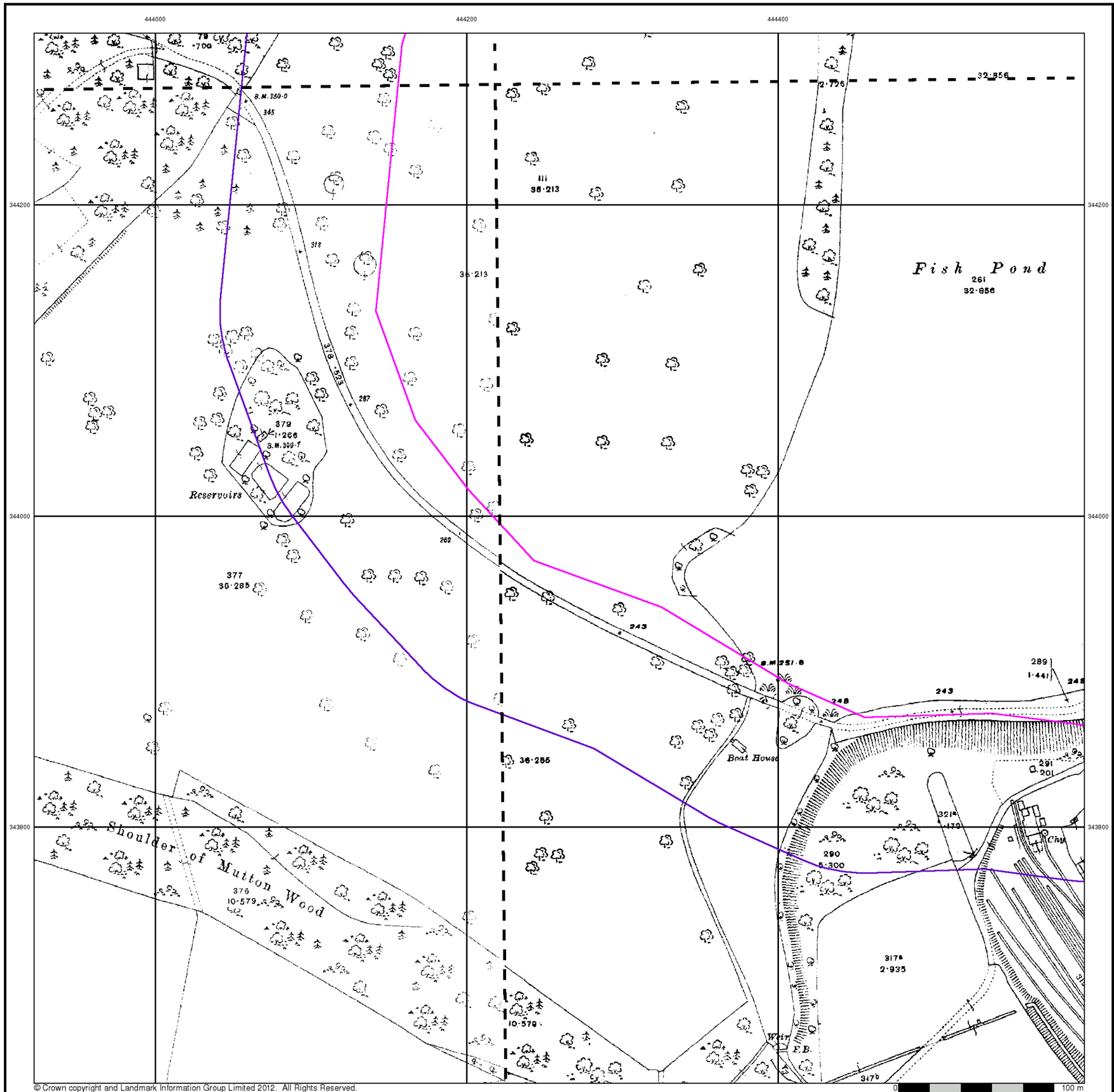

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Derbyshire

Published 1914 - 1915

Source map scale - 1:2,500

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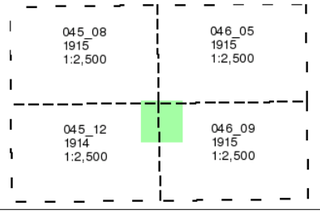
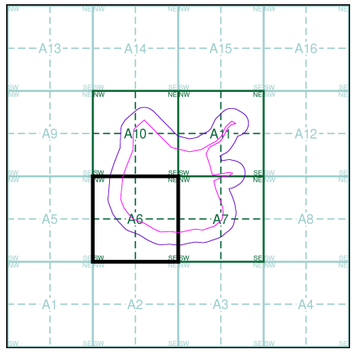
Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

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Slice:	A
Site Area (Ha):	49.51
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Site Details

Site at 445100, 344800

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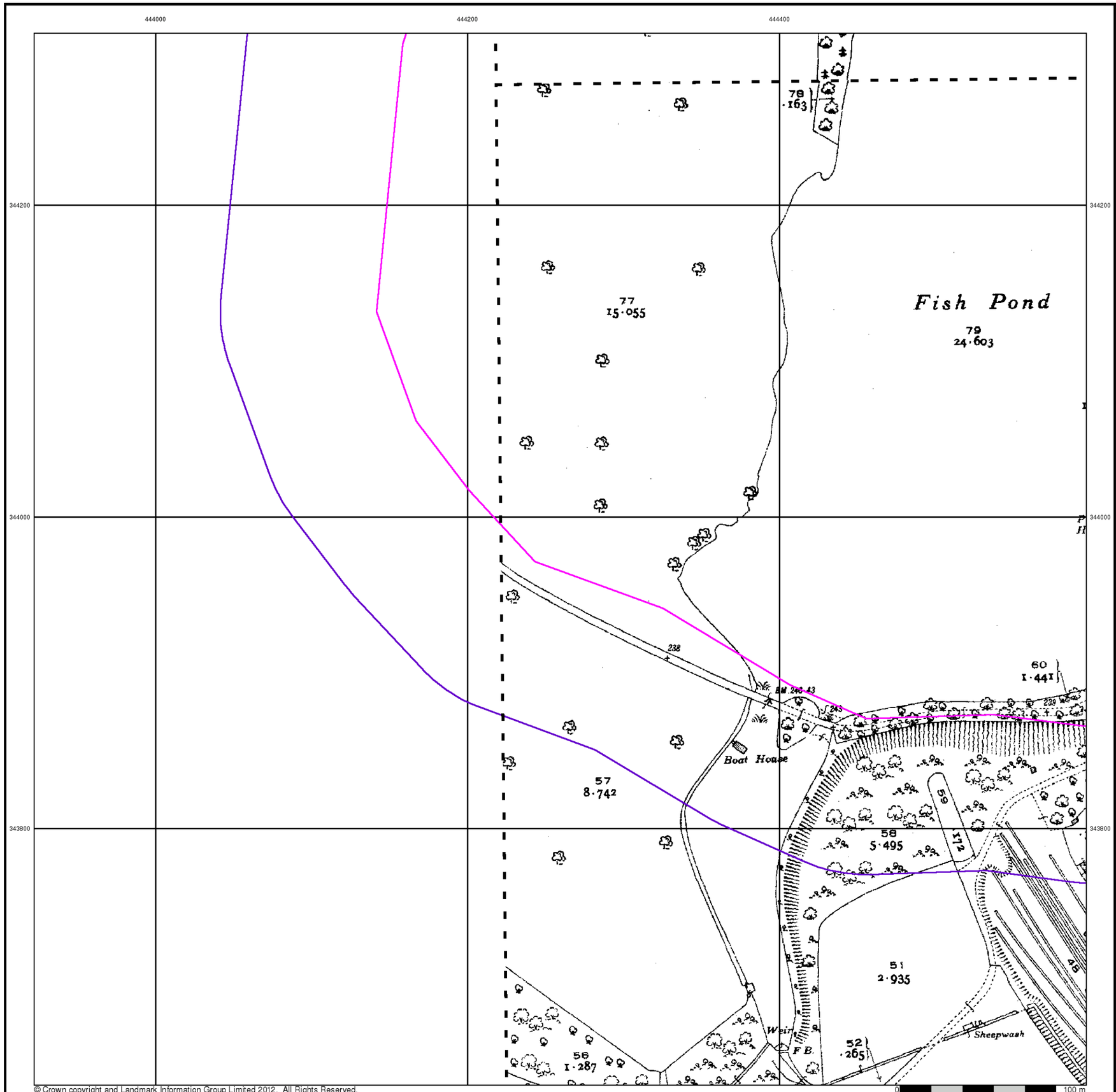

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Derbyshire

Published 1937 - 1938

Source map scale - 1:2,500

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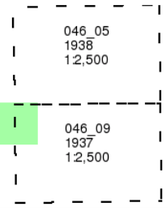
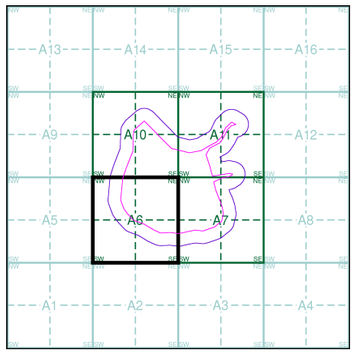
Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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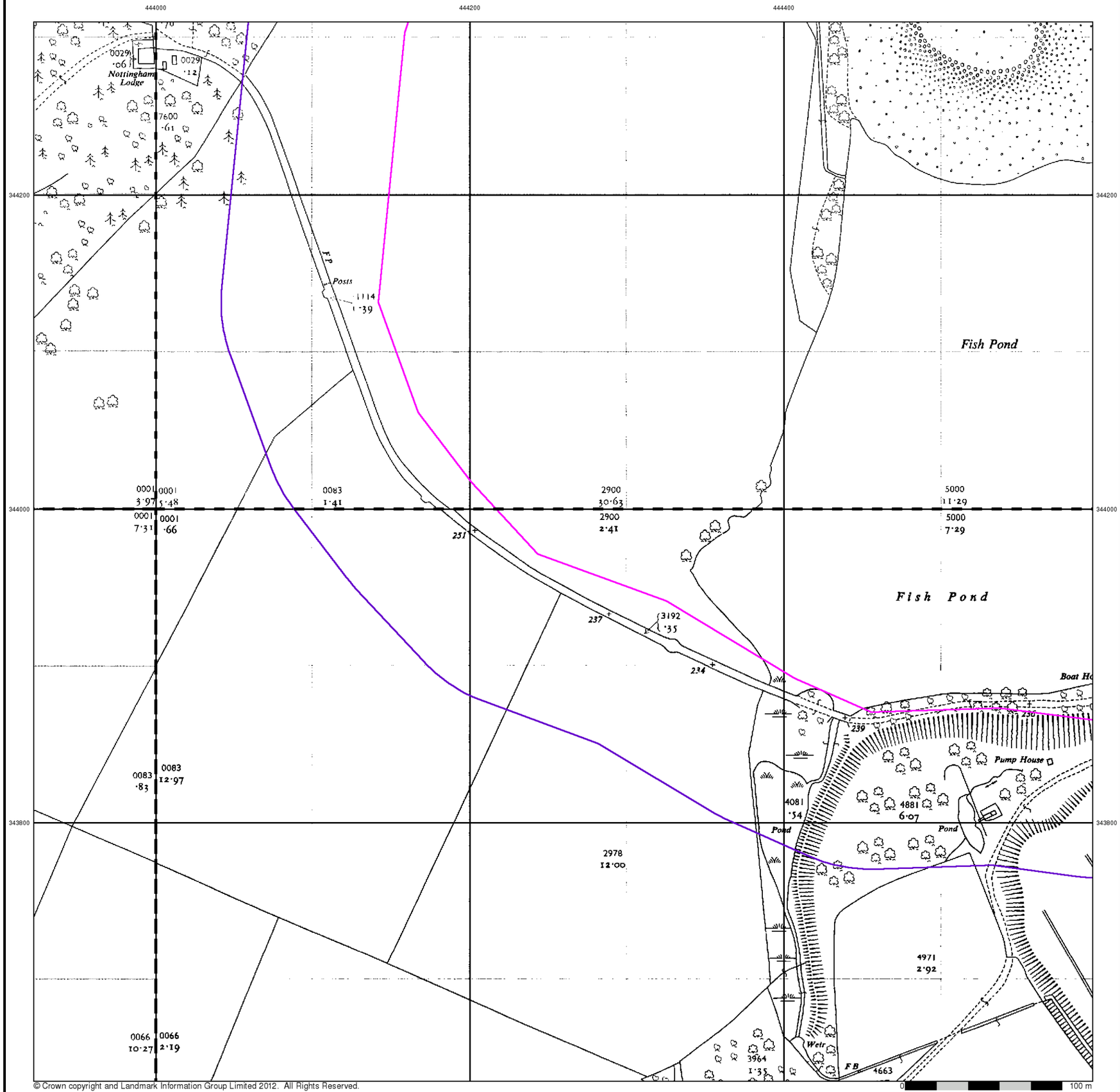

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Ordnance Survey Plan

Published 1959 - 1962

Source map scale - 1:2,500

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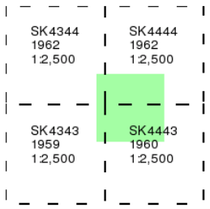
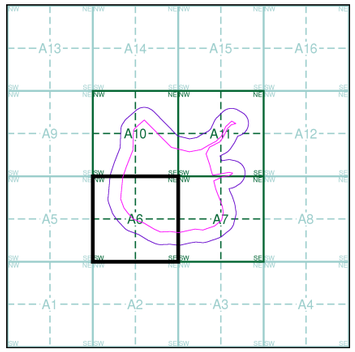
Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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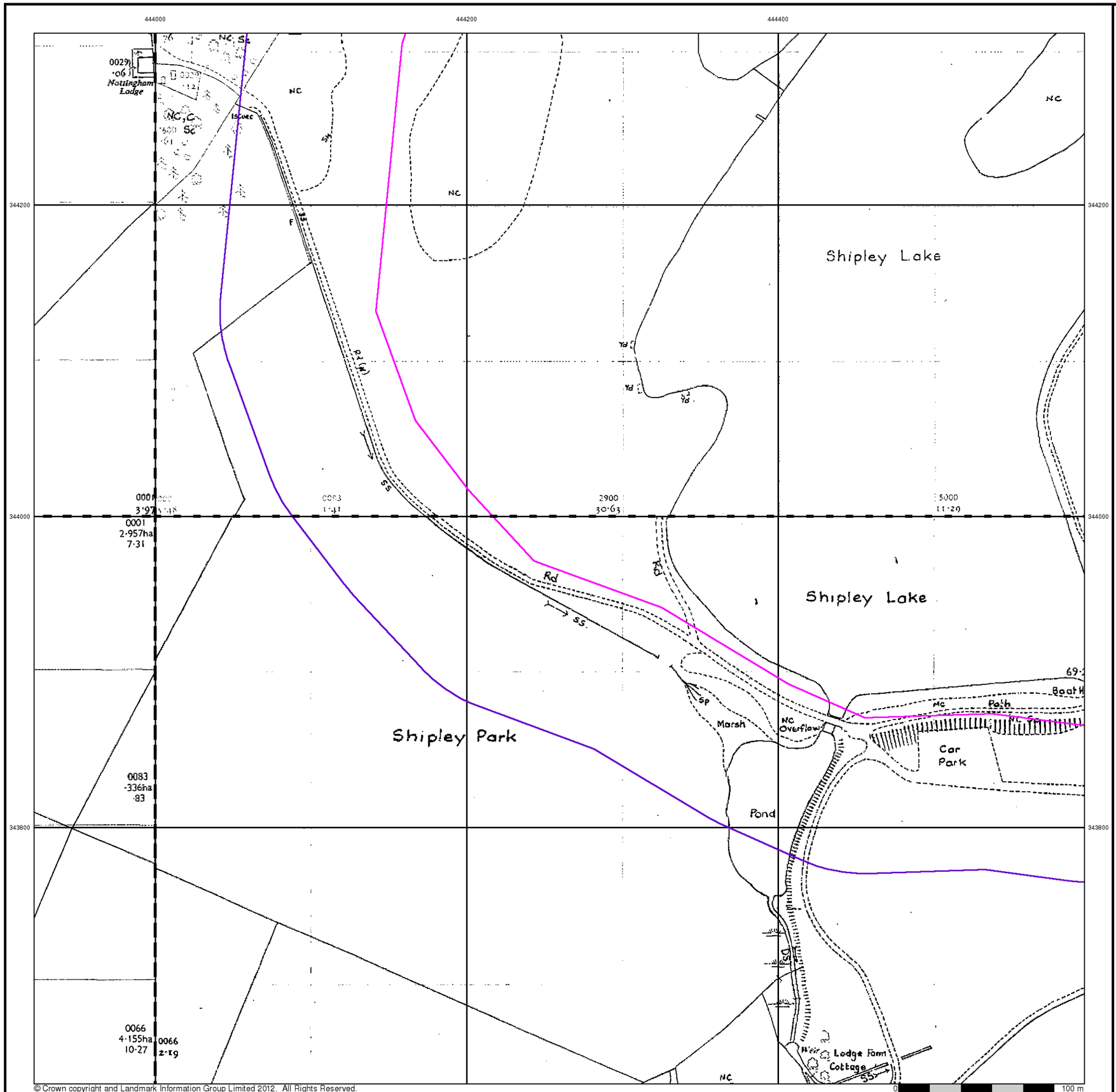

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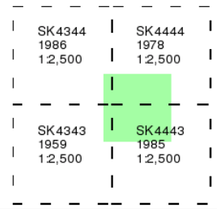
Additional SIMs

Published 1959 - 1986

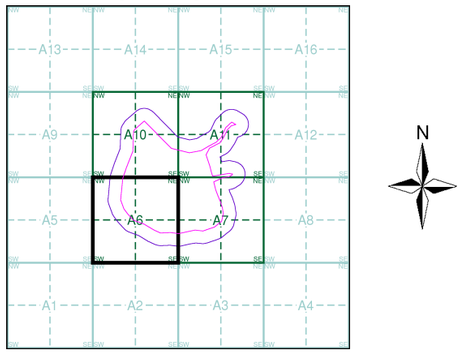
Source map scale - 1:2,500

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

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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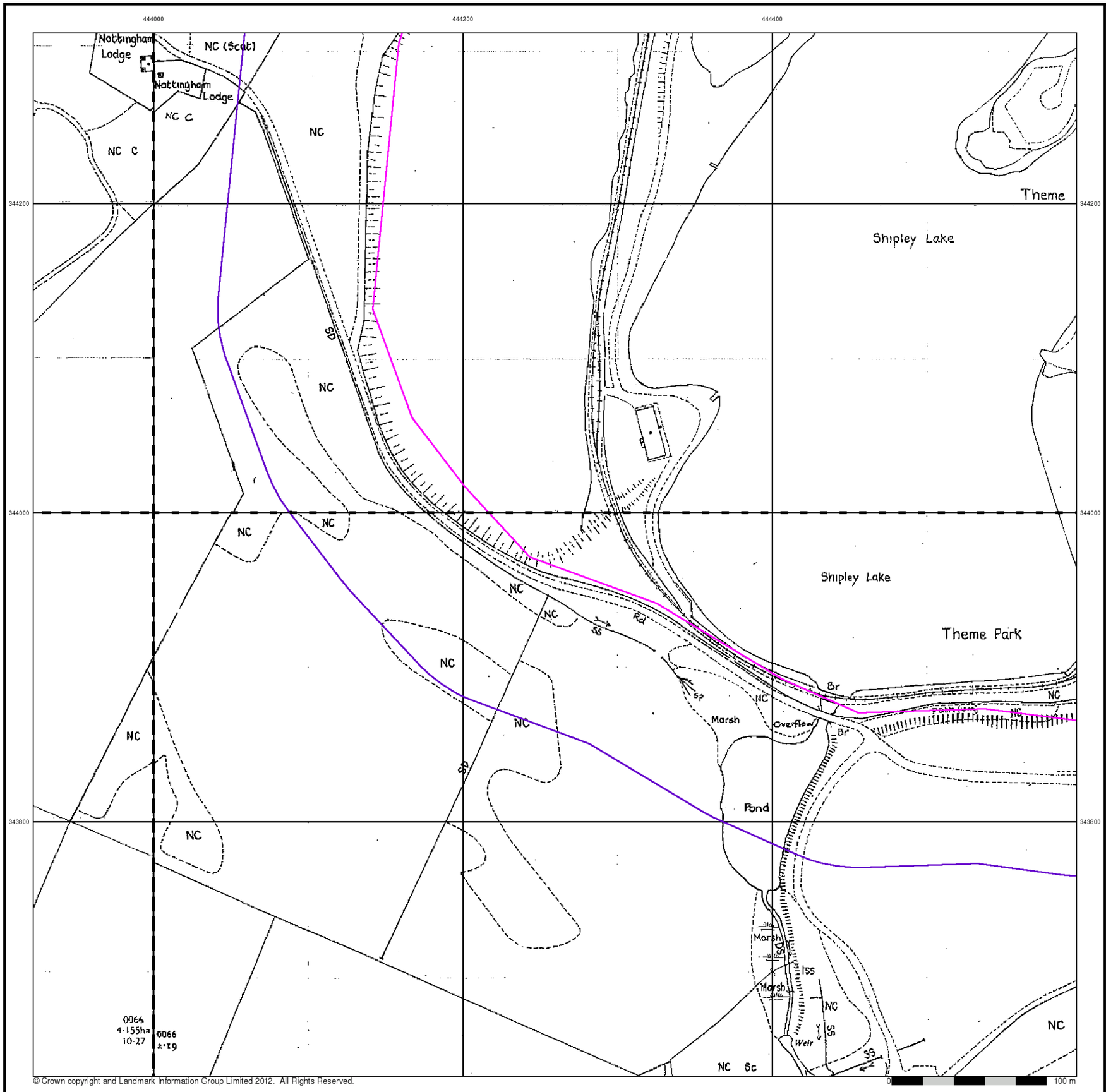

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Additional SIMs

Published 1988 - 1989

Source map scale - 1:2,500

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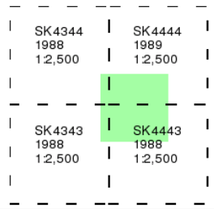
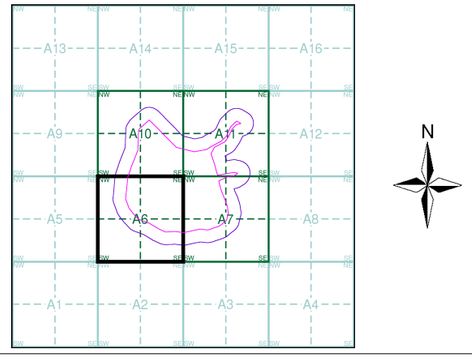
Map Name(s) and Date(s)



Historical Map - Segment A6



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Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
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Site Details

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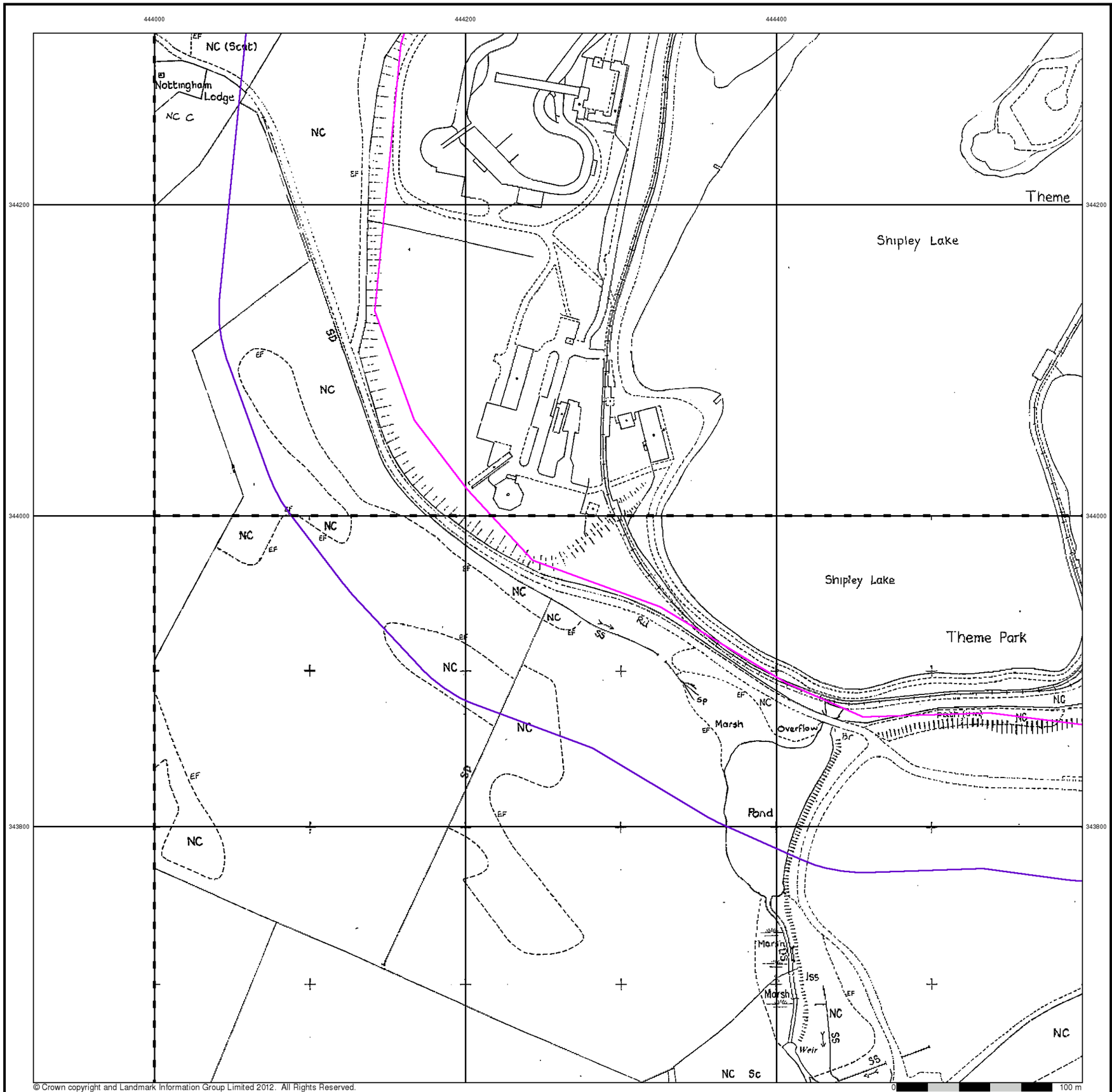

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Additional SIMs

Published 1991

Source map scale - 1:2,500

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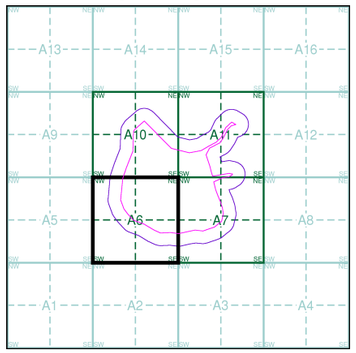
Map Name(s) and Date(s)

SK4444 1991 1:2,500

SK4443 1991 1:2,500

Historical Map - Segment A6



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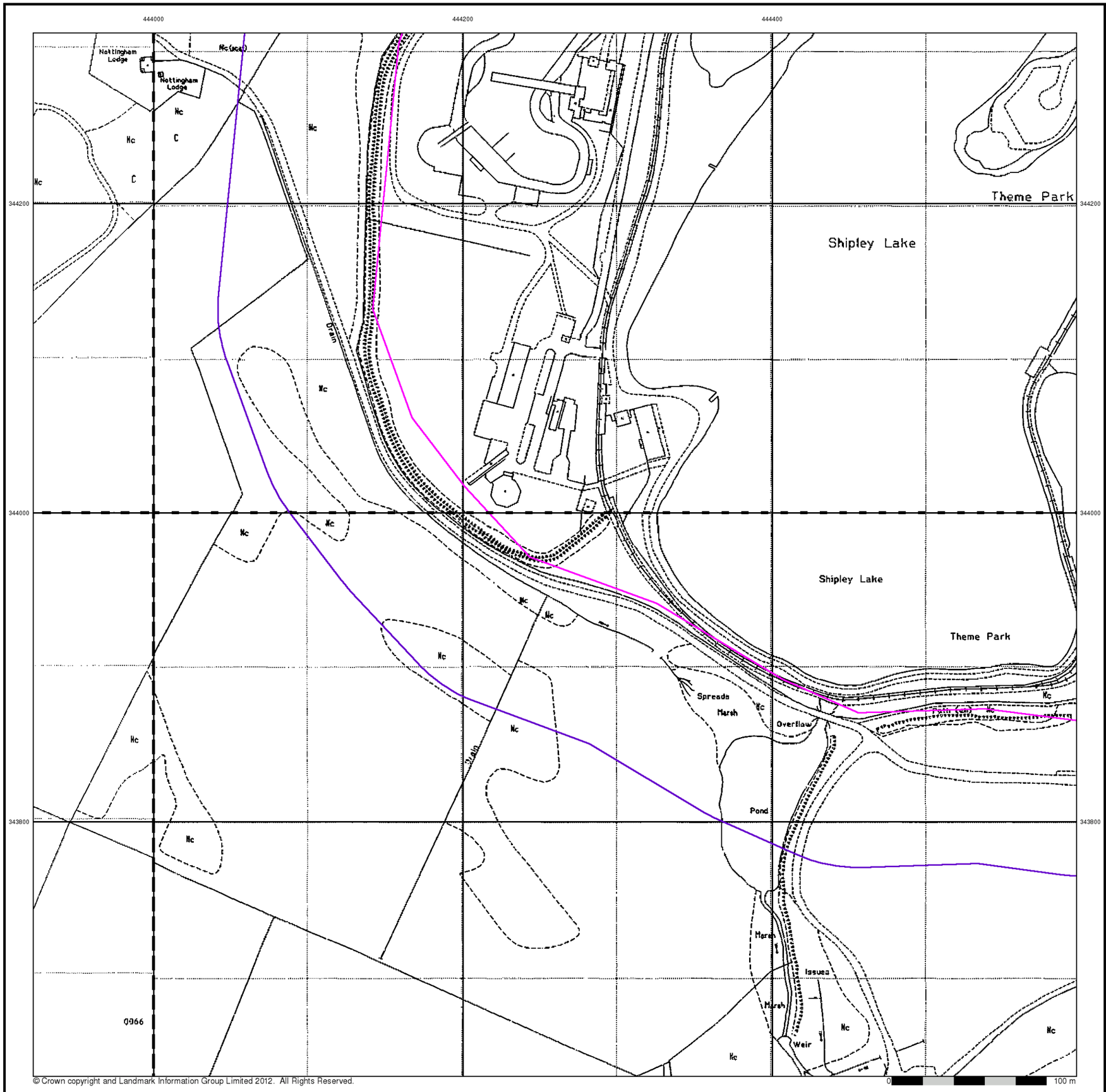

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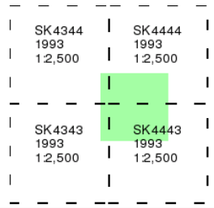
Large-Scale National Grid Data

Published 1993

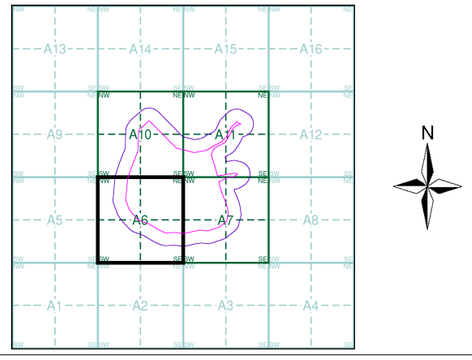
Source map scale - 1:2,500

'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



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Large-Scale National Grid Data

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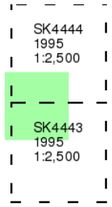
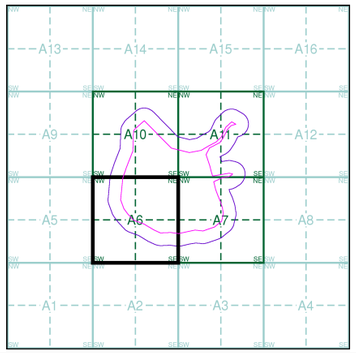


Historical Map - Segment A6



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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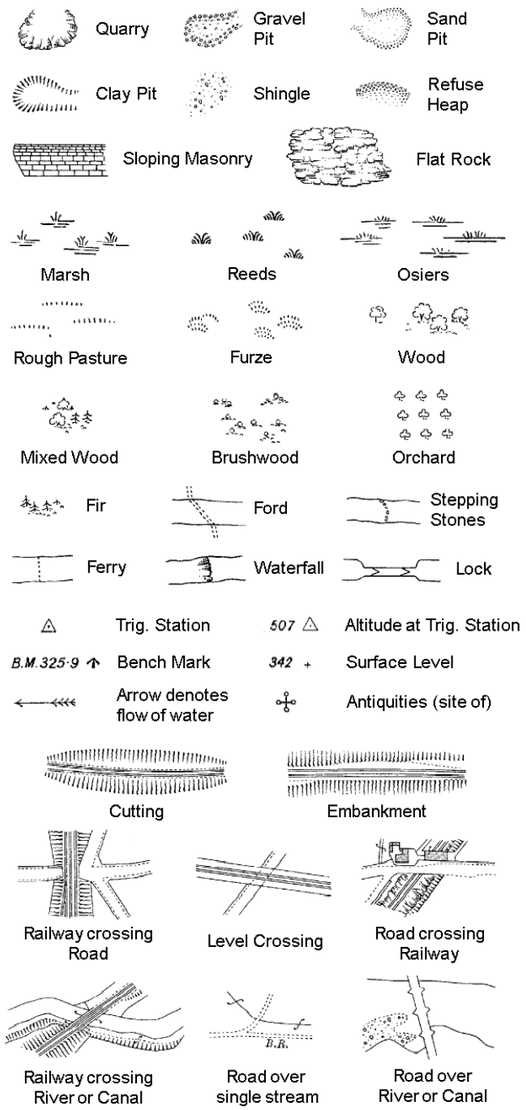
Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)

County & Civil Parish Boundary

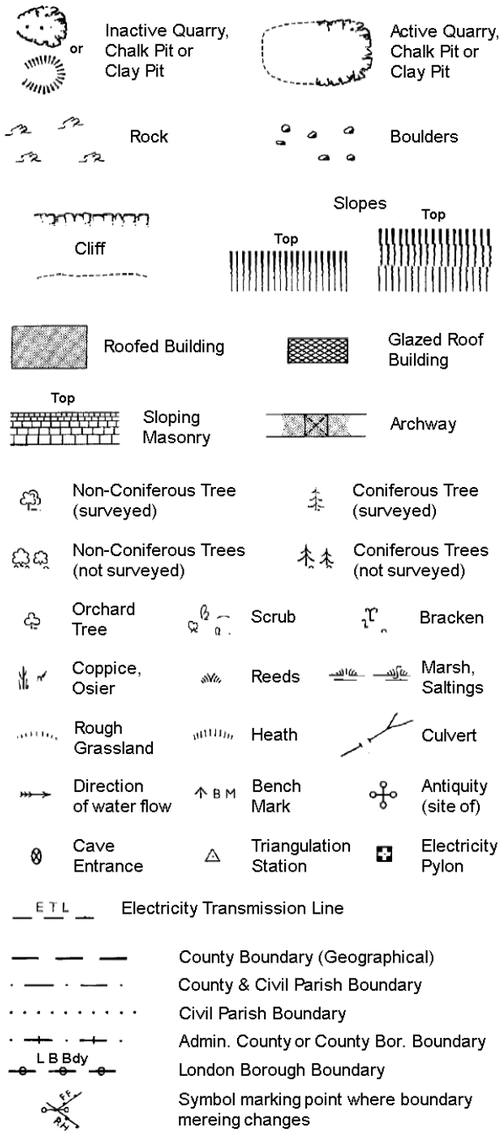
Administrative County & Civil Parish Boundary

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

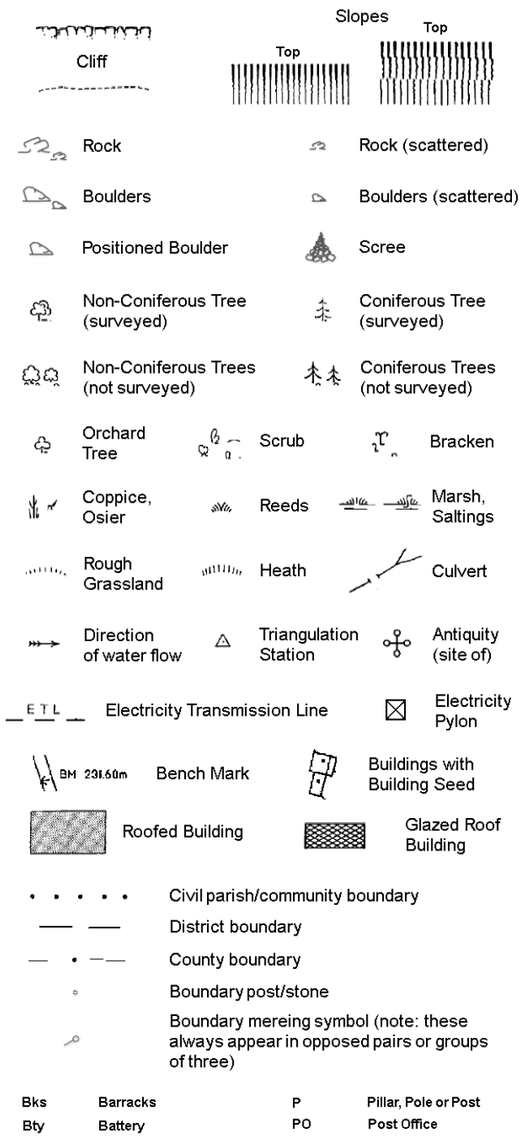
Admin. County or County Bor. Boundary

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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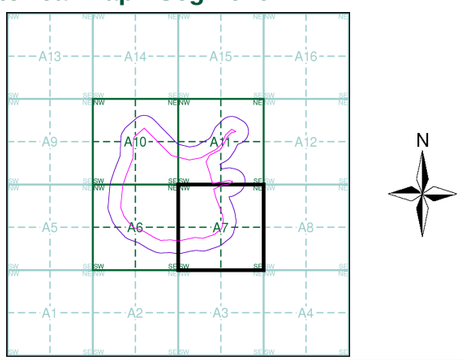
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1881	2
Derbyshire	1:2,500	1900	3
Derbyshire	1:2,500	1915	4
Derbyshire	1:2,500	1937 - 1938	5
Ordnance Survey Plan	1:2,500	1960 - 1962	6
Additional SIMs	1:2,500	1978 - 1990	7
Additional SIMs	1:2,500	1988 - 1989	8
Additional SIMs	1:2,500	1991	9
Large-Scale National Grid Data	1:1,250	1993	10
Large-Scale National Grid Data	1:2,500	1993	11
Large-Scale National Grid Data	1:1,250	1995	12
Large-Scale National Grid Data	1:2,500	1995	13

Historical Map - Segment A7



Order Details

Order Number:	41021474_1_1
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National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
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Site Details

Site at 445100, 344800

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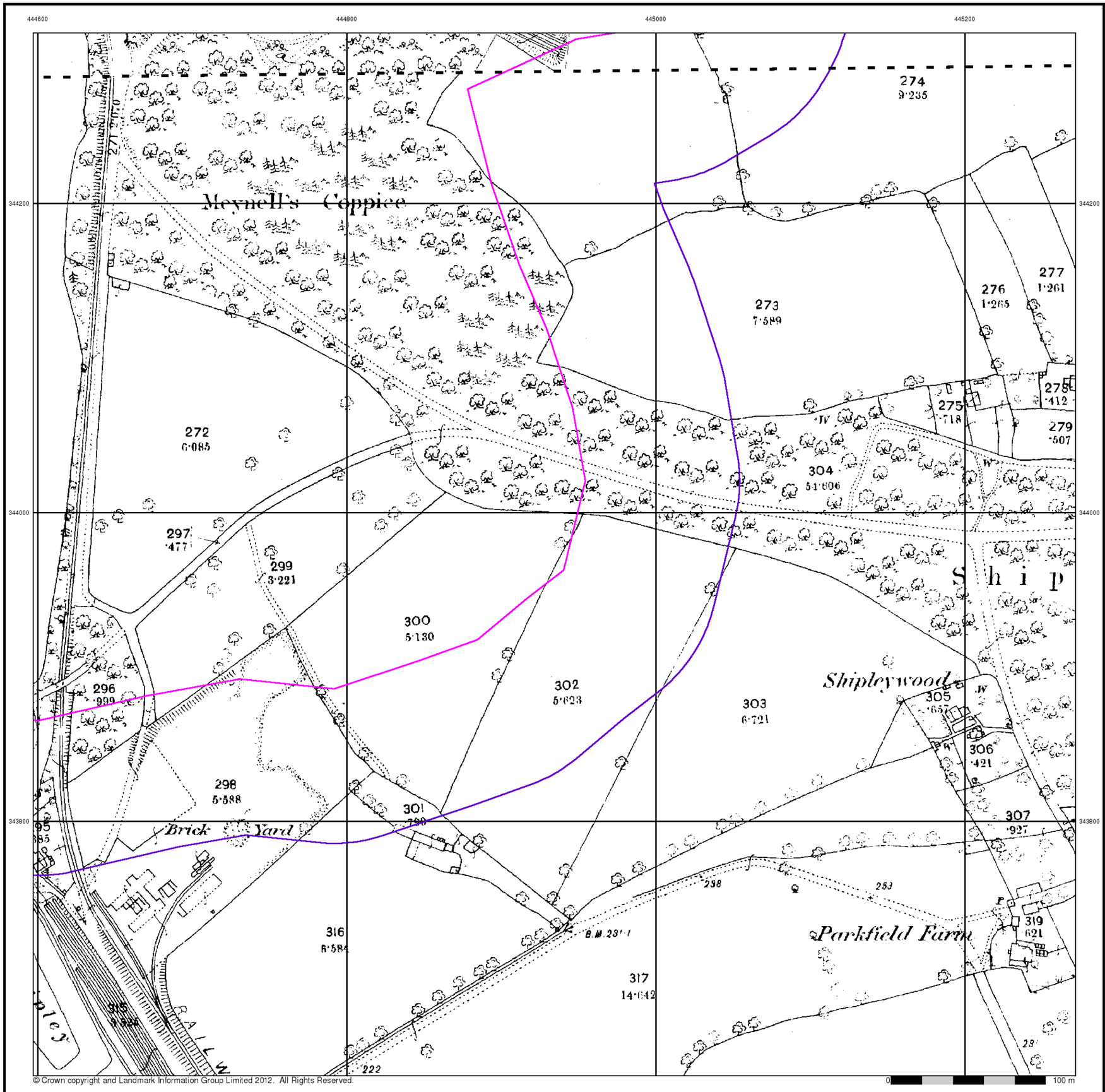

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Derbyshire

Published 1881

Source map scale - 1:2,500

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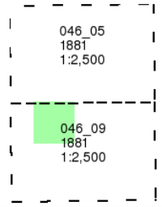
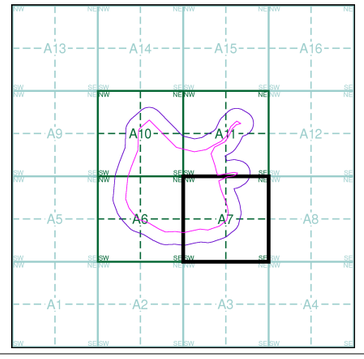
Map Name(s) and Date(s)



Historical Map - Segment A7



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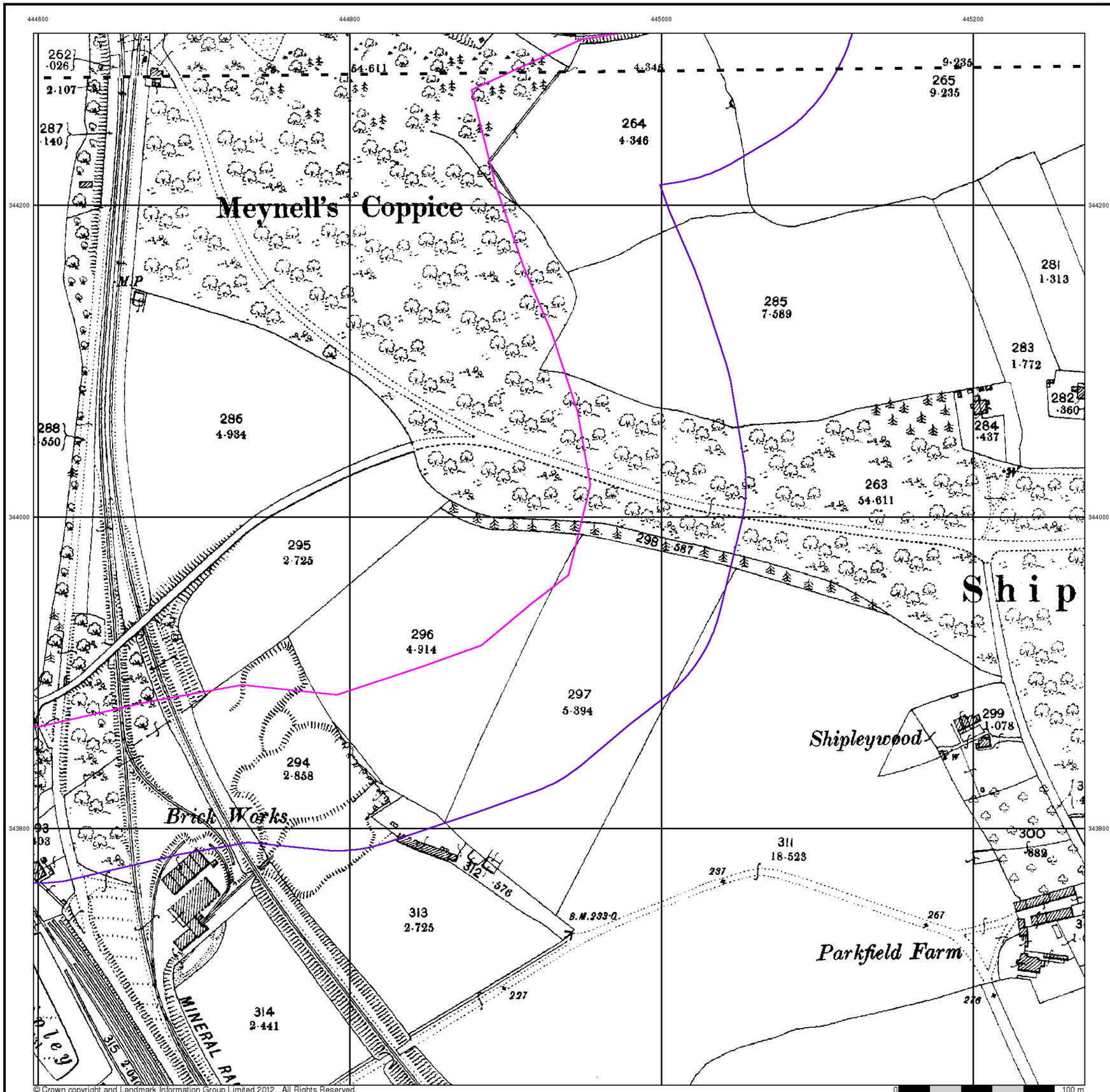

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Derbyshire

Published 1900

Source map scale - 1:2,500

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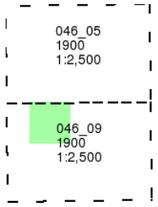
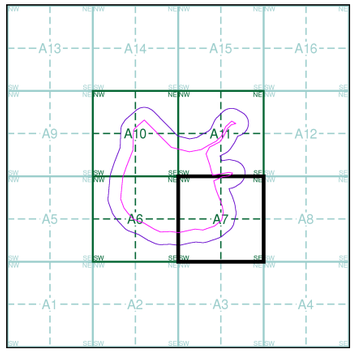
Map Name(s) and Date(s)



Historical Map - Segment A7



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Slice:	A
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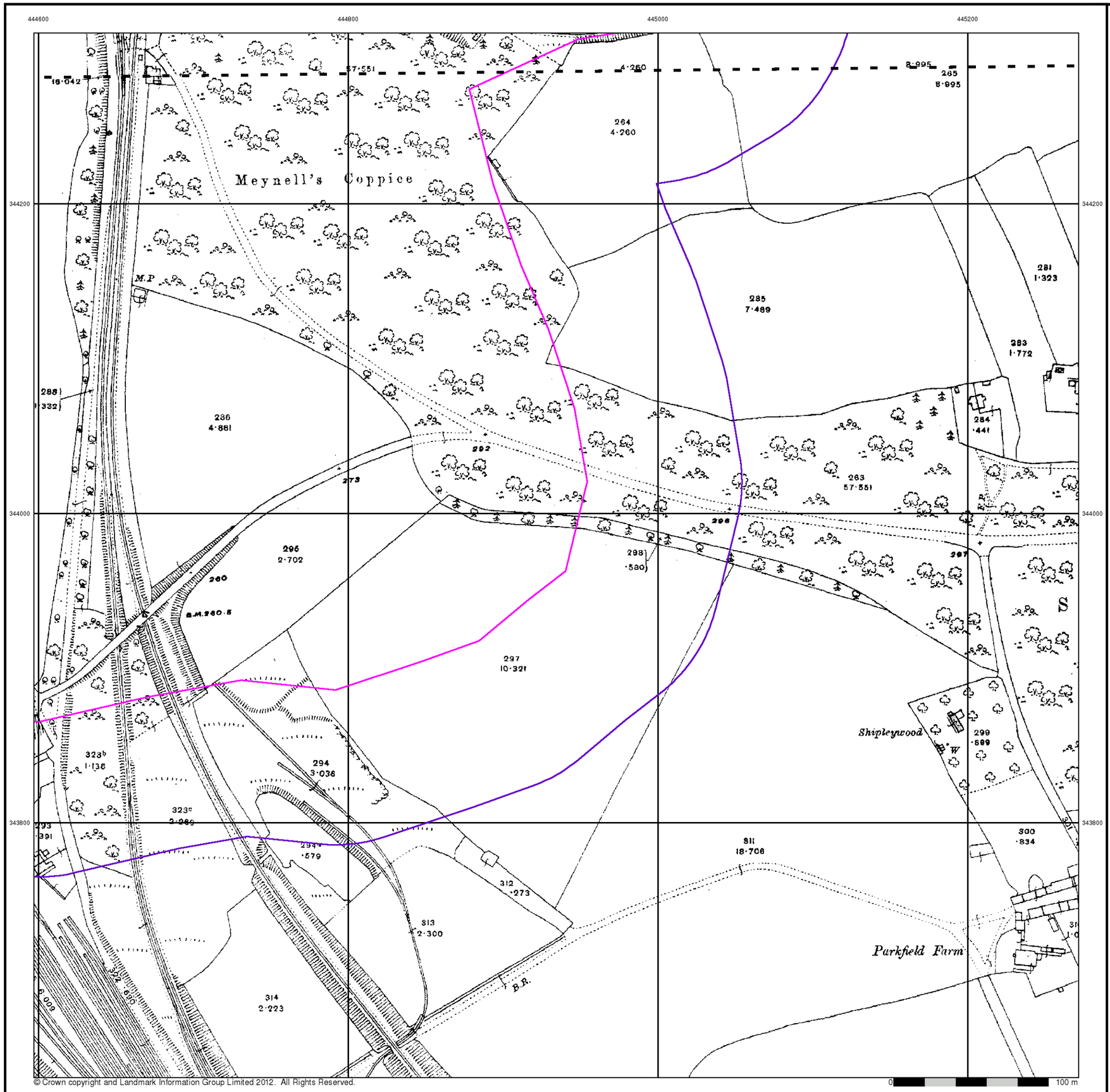

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Derbyshire

Published 1915

Source map scale - 1:2,500

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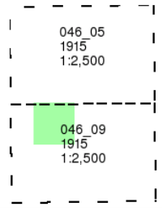
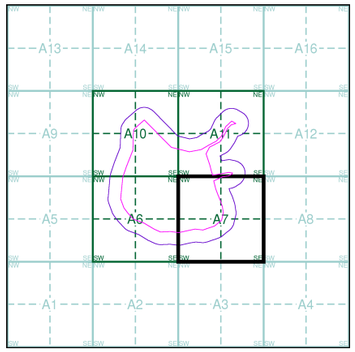
Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

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Slice:	A
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Site Details

Site at 445100, 344800

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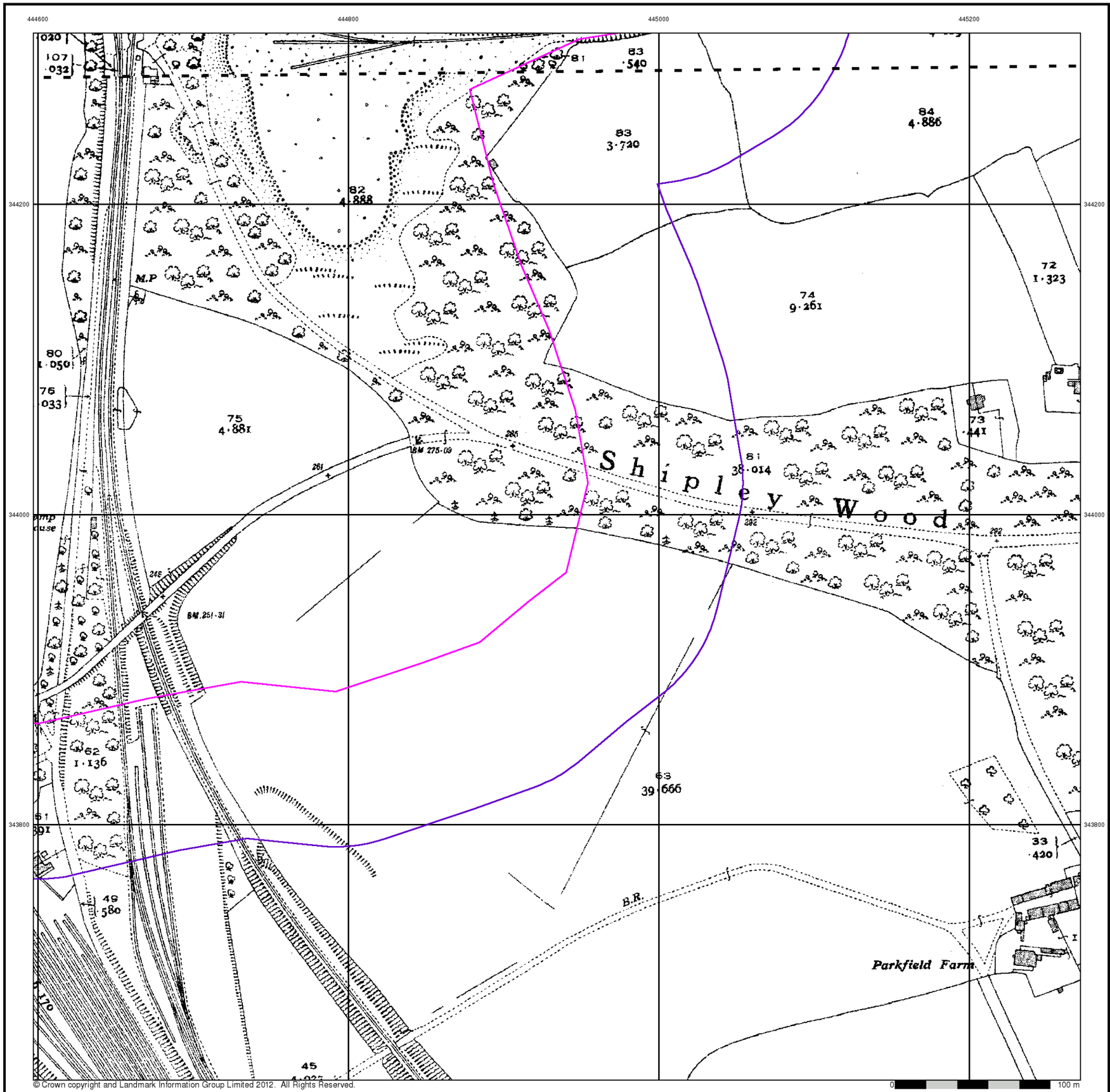

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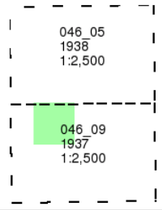
Derbyshire

Published 1937 - 1938

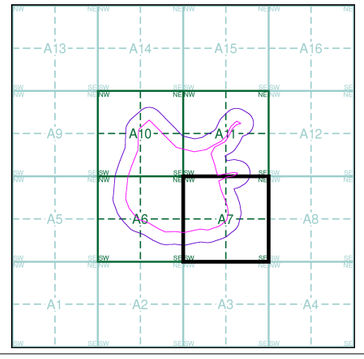
Source map scale - 1:2,500

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

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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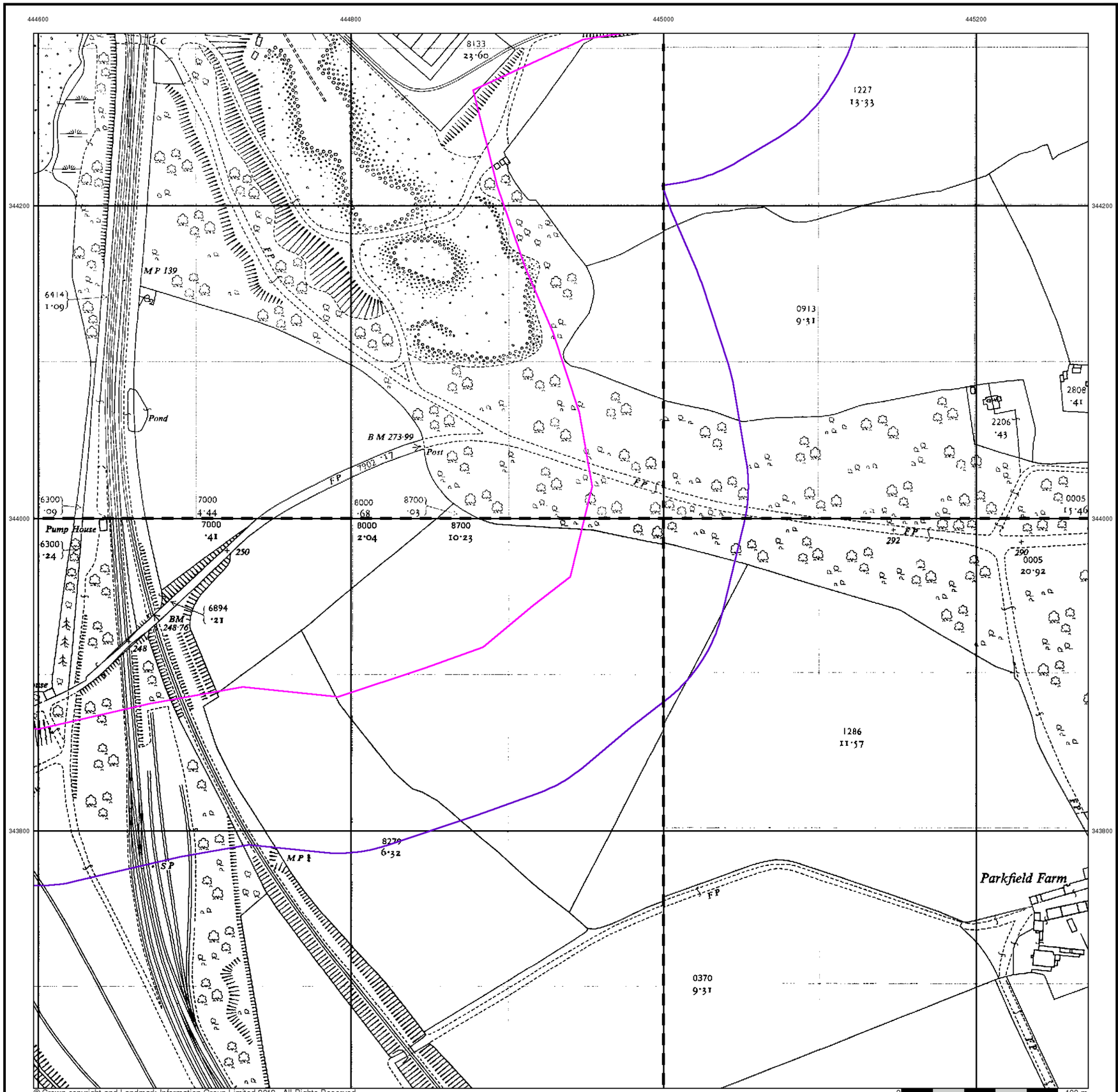

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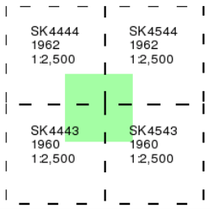
Ordnance Survey Plan

Published 1960 - 1962

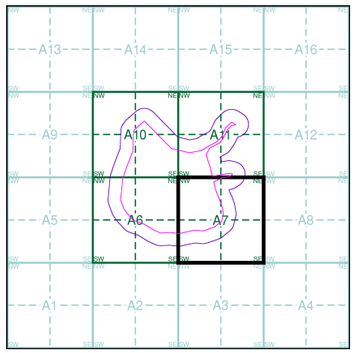
Source map scale - 1:2,500

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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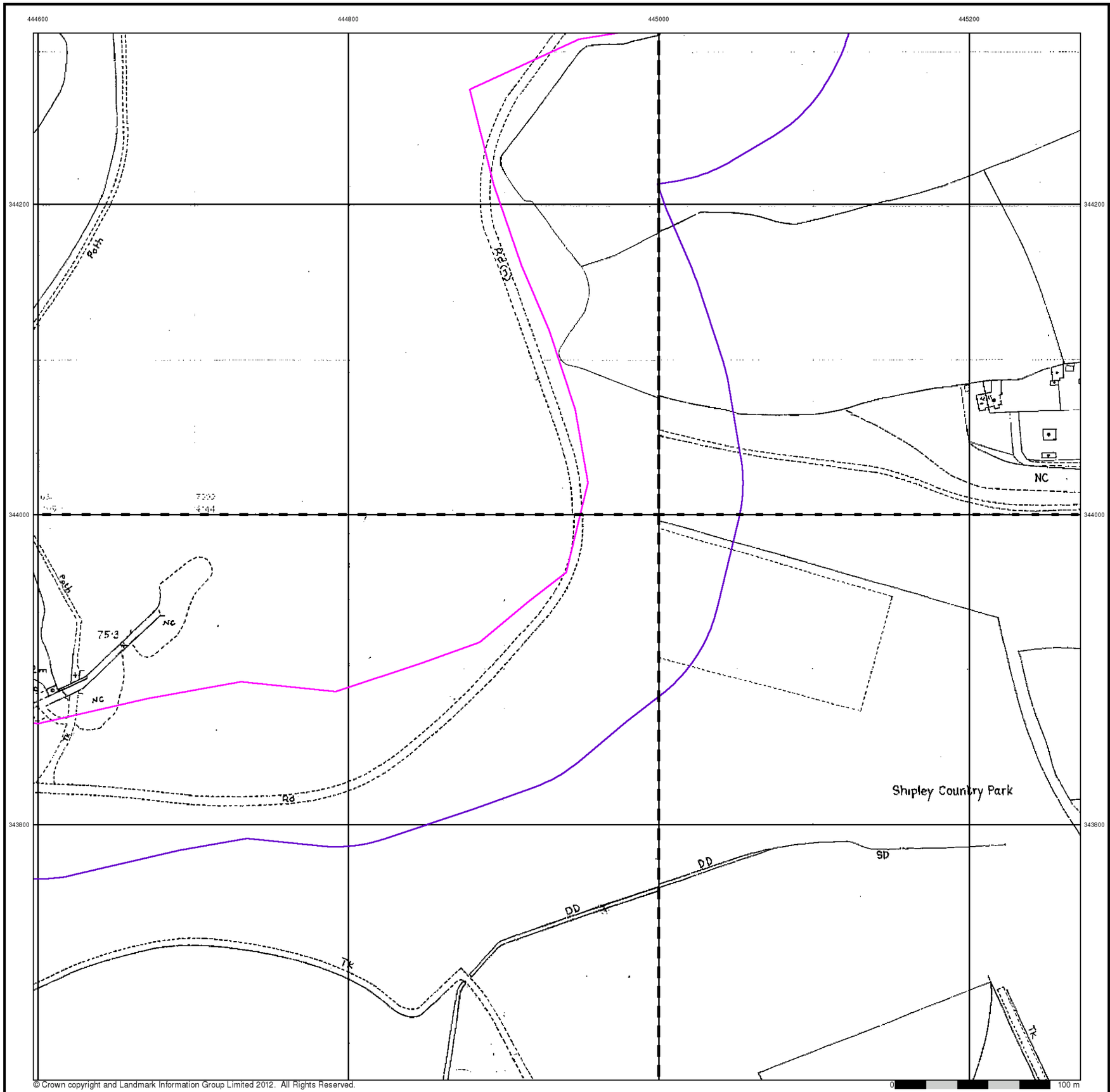

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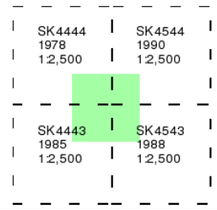
Additional SIMs

Published 1978 - 1990

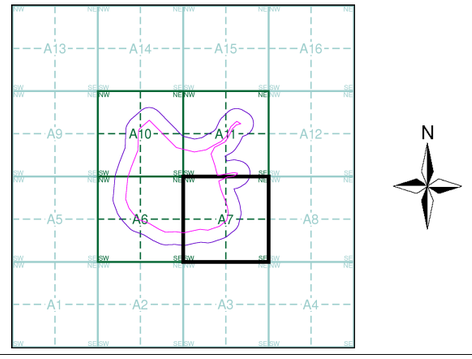
Source map scale - 1:2,500

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 A7



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Site at 445100, 344800

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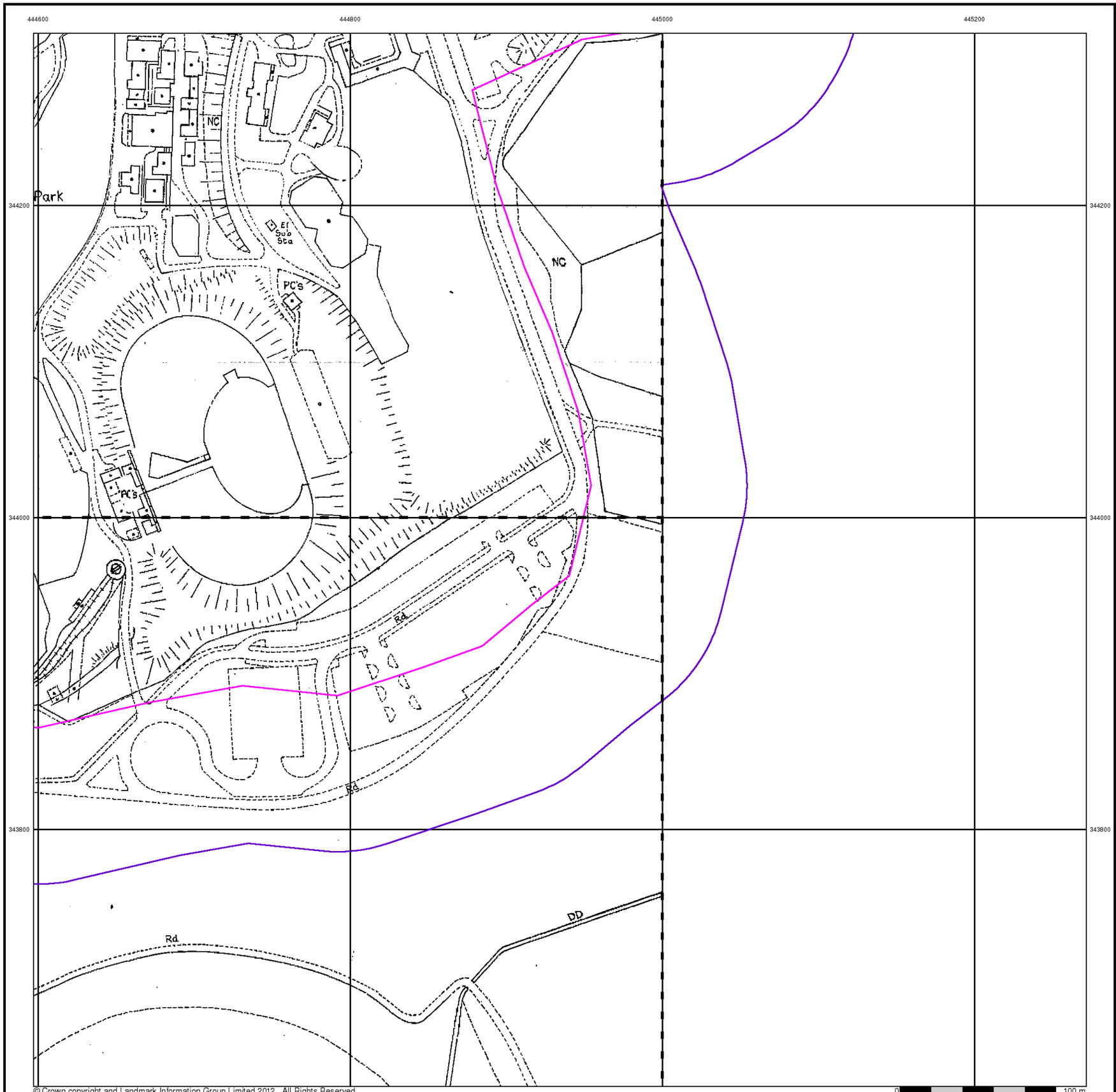

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Additional SIMs

Published 1988 - 1989

Source map scale - 1:2,500

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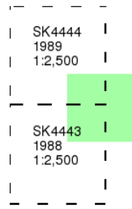
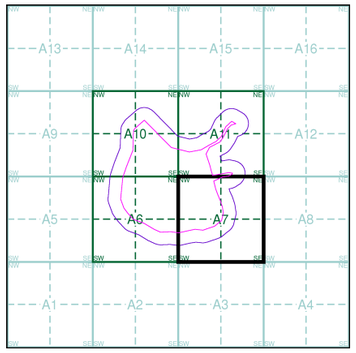
Map Name(s) and Date(s)



Historical Map - Segment A7



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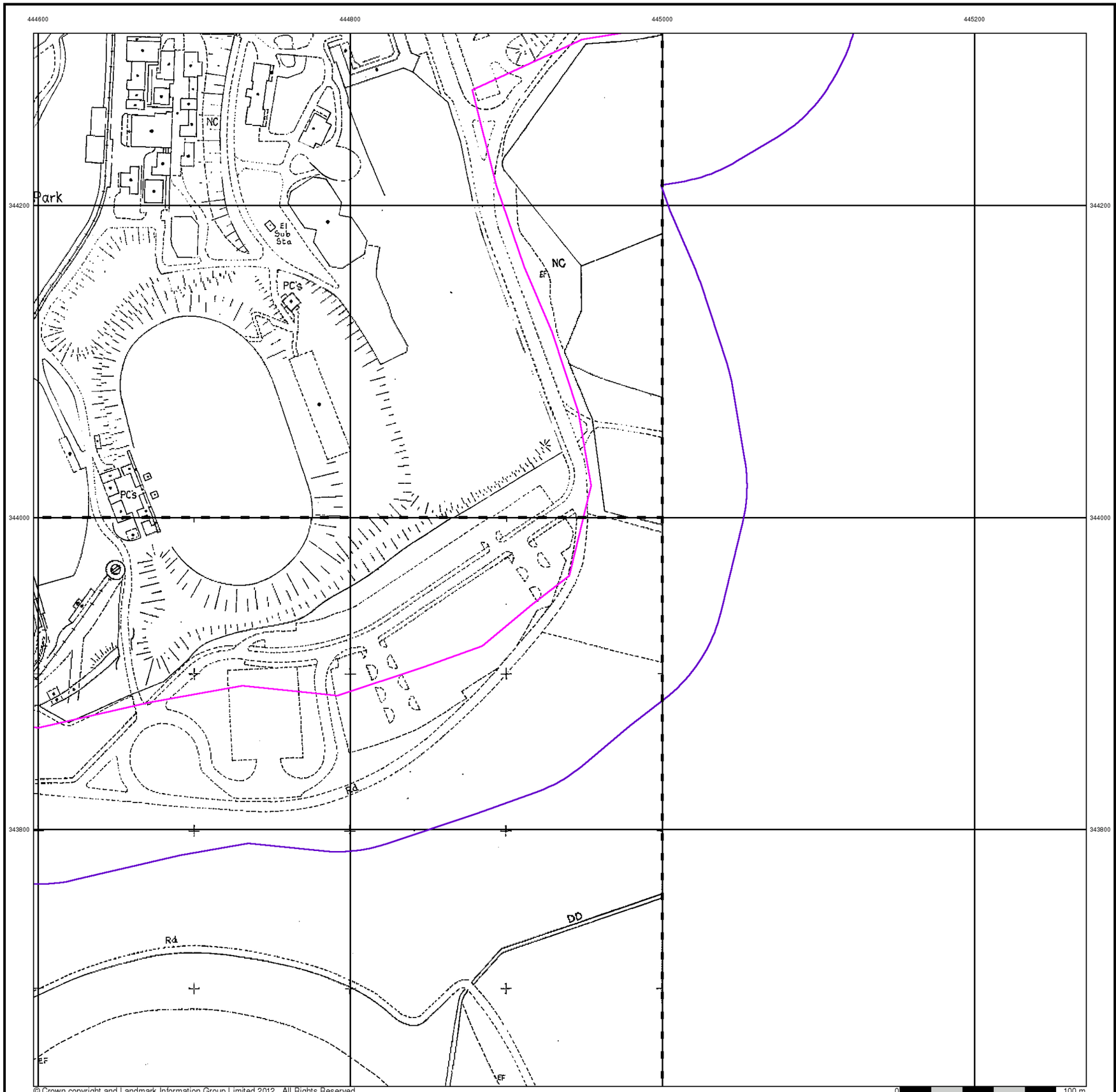

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Additional SIMs

Published 1991

Source map scale - 1:2,500

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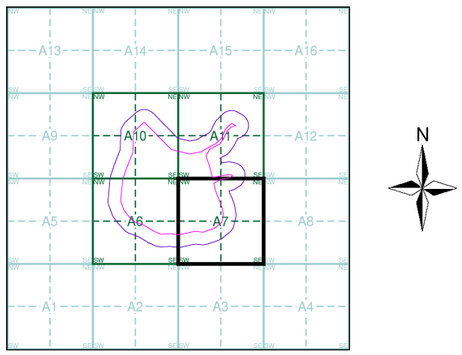
Map Name(s) and Date(s)

SK4444
1991
1:2,500

SK4443
1991
1:2,500

Historical Map - Segment A7



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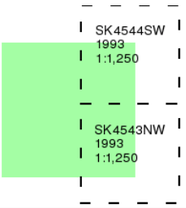
Large-Scale National Grid Data

Published 1993

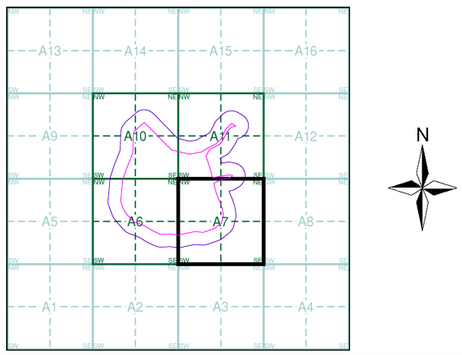
Source map scale - 1:1,250

'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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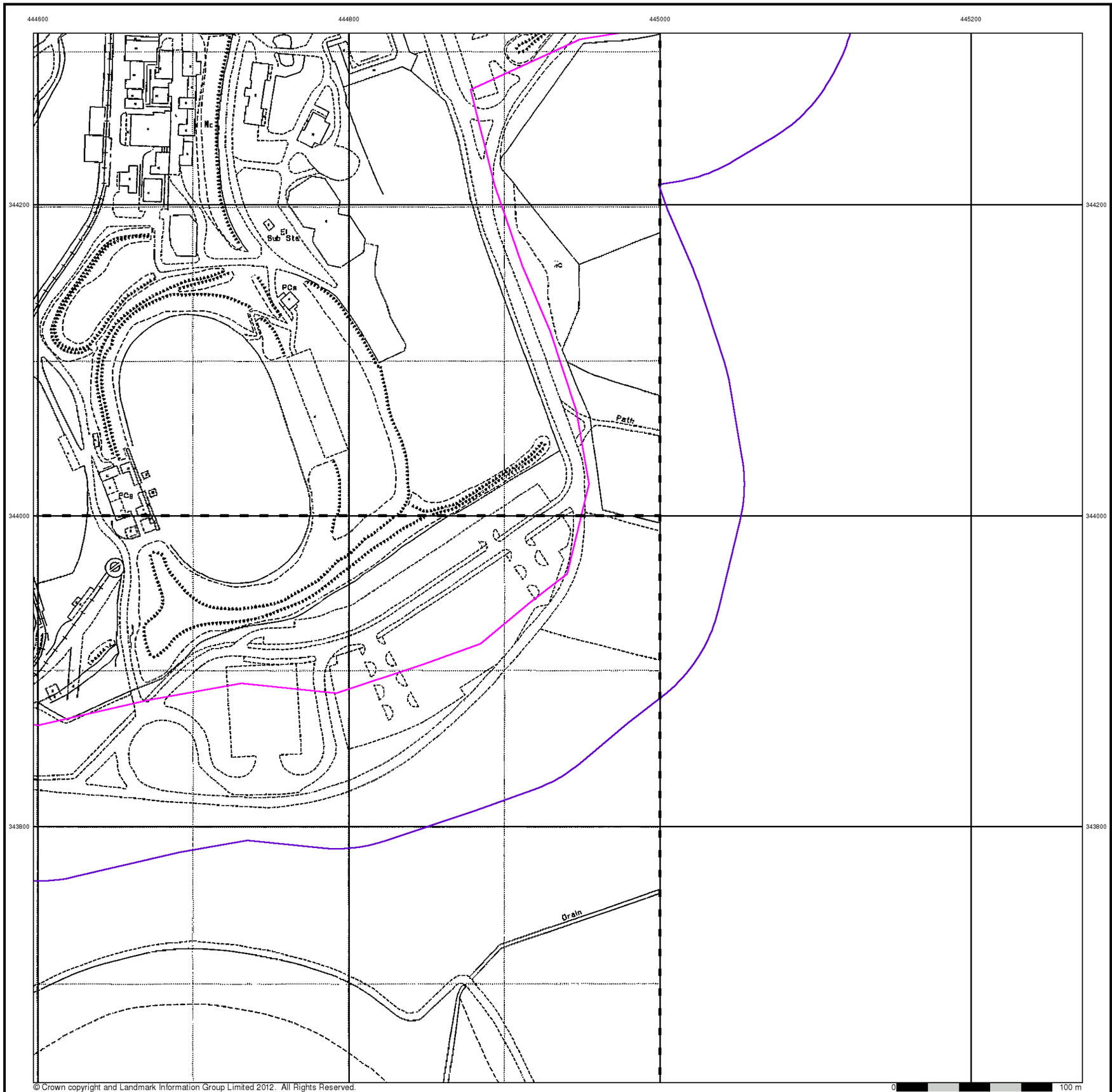

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Envirocheck®

Large-Scale National Grid Data

Published 1993

Source map scale - 1:2,500

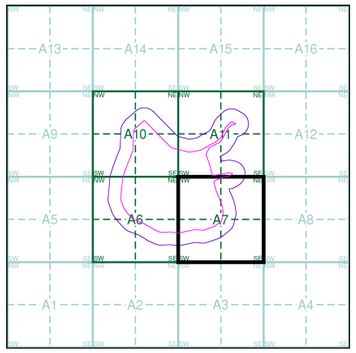
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK4444
1993
1:2,500

SK4443
1993
1:2,500

Historical Map - Segment A7



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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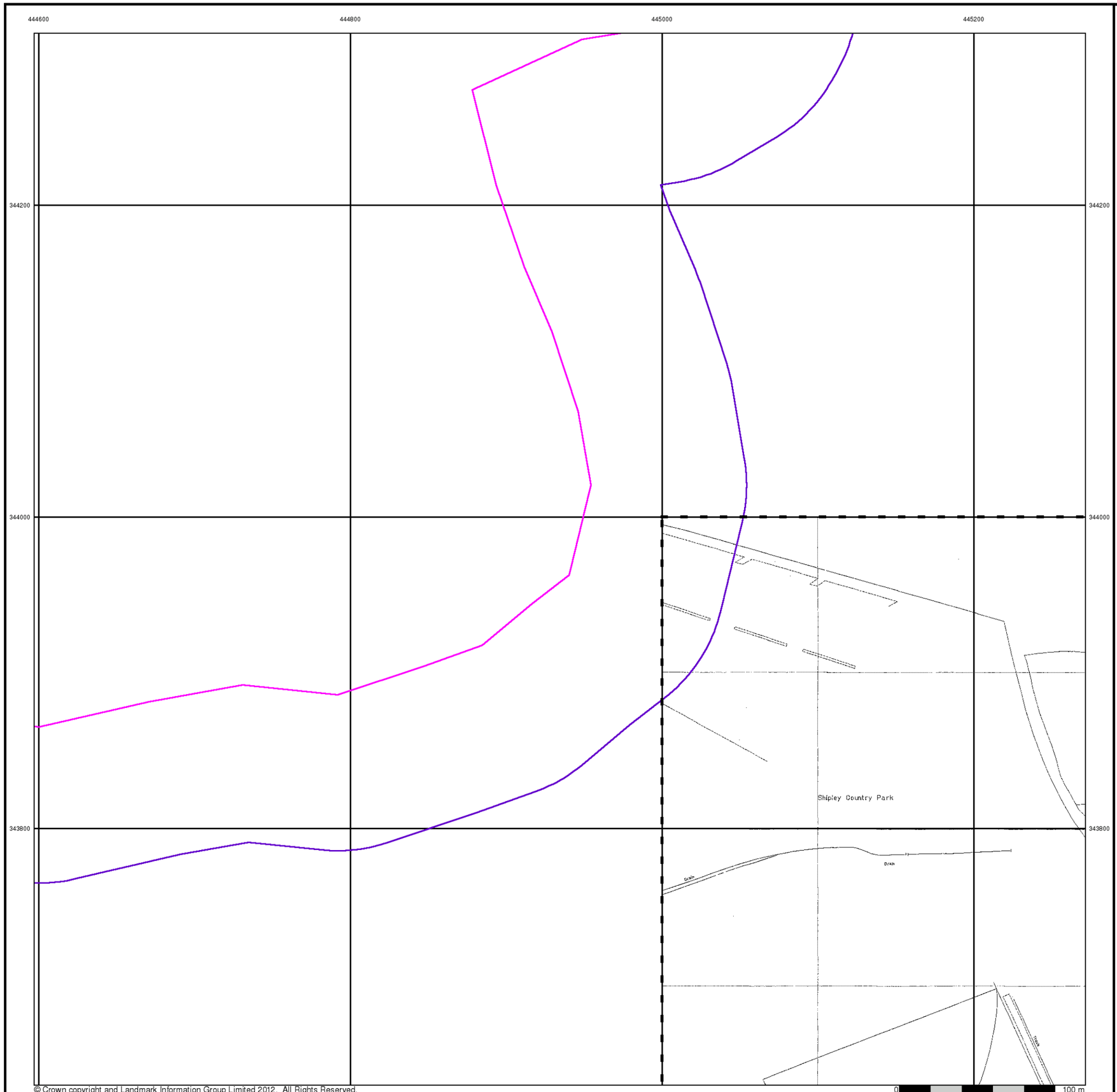

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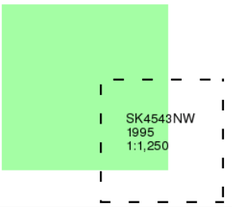
Large-Scale National Grid Data

Published 1995

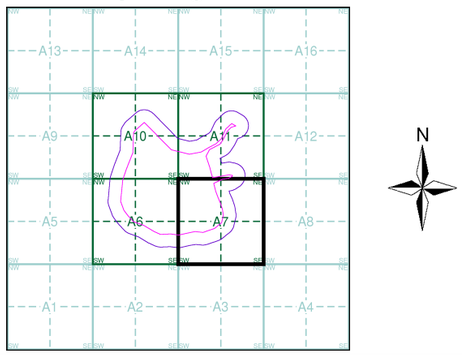
Source map scale - 1:1,250

'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:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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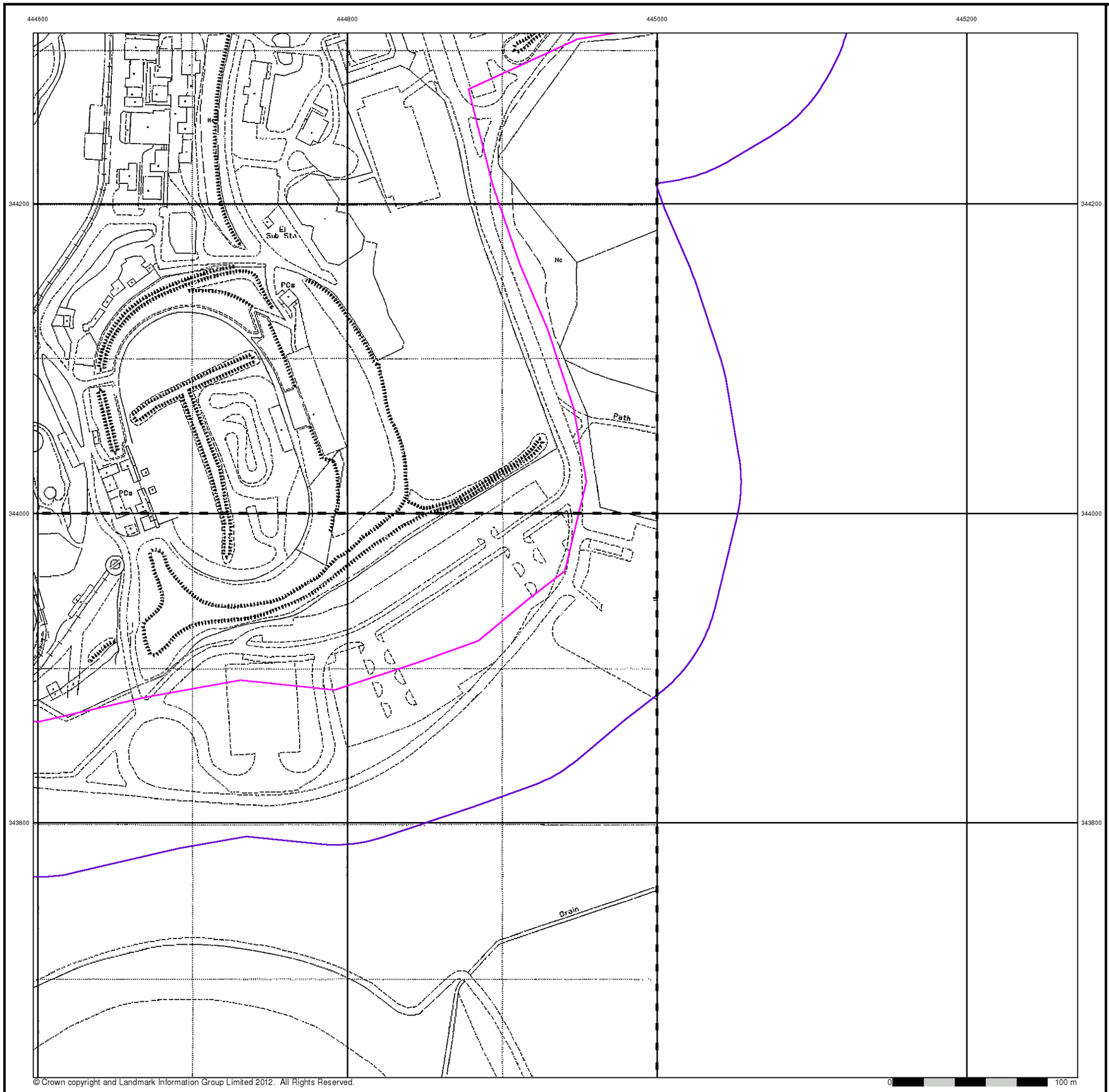

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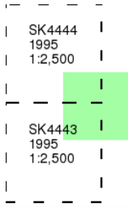
Large-Scale National Grid Data

Published 1995

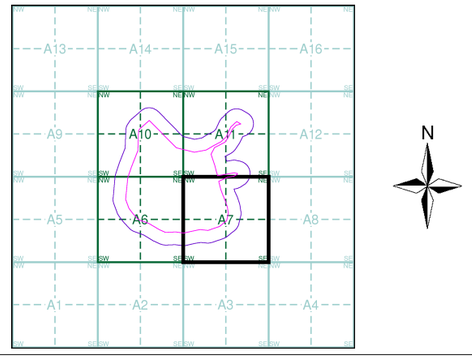
Source map scale - 1:2,500

'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 A7



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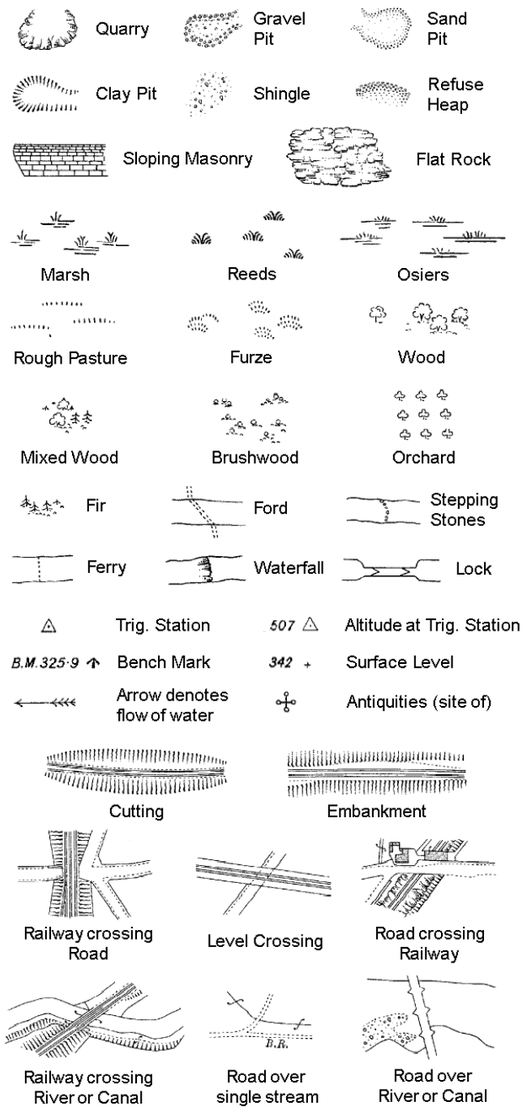
Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)

County & Civil Parish Boundary

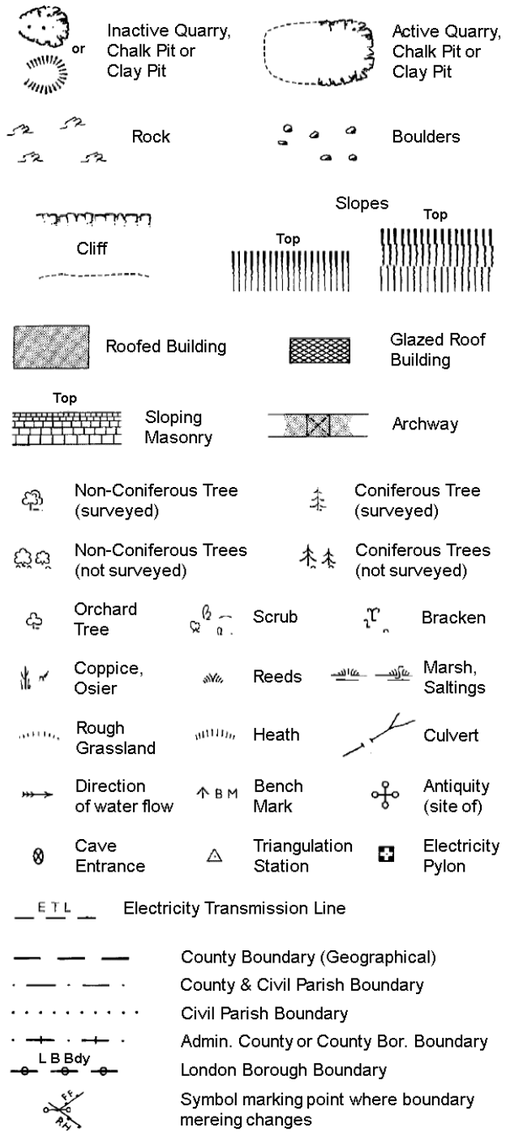
Administrative County & Civil Parish Boundary

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

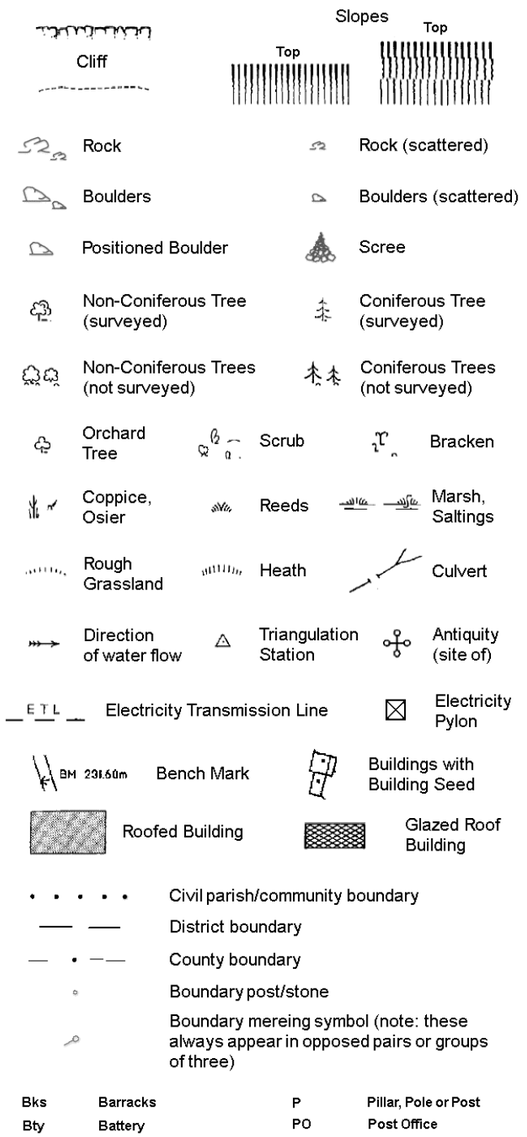
Admin. County or County Bor. Boundary

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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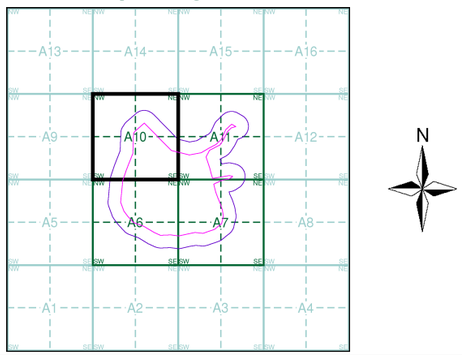
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1881	2
Derbyshire	1:2,500	1900	3
Derbyshire	1:2,500	1915	4
Derbyshire	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1962	6
Additional SIMs	1:2,500	1978 - 1986	7
Additional SIMs	1:2,500	1988 - 1989	8
Additional SIMs	1:2,500	1991	9
Large-Scale National Grid Data	1:2,500	1993	10
Large-Scale National Grid Data	1:2,500	1995	11

Historical Map - Segment A10



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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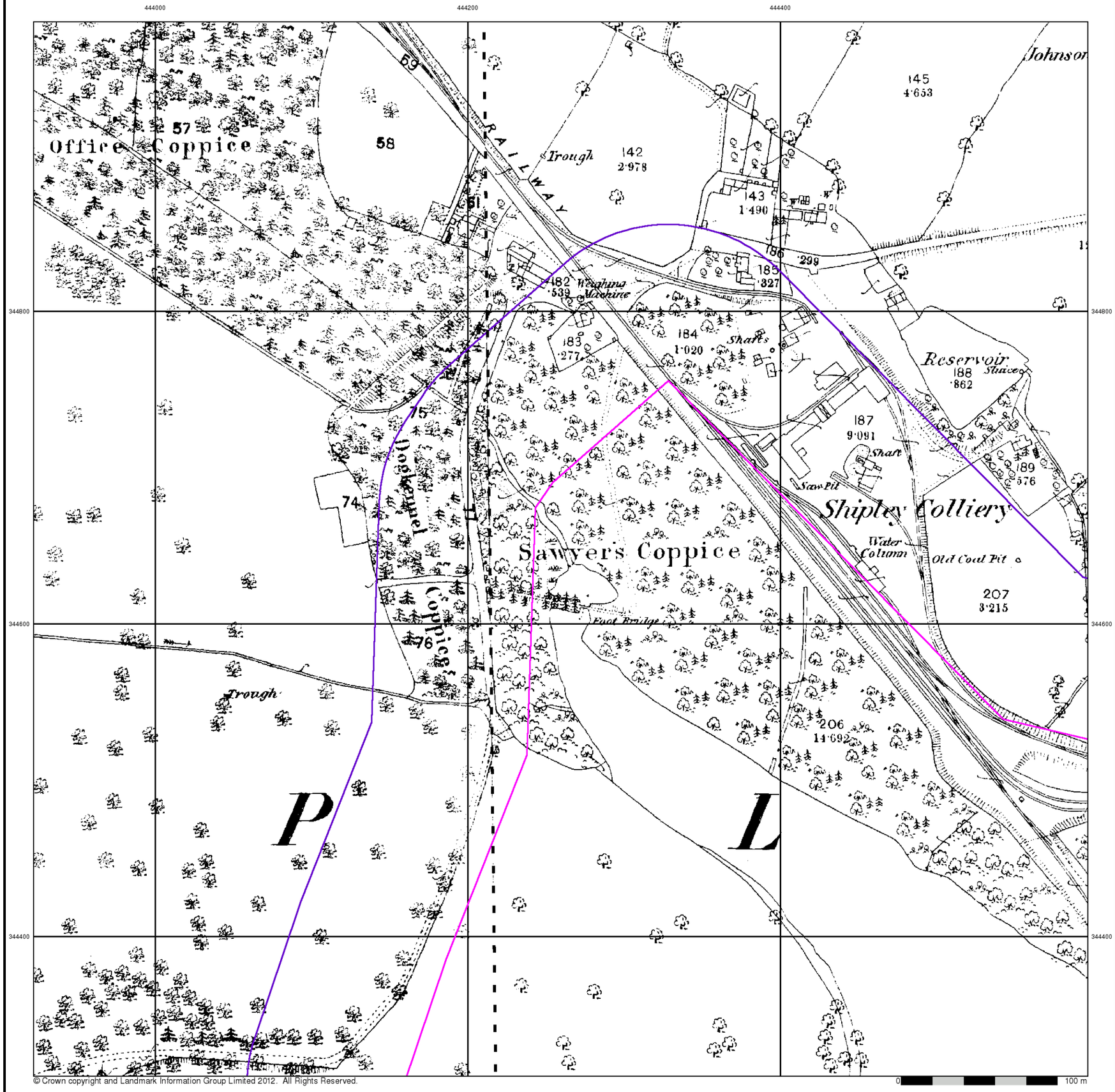

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Derbyshire

Published 1881

Source map scale - 1:2,500

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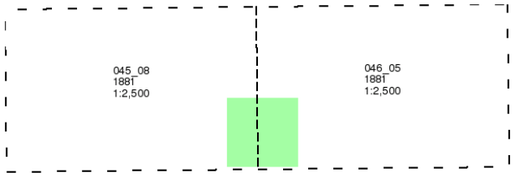
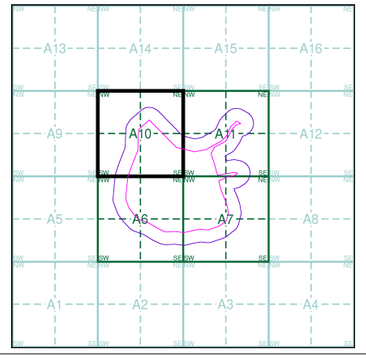
Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

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Site Details

Site at 445100, 344800

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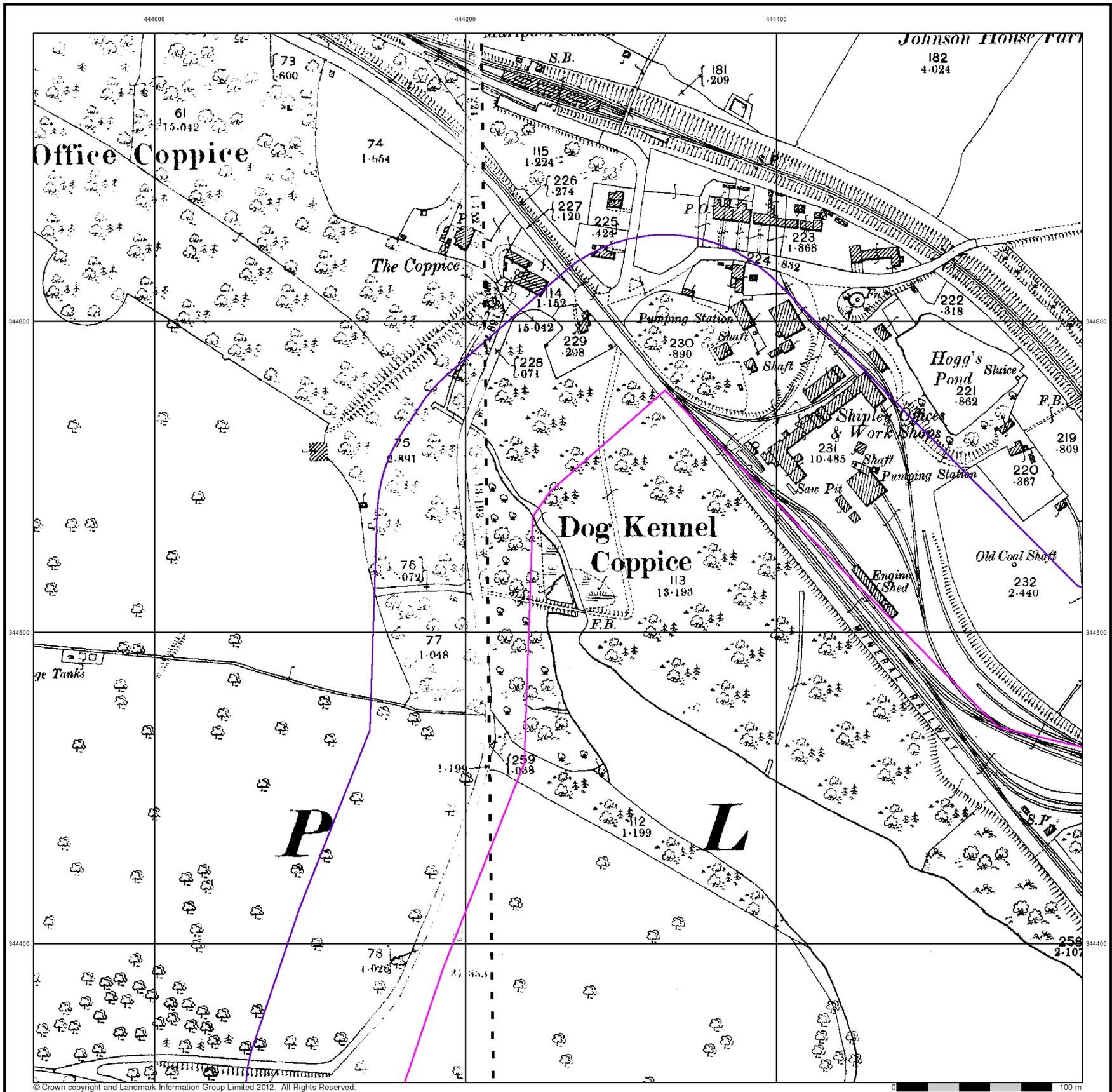

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Derbyshire

Published 1900

Source map scale - 1:2,500

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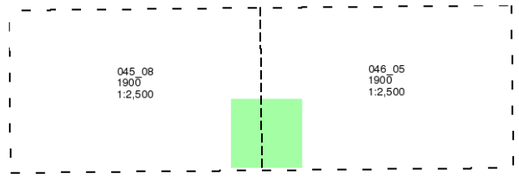
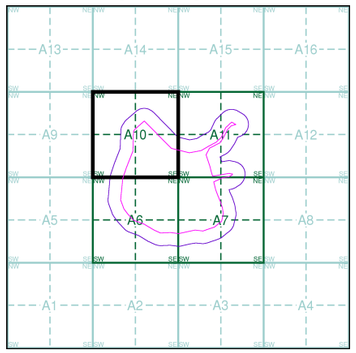
Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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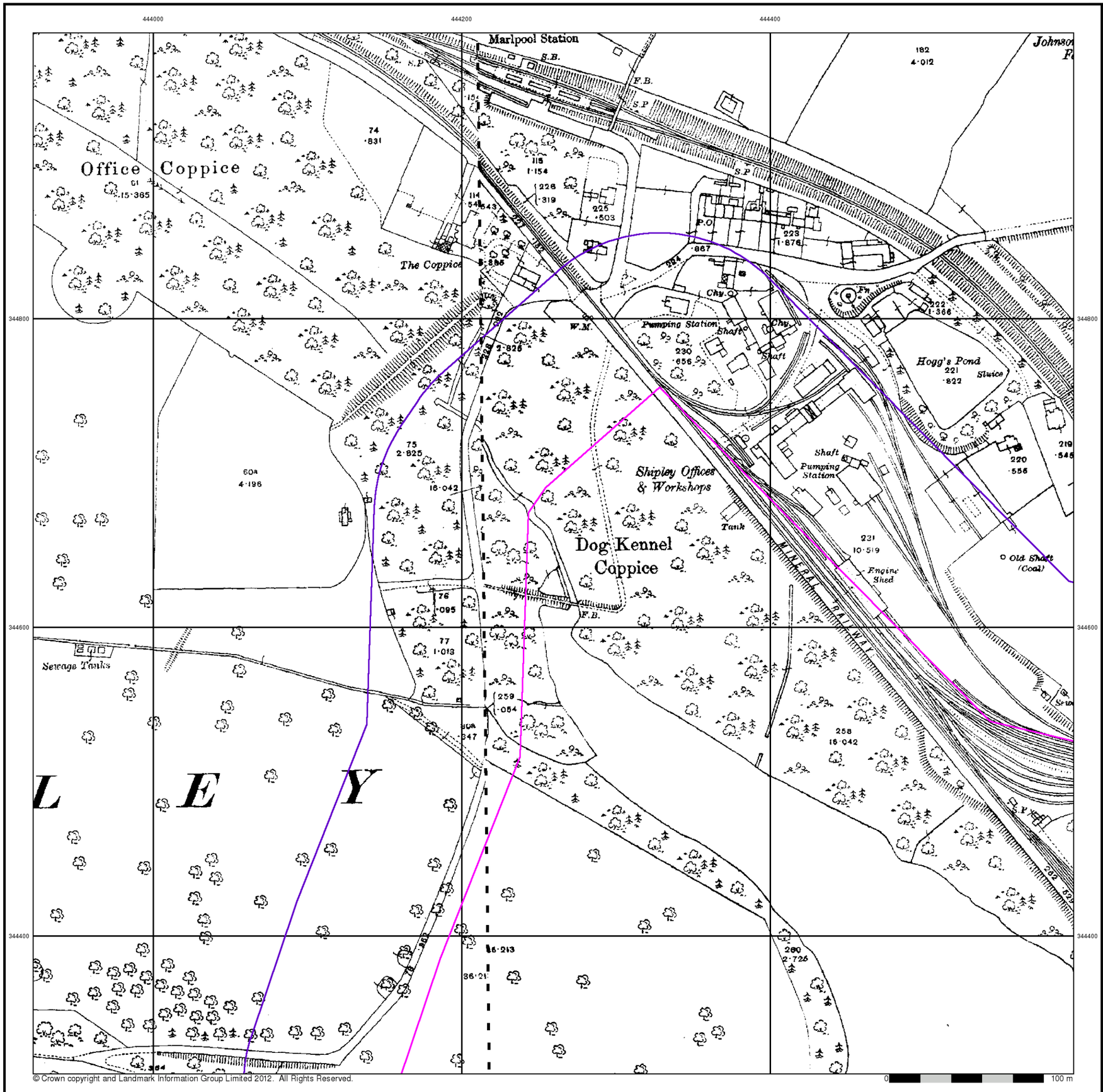

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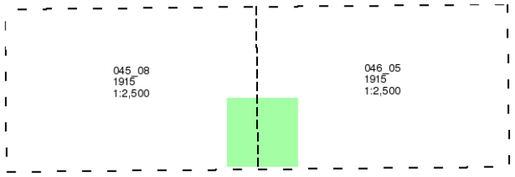
Derbyshire

Published 1915

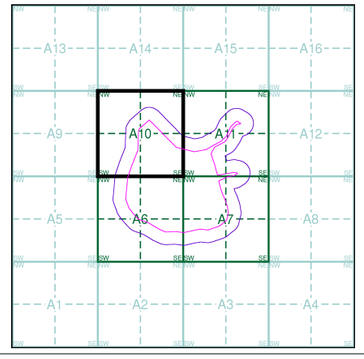
Source map scale - 1:2,500

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



Order Details

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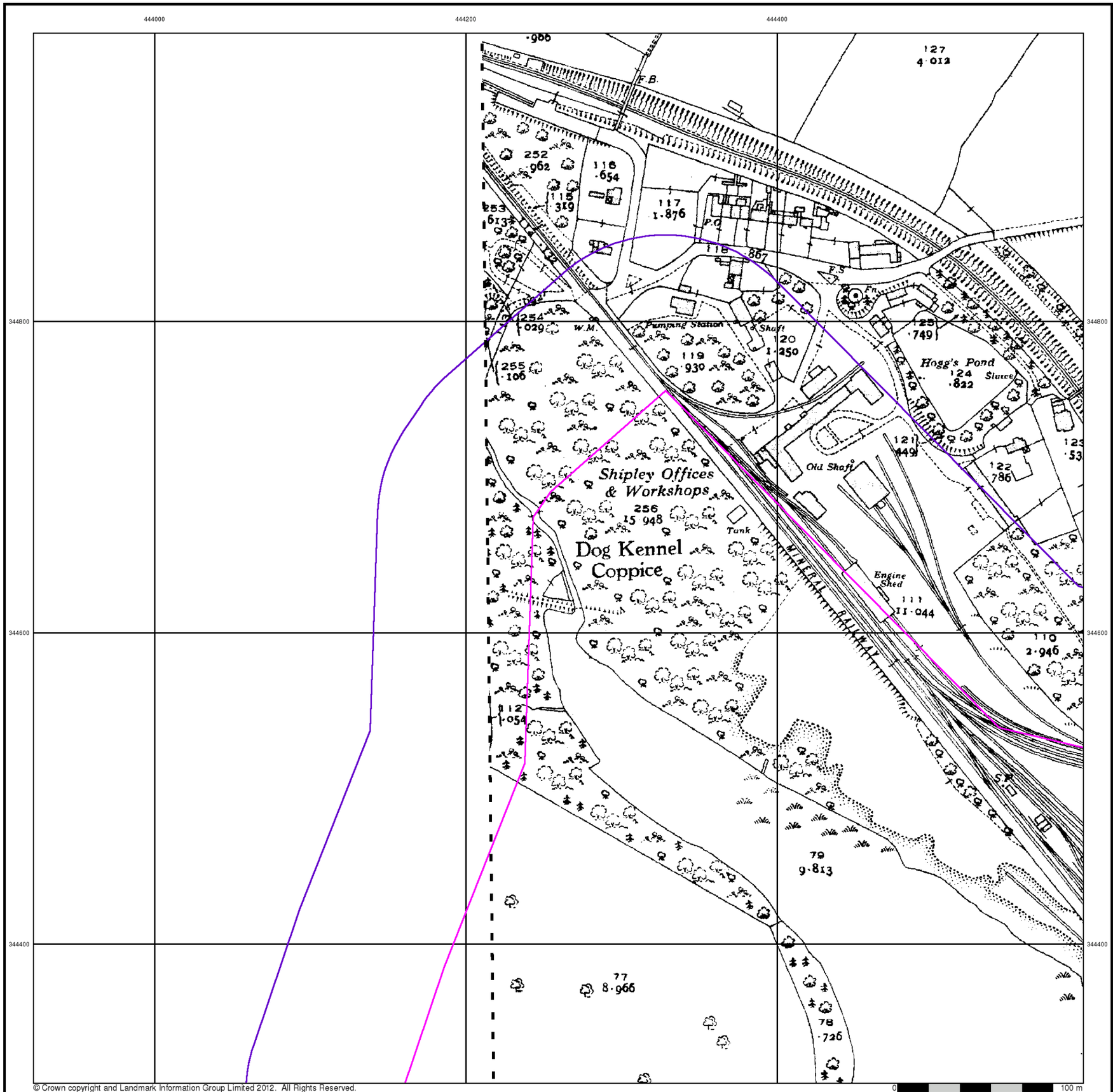

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Derbyshire

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.

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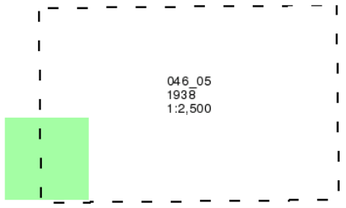
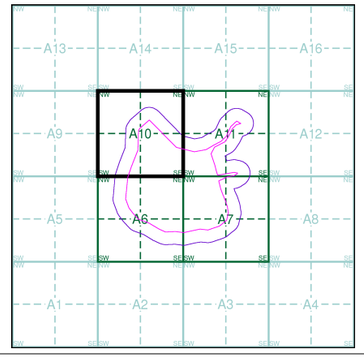


Historical Map - Segment A10



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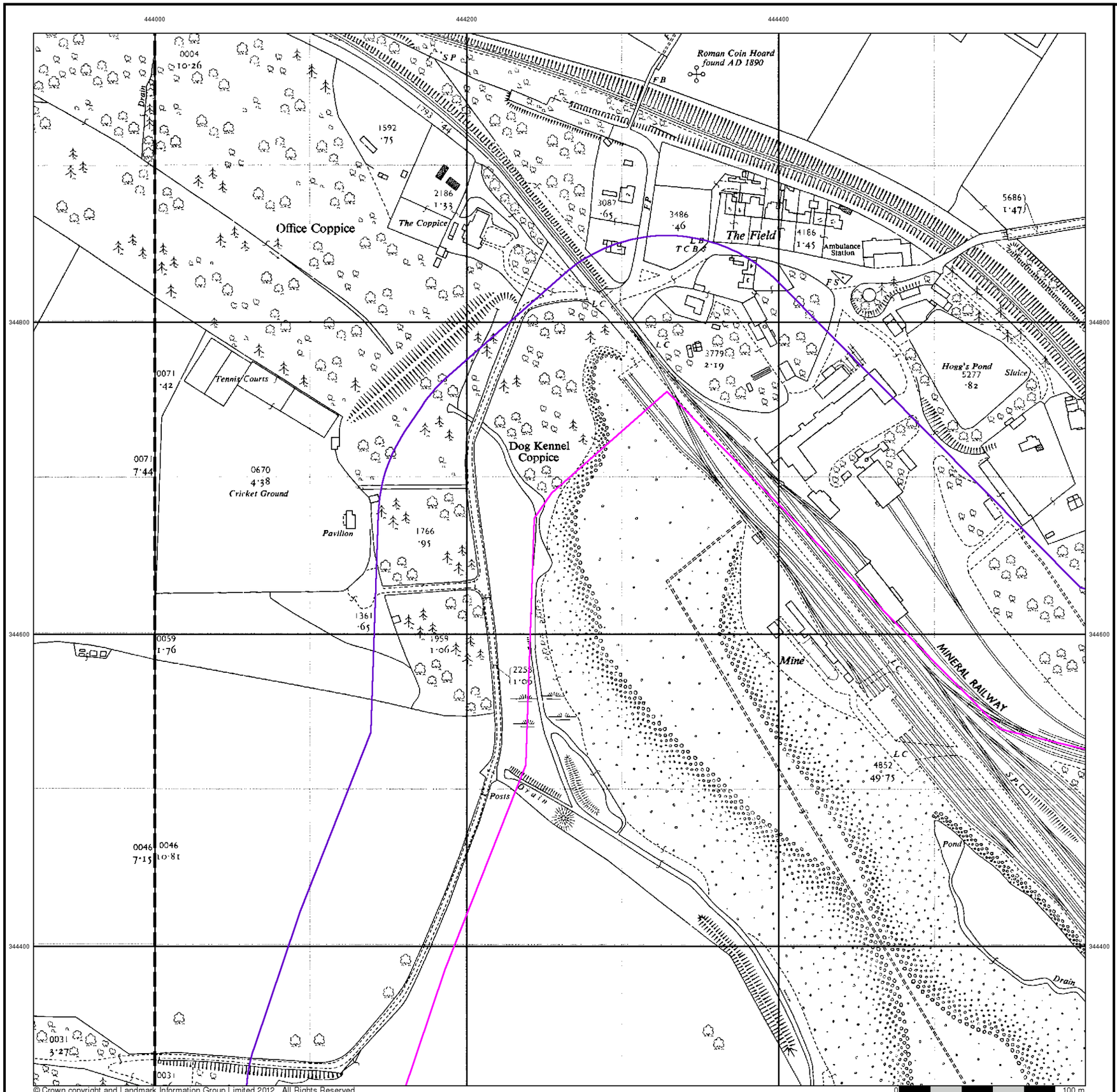

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Ordnance Survey Plan

Published 1962

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.

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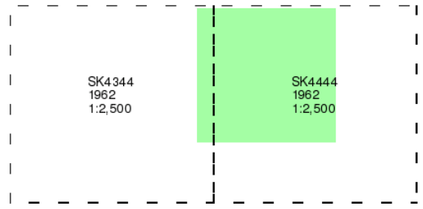
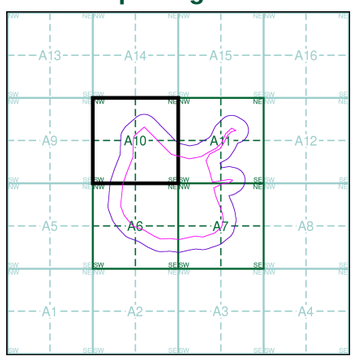


Historical Map - Segment A10



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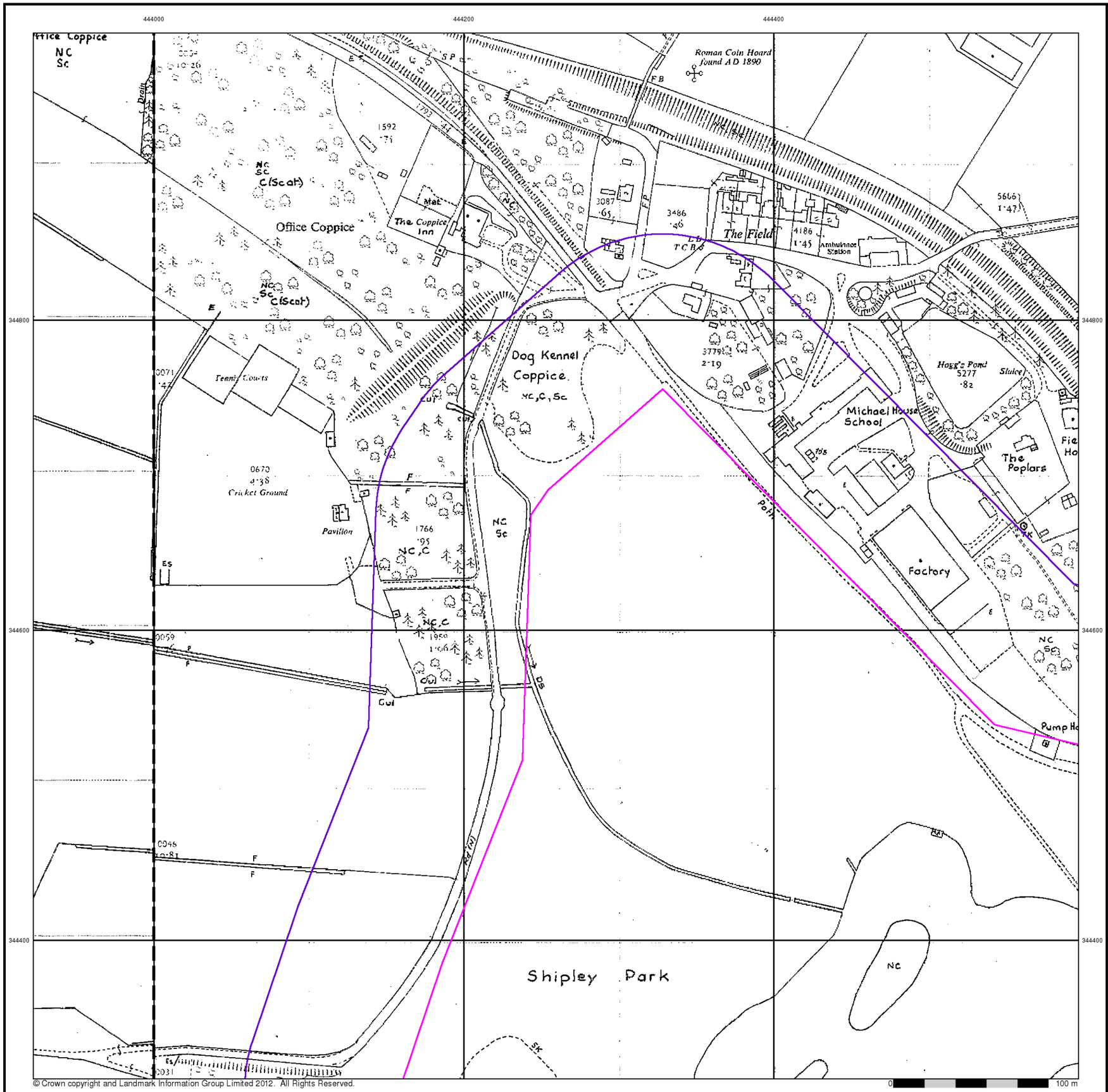

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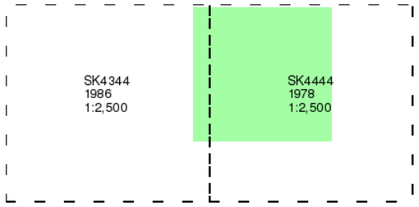
Additional SIMs

Published 1978 - 1986

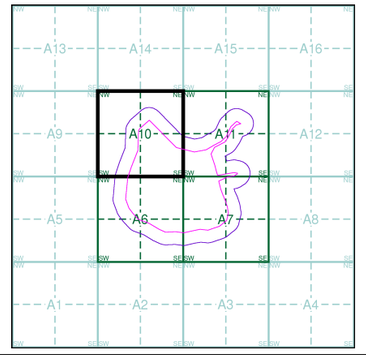
Source map scale - 1:2,500

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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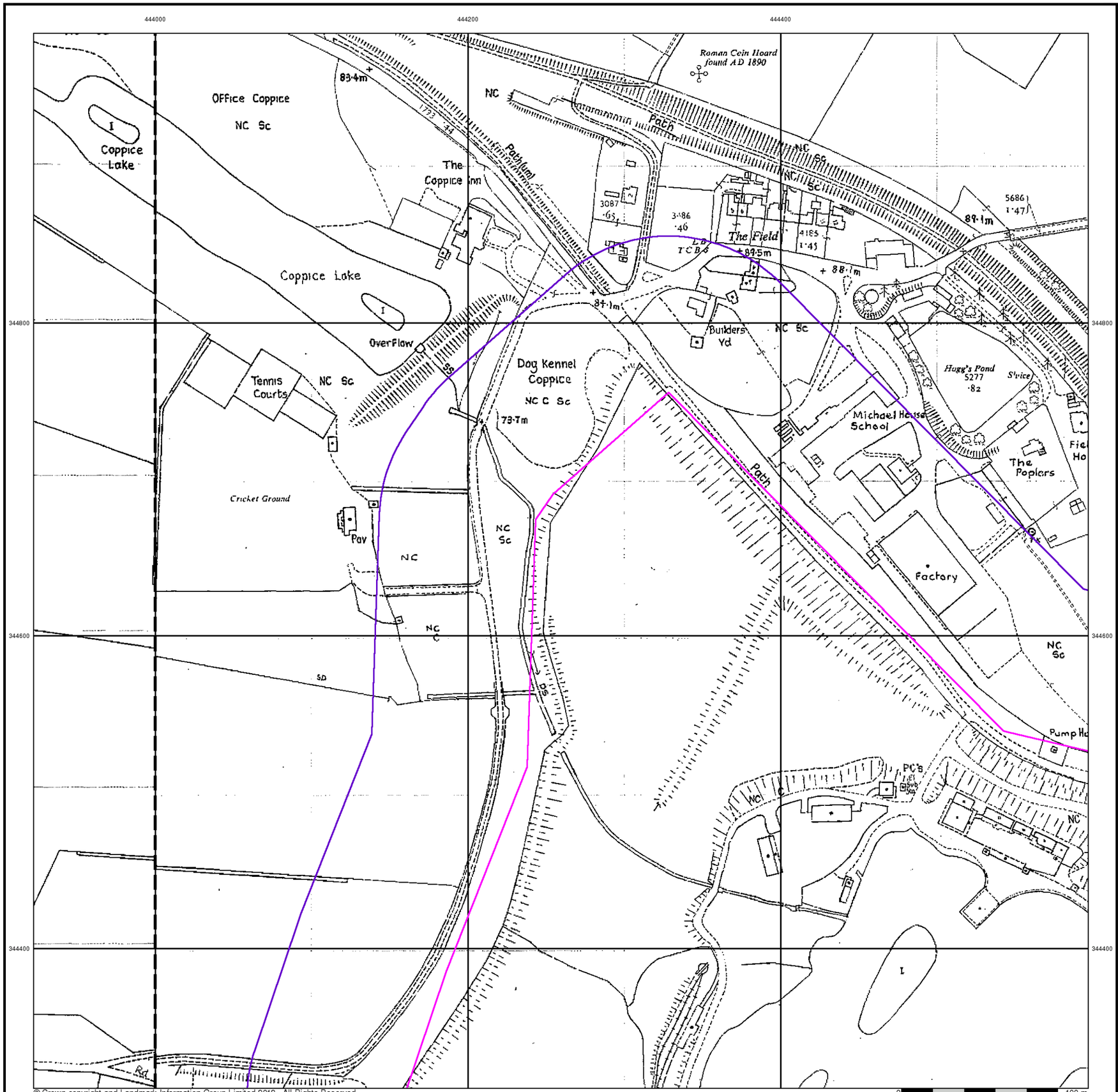

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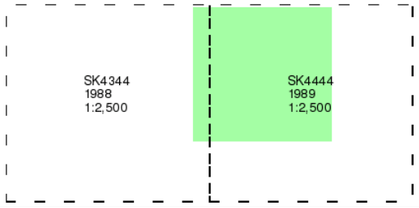
Additional SIMs

Published 1988 - 1989

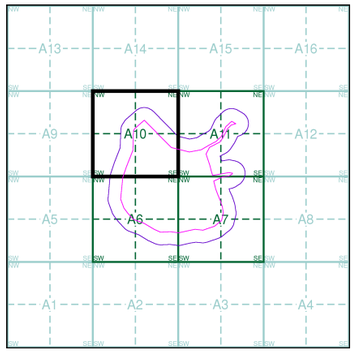
Source map scale - 1:2,500

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:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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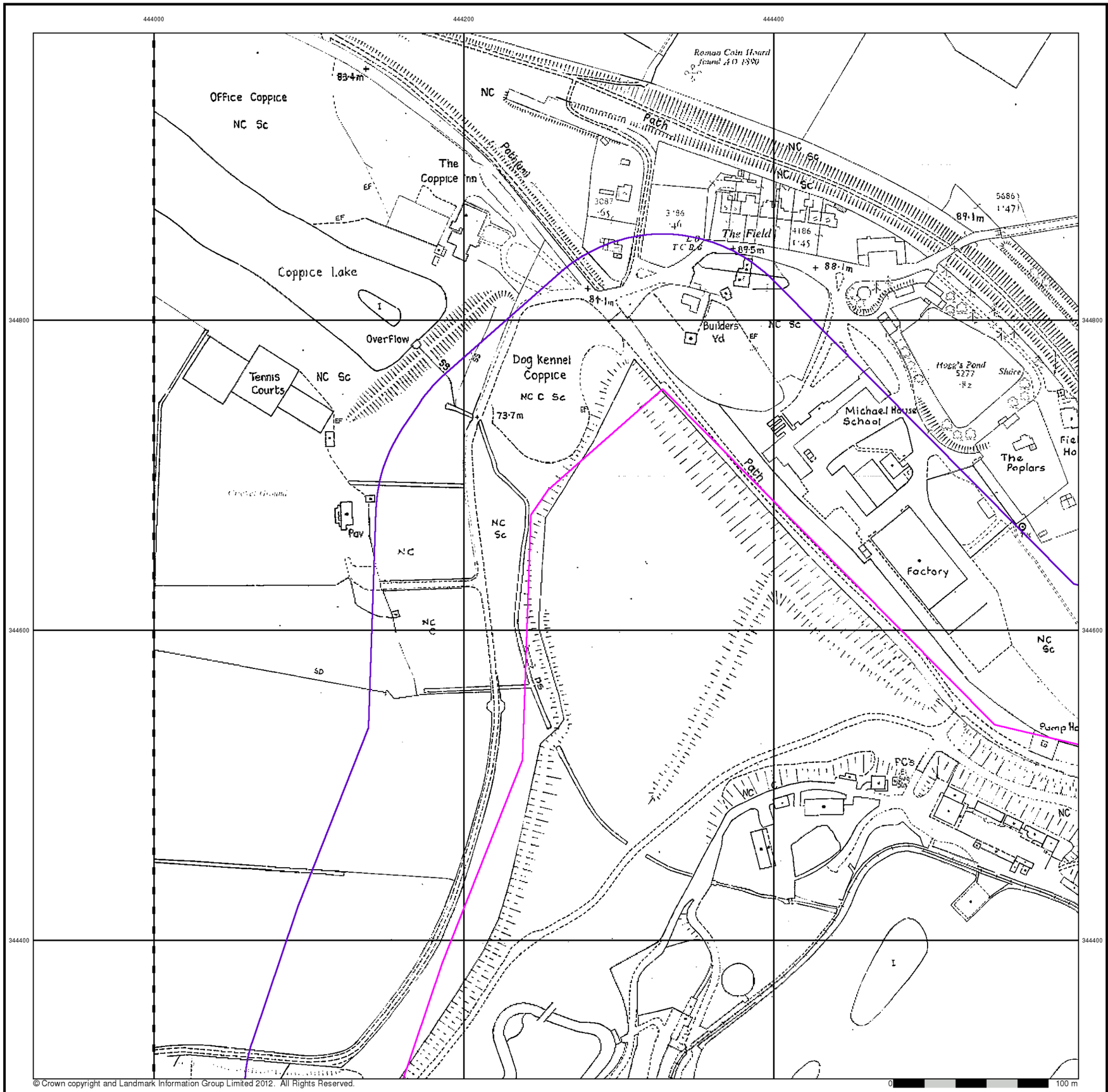
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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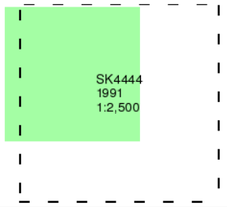
Additional SIMs

Published 1991

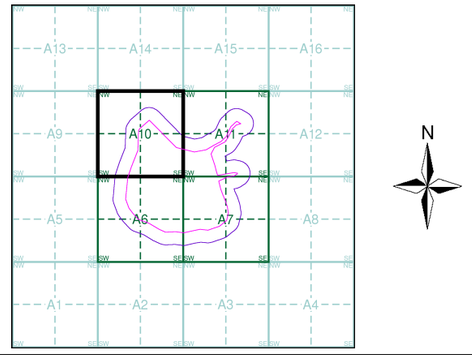
Source map scale - 1:2,500

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:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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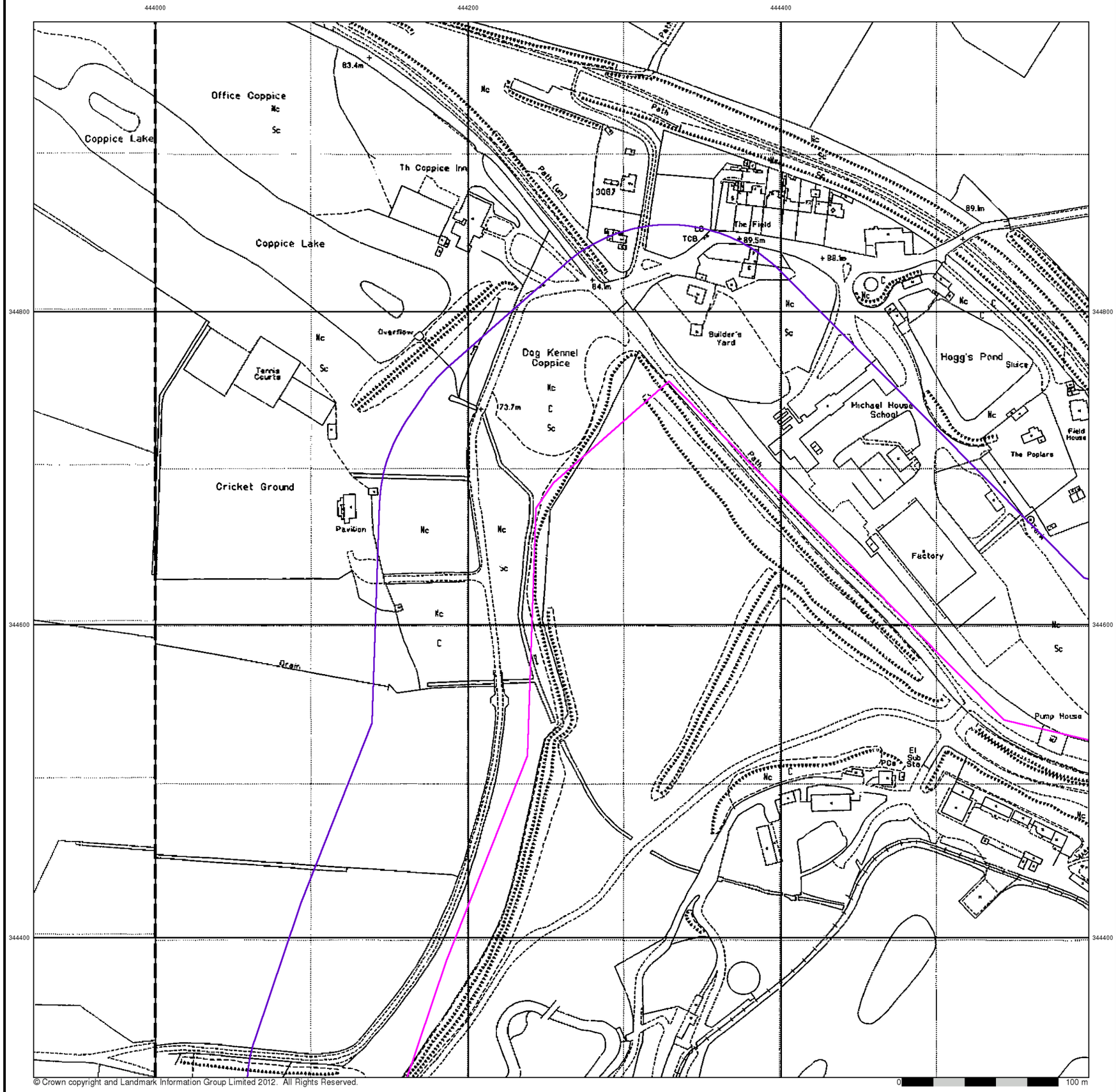

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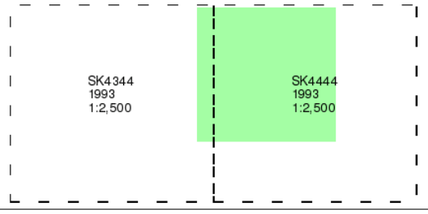
Large-Scale National Grid Data

Published 1993

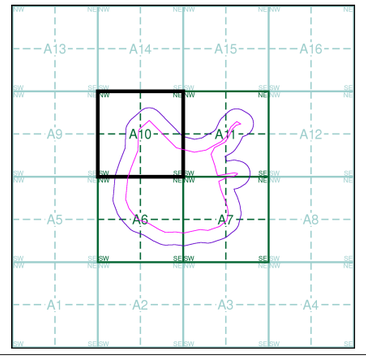
Source map scale - 1:2,500

'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:	41021474_1_1
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National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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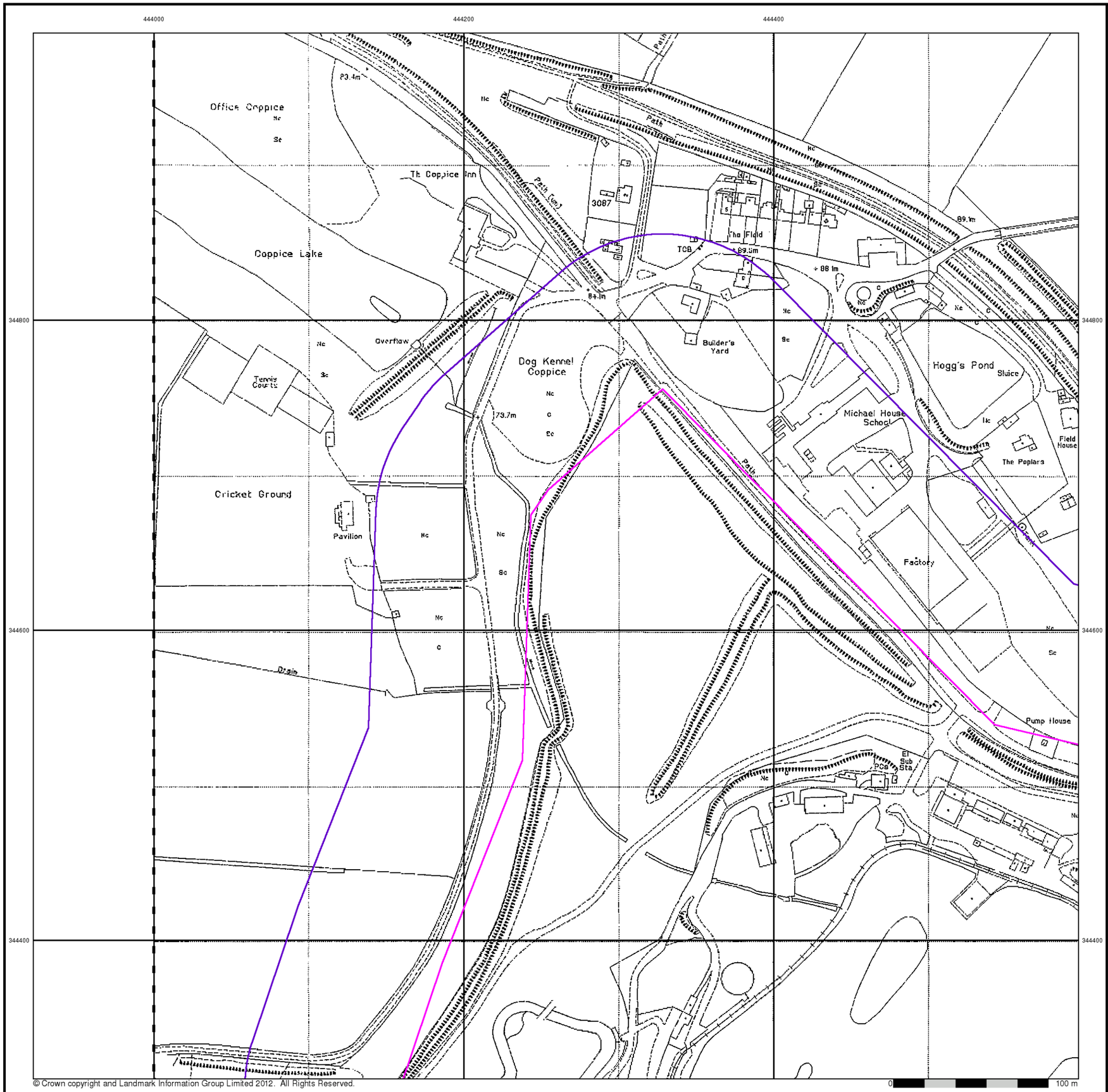

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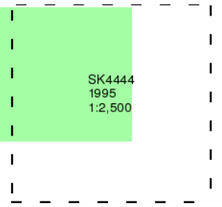
Large-Scale National Grid Data

Published 1995

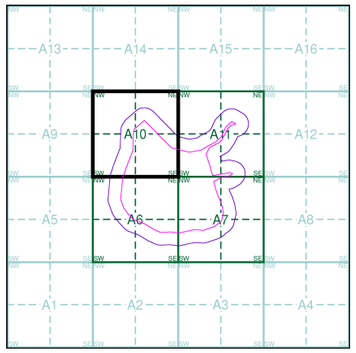
Source map scale - 1:2,500

'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



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National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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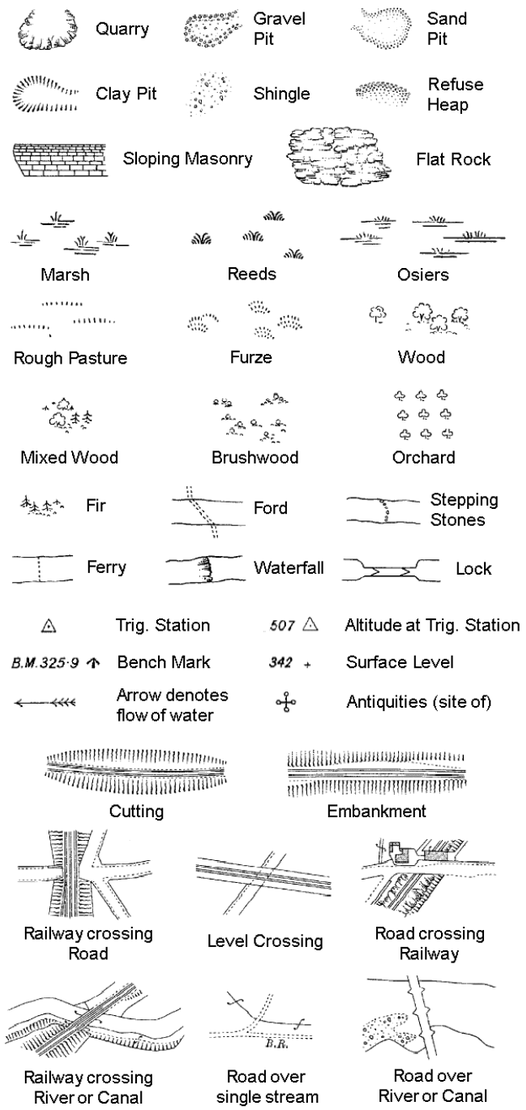
Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)

County & Civil Parish Boundary

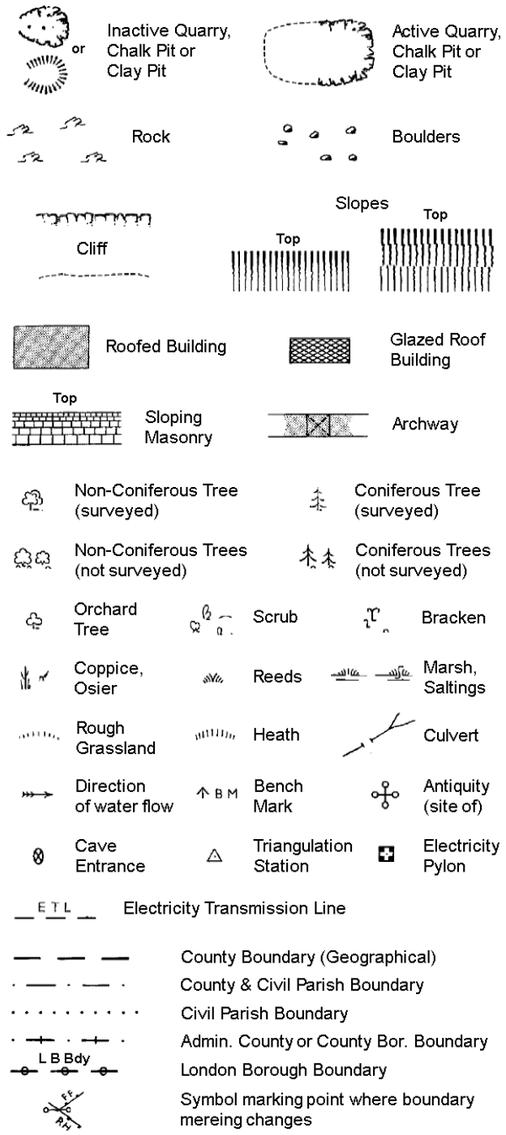
Administrative County & Civil Parish Boundary

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

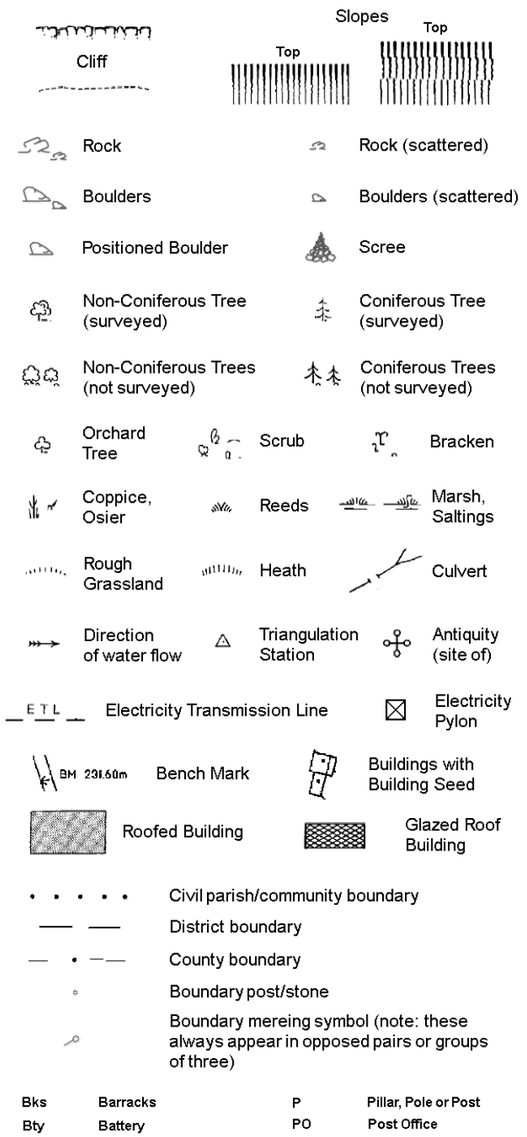
Admin. County or County Bor. Boundary

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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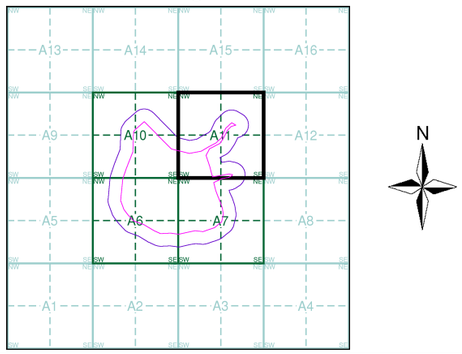
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1881	2
Derbyshire	1:2,500	1900	3
Derbyshire	1:2,500	1915	4
Derbyshire	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1962	6
Additional SIMs	1:2,500	1978 - 1990	7
Additional SIMs	1:2,500	1989	8
Additional SIMs	1:2,500	1991	9
Large-Scale National Grid Data	1:2,500	1993	10
Large-Scale National Grid Data	1:1,250	1993	11
Large-Scale National Grid Data	1:2,500	1995	12

Historical Map - Segment A11



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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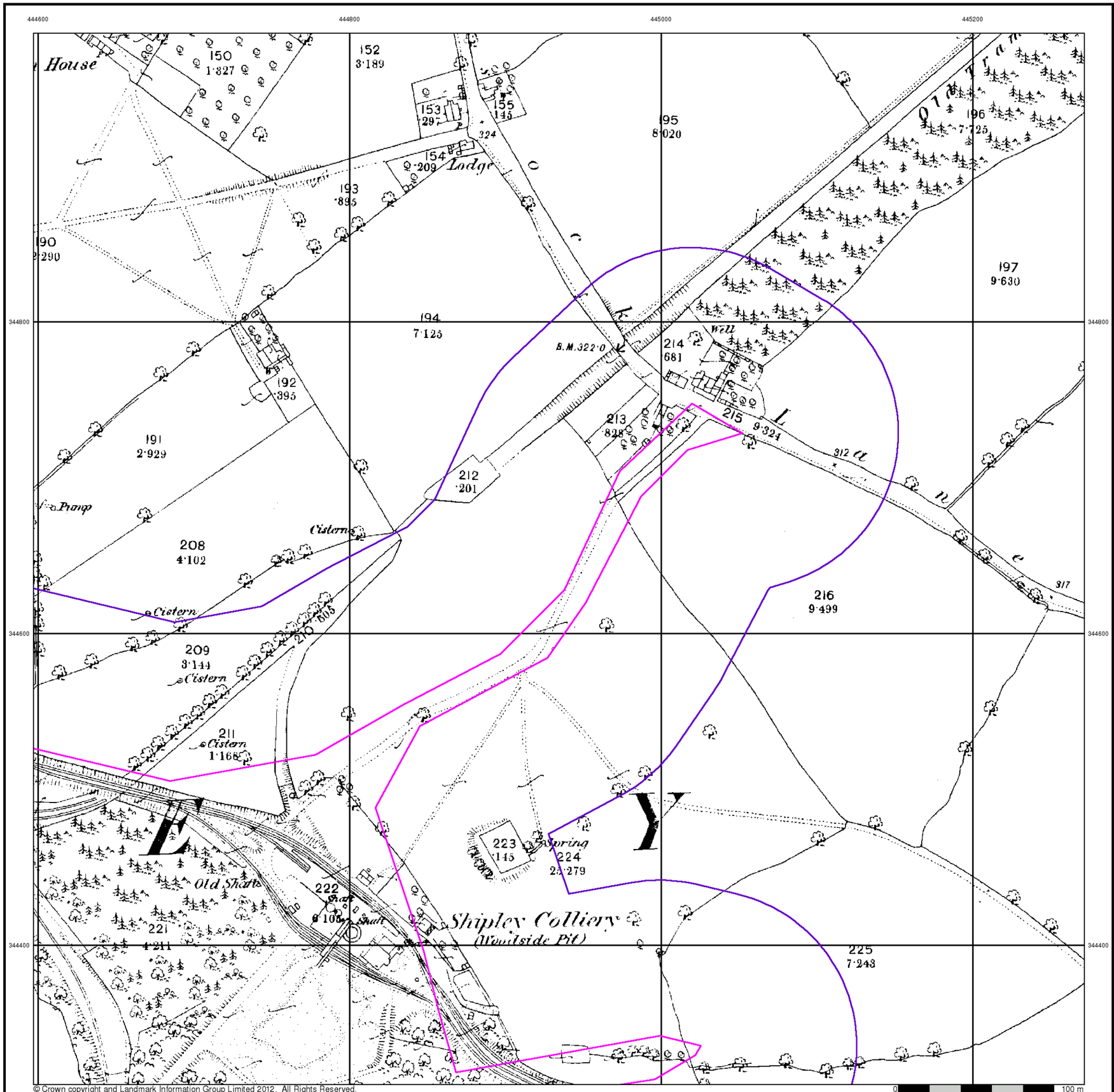

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Derbyshire

Published 1881

Source map scale - 1:2,500

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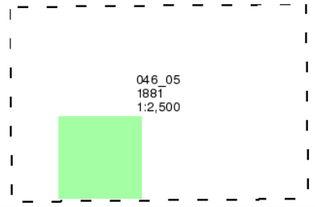
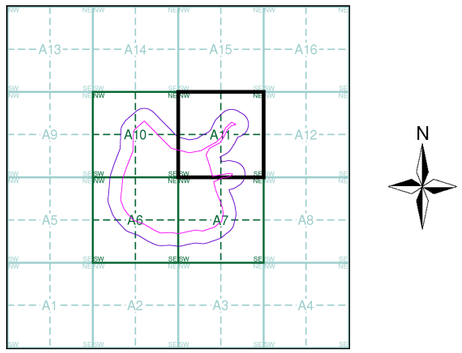
Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
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Slice:	A
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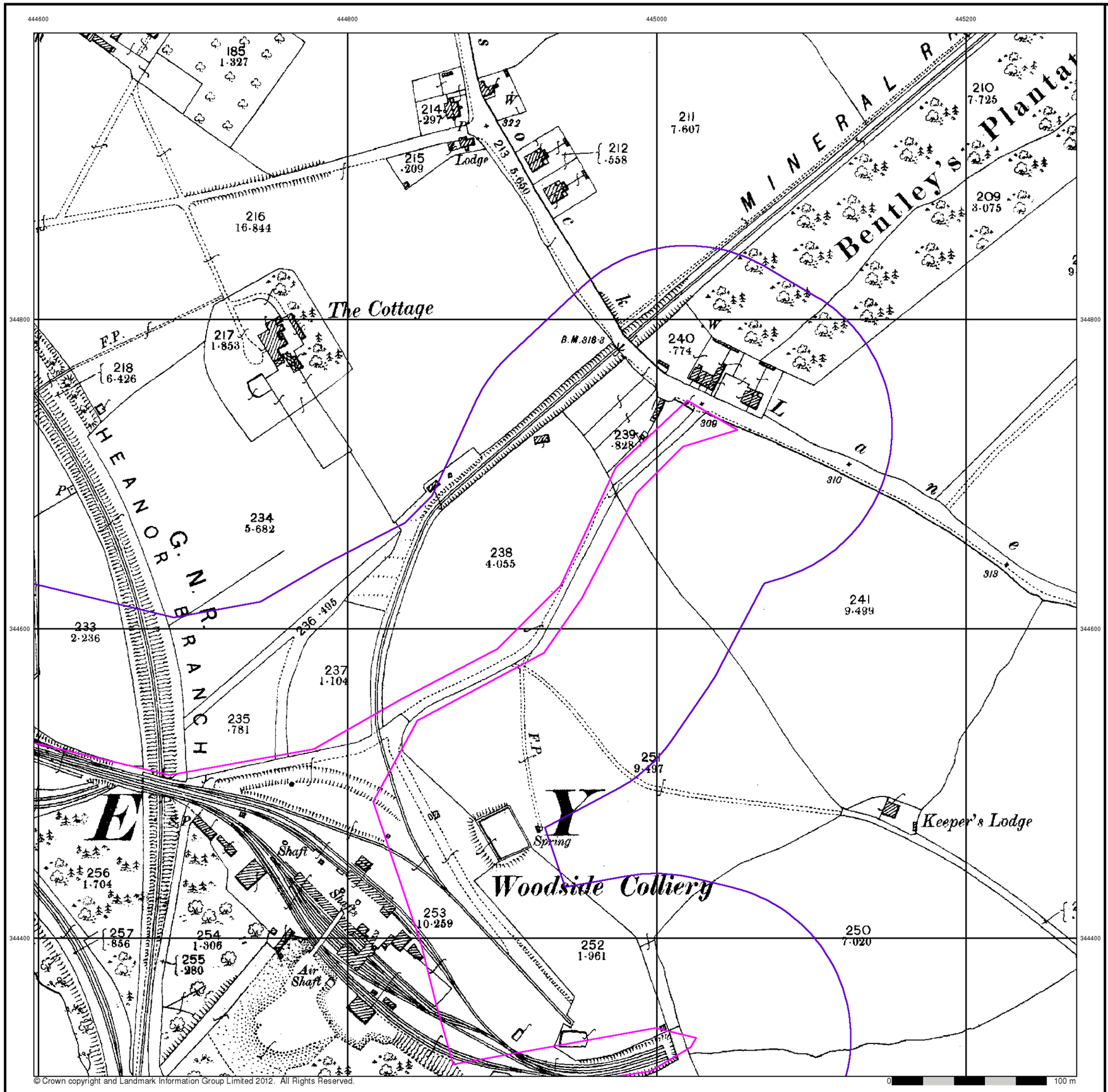

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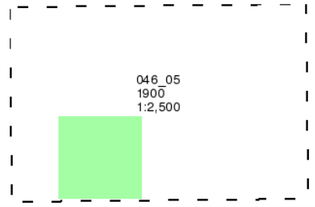
Derbyshire

Published 1900

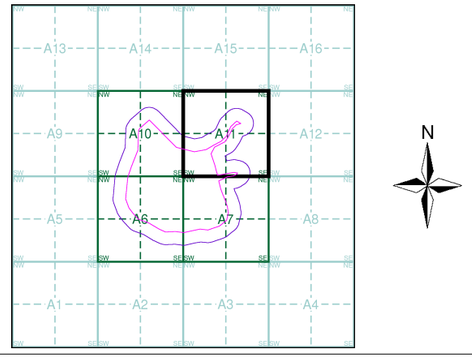
Source map scale - 1:2,500

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 A11



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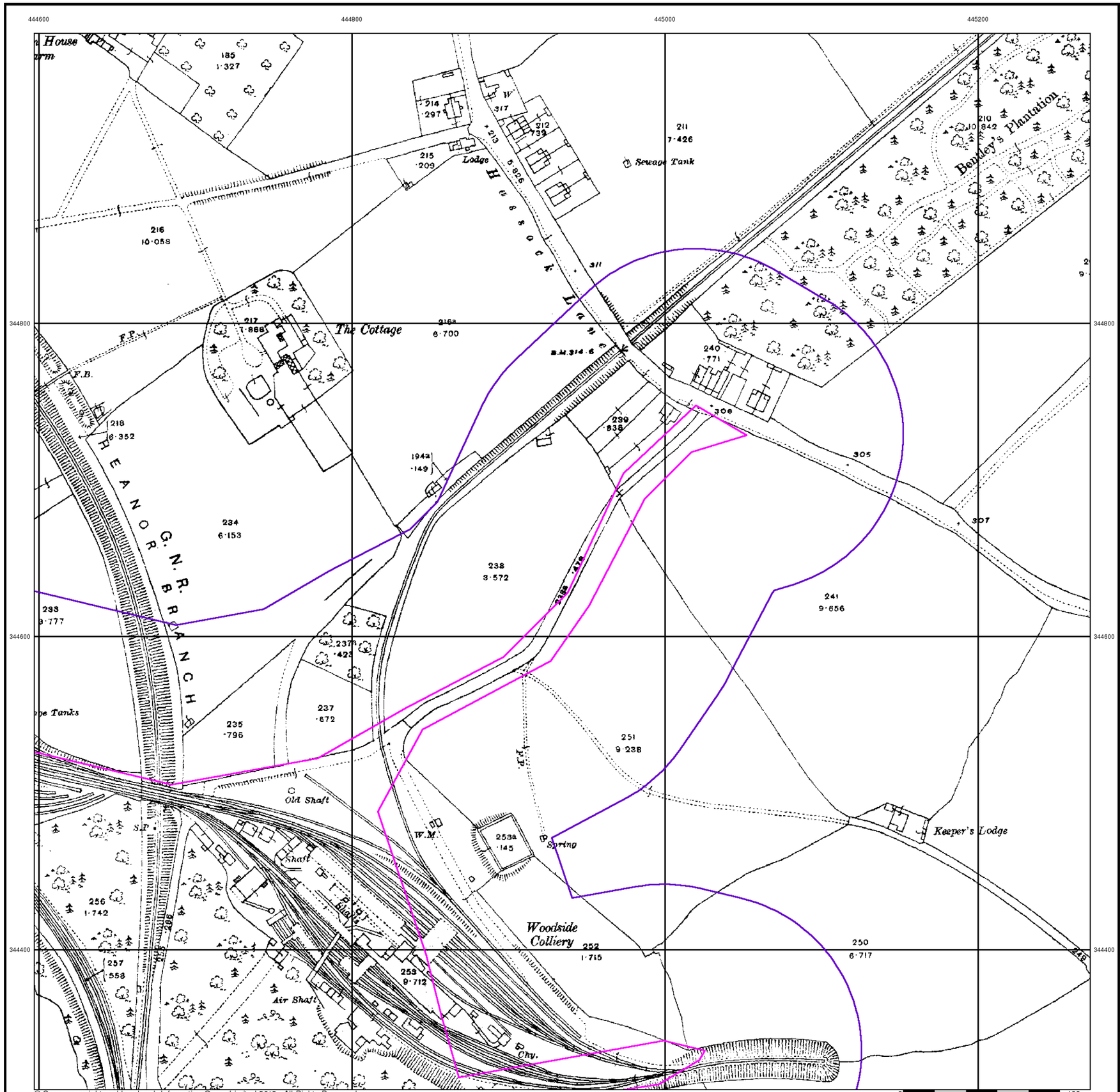

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Derbyshire

Published 1915

Source map scale - 1:2,500

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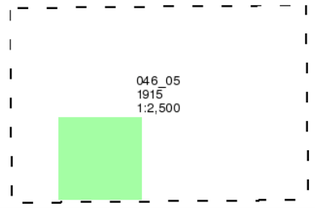
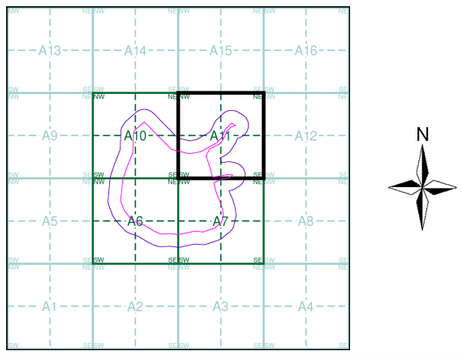
Map Name(s) and Date(s)



Historical Map - Segment A11



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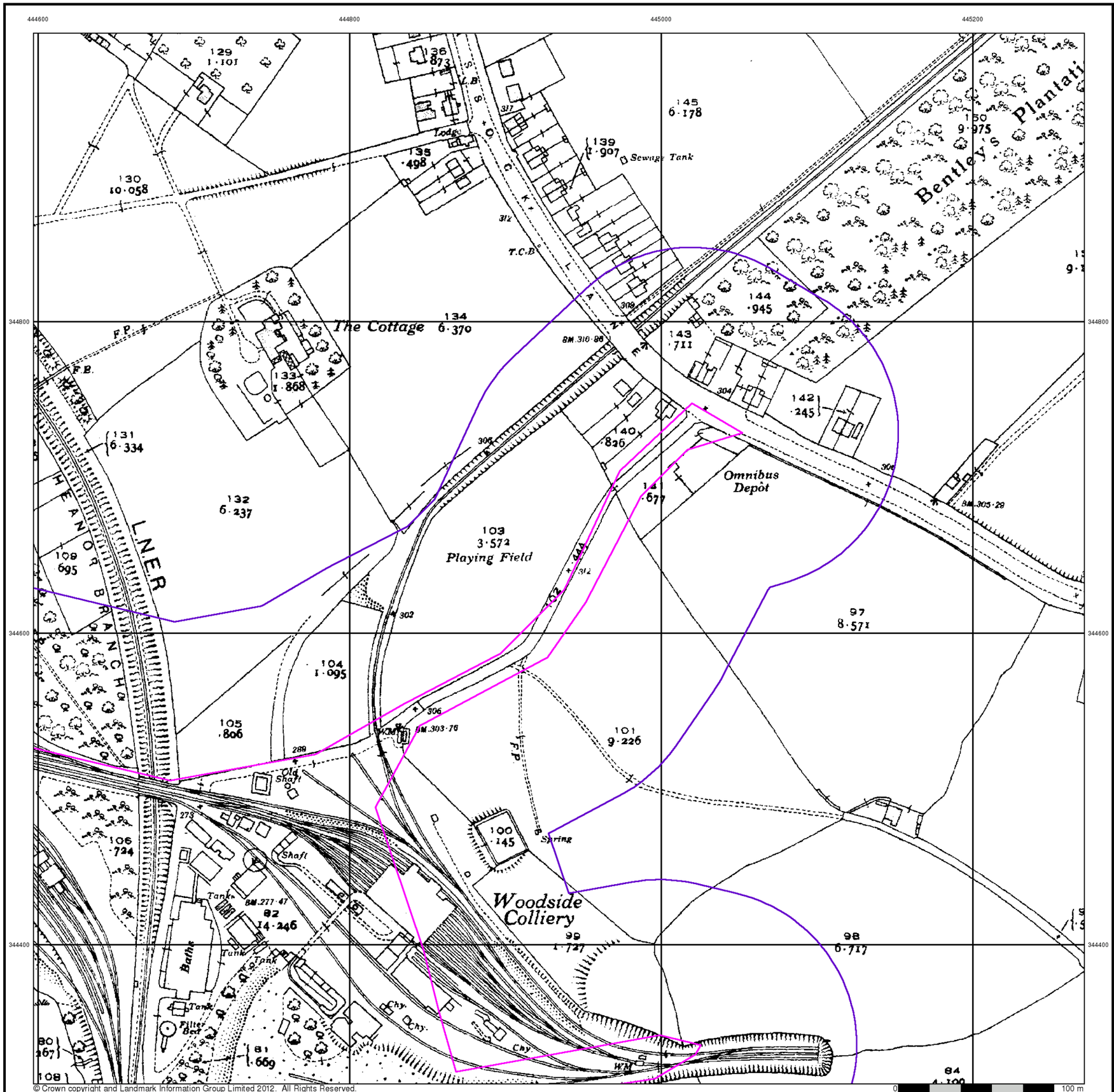

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Derbyshire

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.

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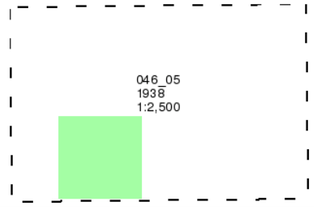
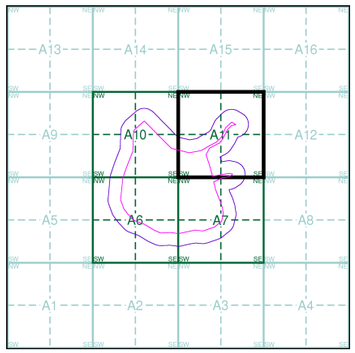


Historical Map - Segment A11



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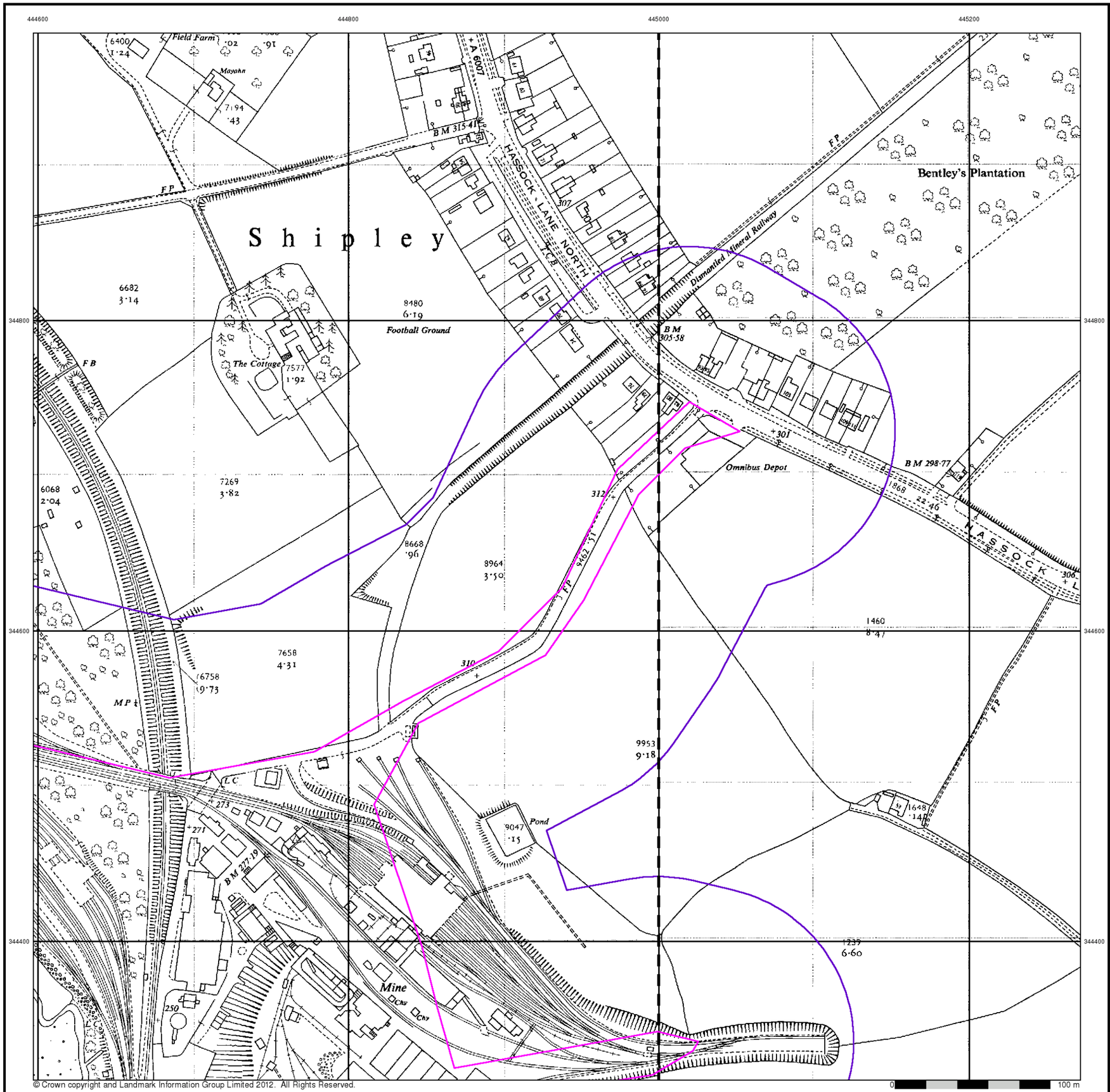

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Ordnance Survey Plan

Published 1962

Source map scale - 1:2,500

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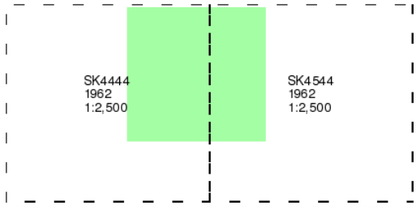
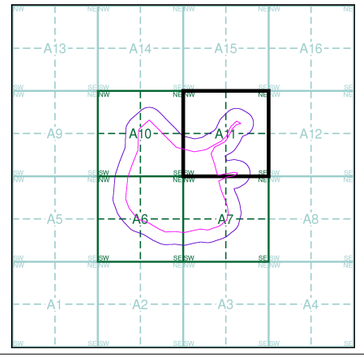


Historical Map - Segment A11



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444600 444800 445000 445200

344800 344600 344400

Shipley

Honey Lodge

FP

HASSOCK LANE NORTH

Dismantled Mineral Railway

Bentley's Plantation

Football Ground

The Cottage

FB

A6037

PIT LANE

31·6m

B M 90·93m

HASSOCK

Woodside Pumping Shaft

El Sub Sta

Ranger Post

NC

6682 3·14

8480 6·19

7577 1·92

6068 2·04

7269 3·82

8668 ·96

8964 1·50

7658 4·31

9953 9·18

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0 100 m

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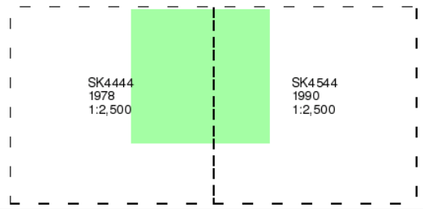
Additional SIMs

Published 1978 - 1990

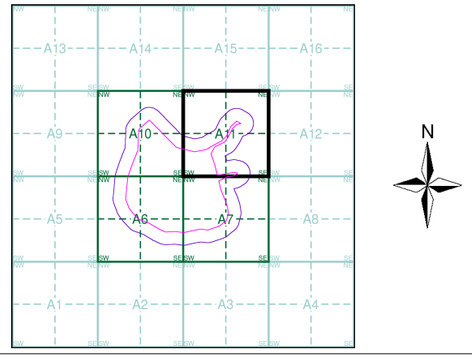
Source map scale - 1:2,500

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 A11



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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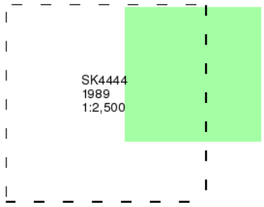
Additional SIMs

Published 1989

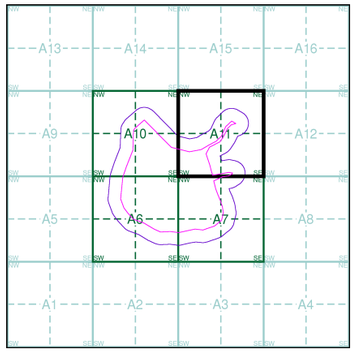
Source map scale - 1:2,500

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 A11



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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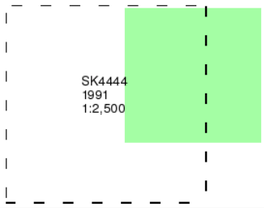
Additional SIMs

Published 1991

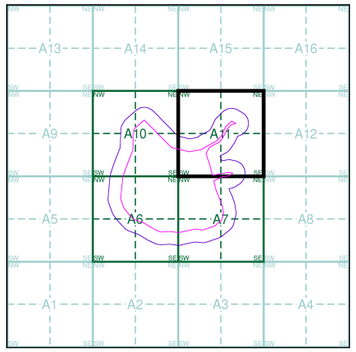
Source map scale - 1:2,500

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 A11



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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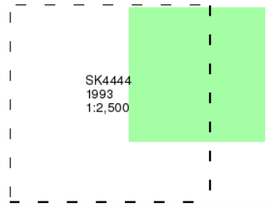
Large-Scale National Grid Data

Published 1993

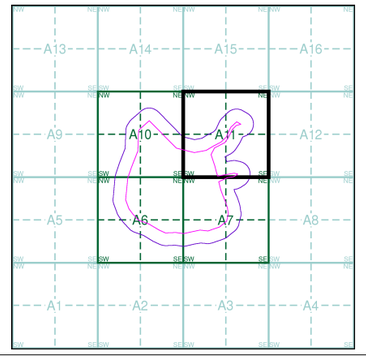
Source map scale - 1:2,500

'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:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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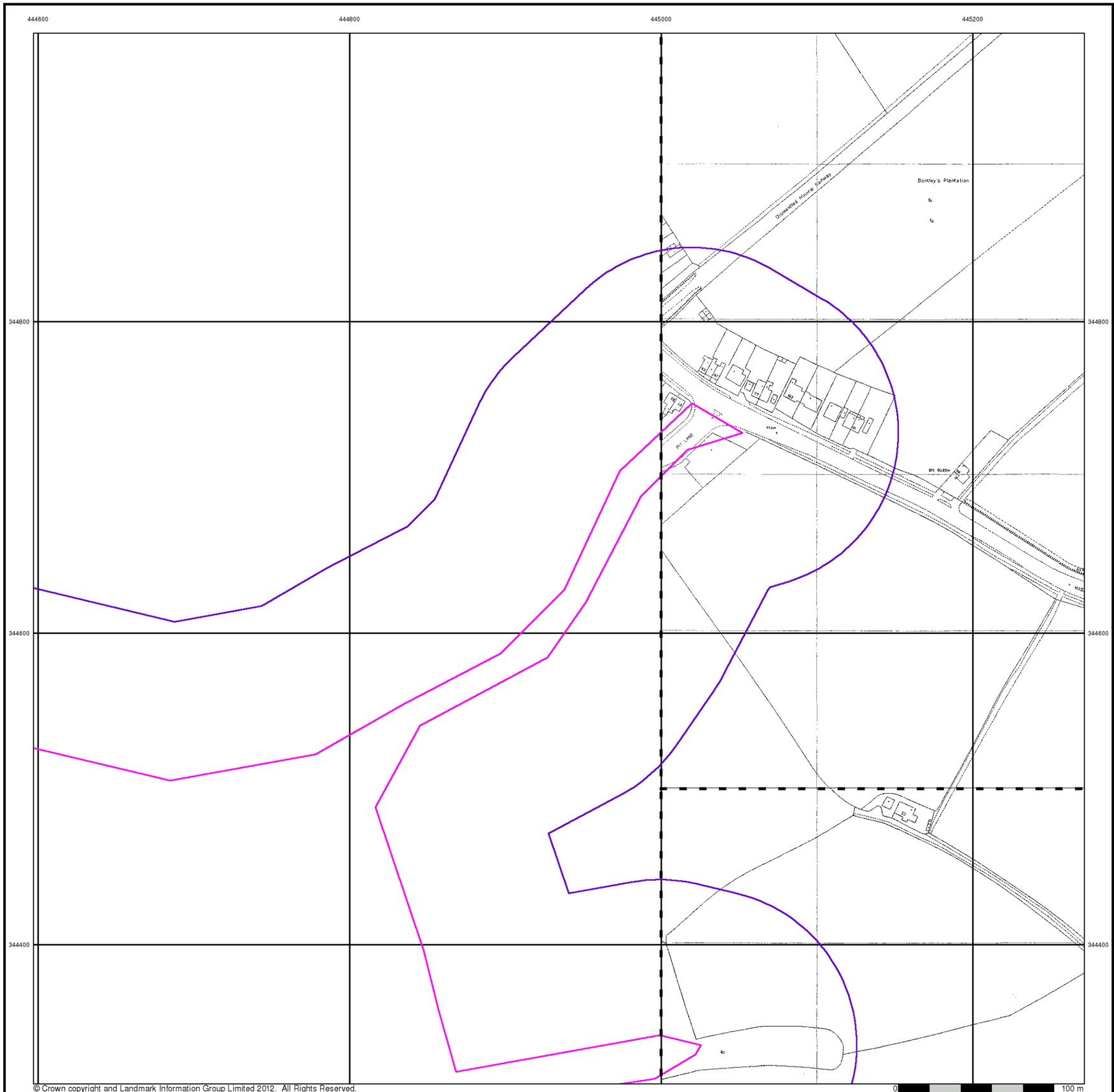

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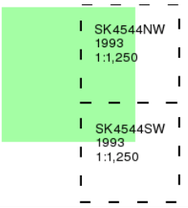
Large-Scale National Grid Data

Published 1993

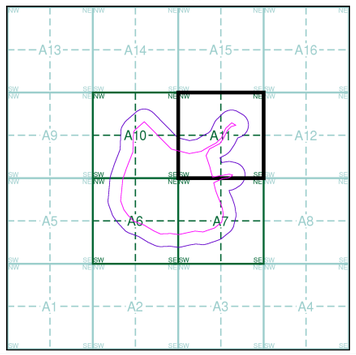
Source map scale - 1:1,250

'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 A11



Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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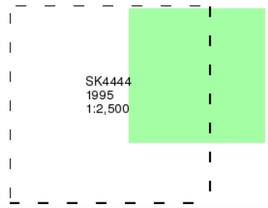
Large-Scale National Grid Data

Published 1995

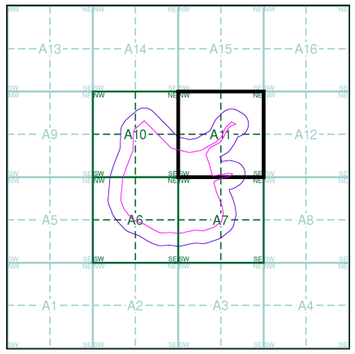
Source map scale - 1:2,500

'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:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	100

Site Details

Site at 445100, 344800

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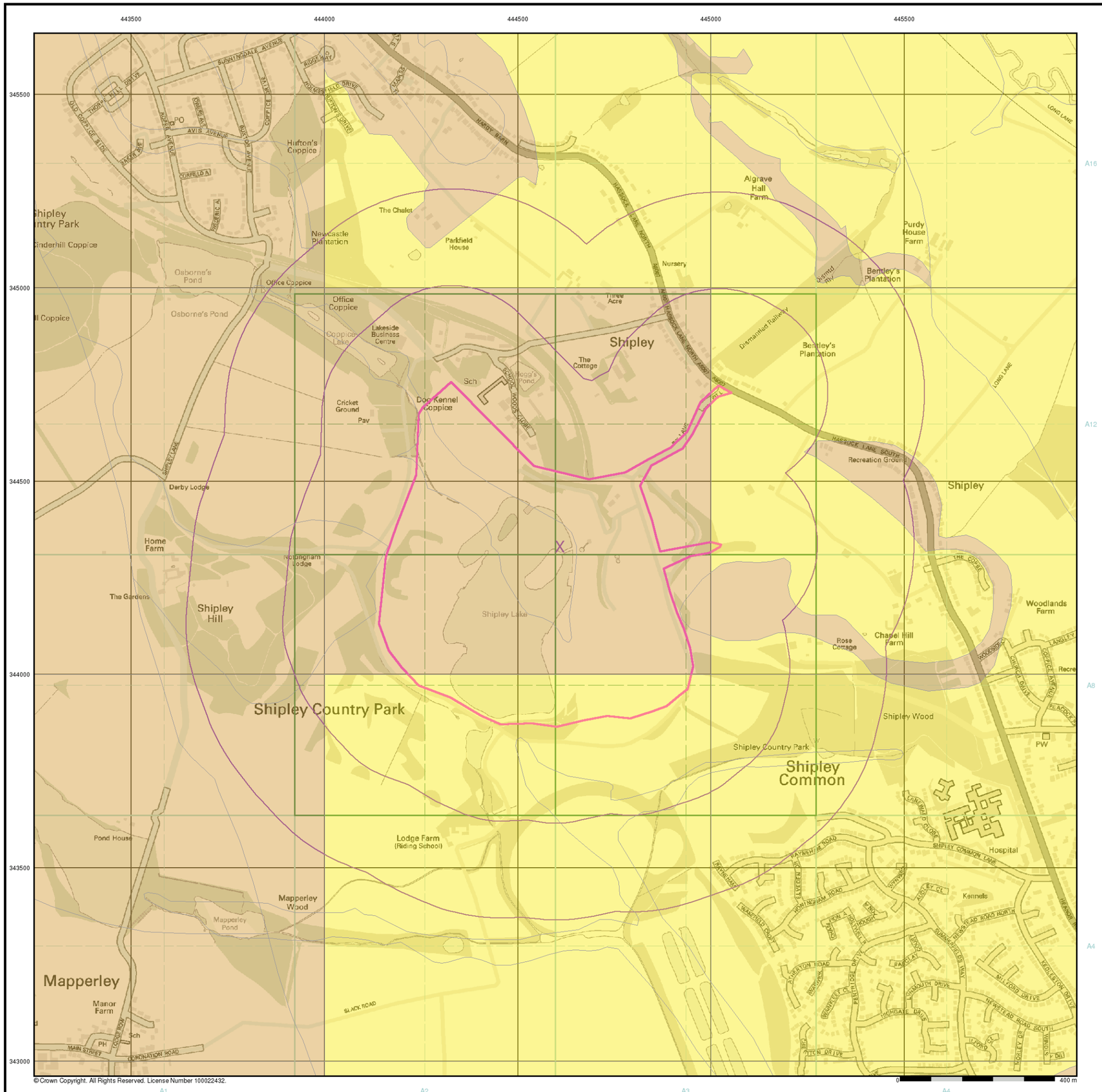


Envirocheck®

General

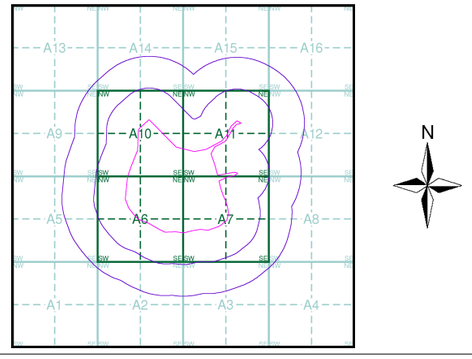
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

Site at 445100, 344800

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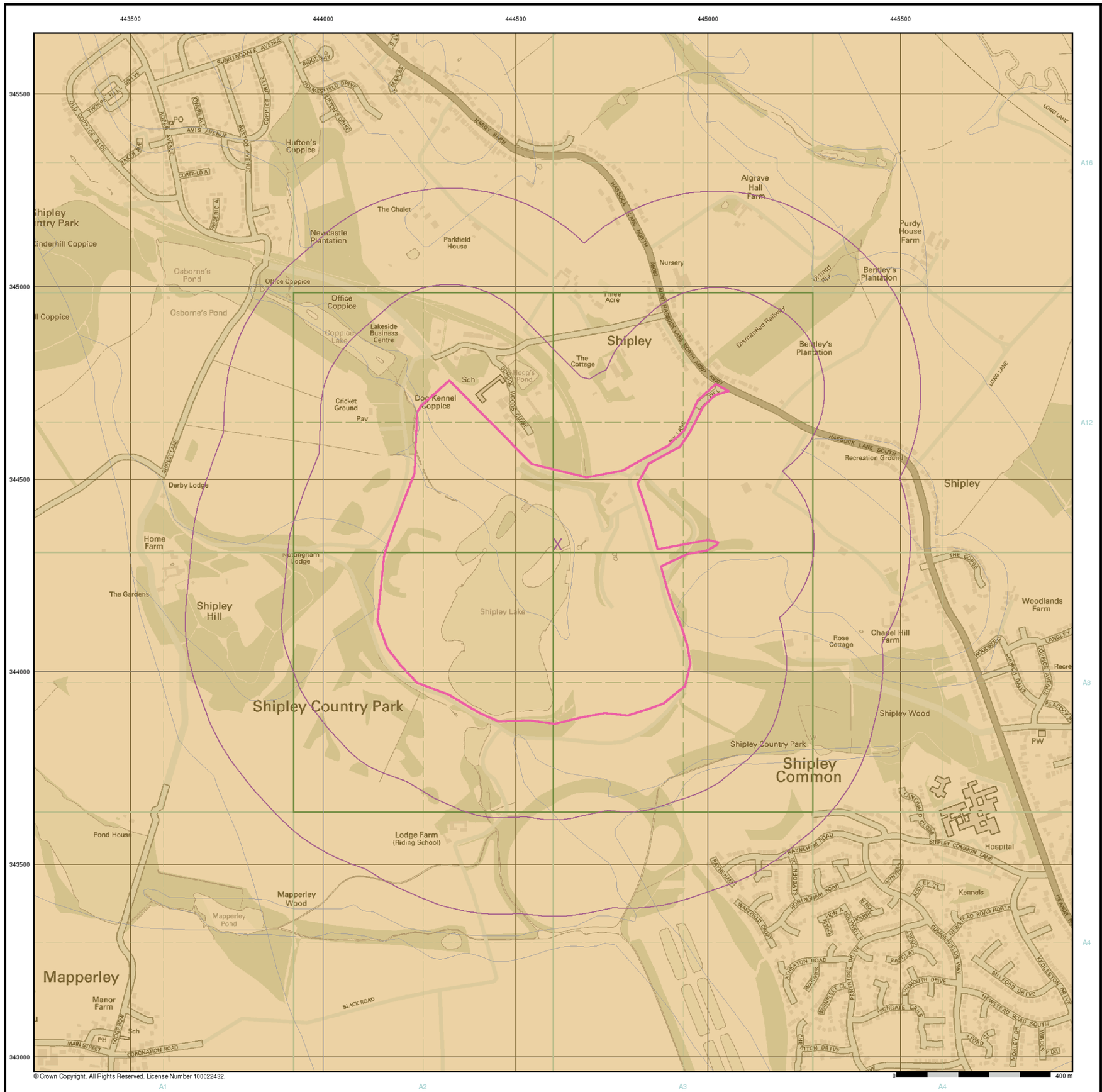
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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General

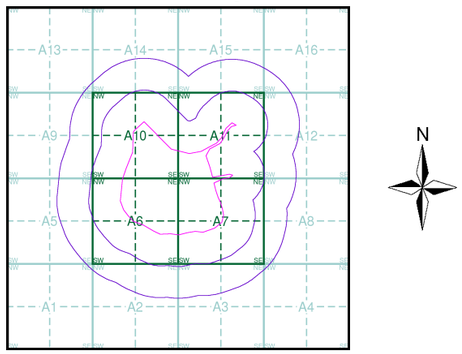
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

Site at 445100, 344800

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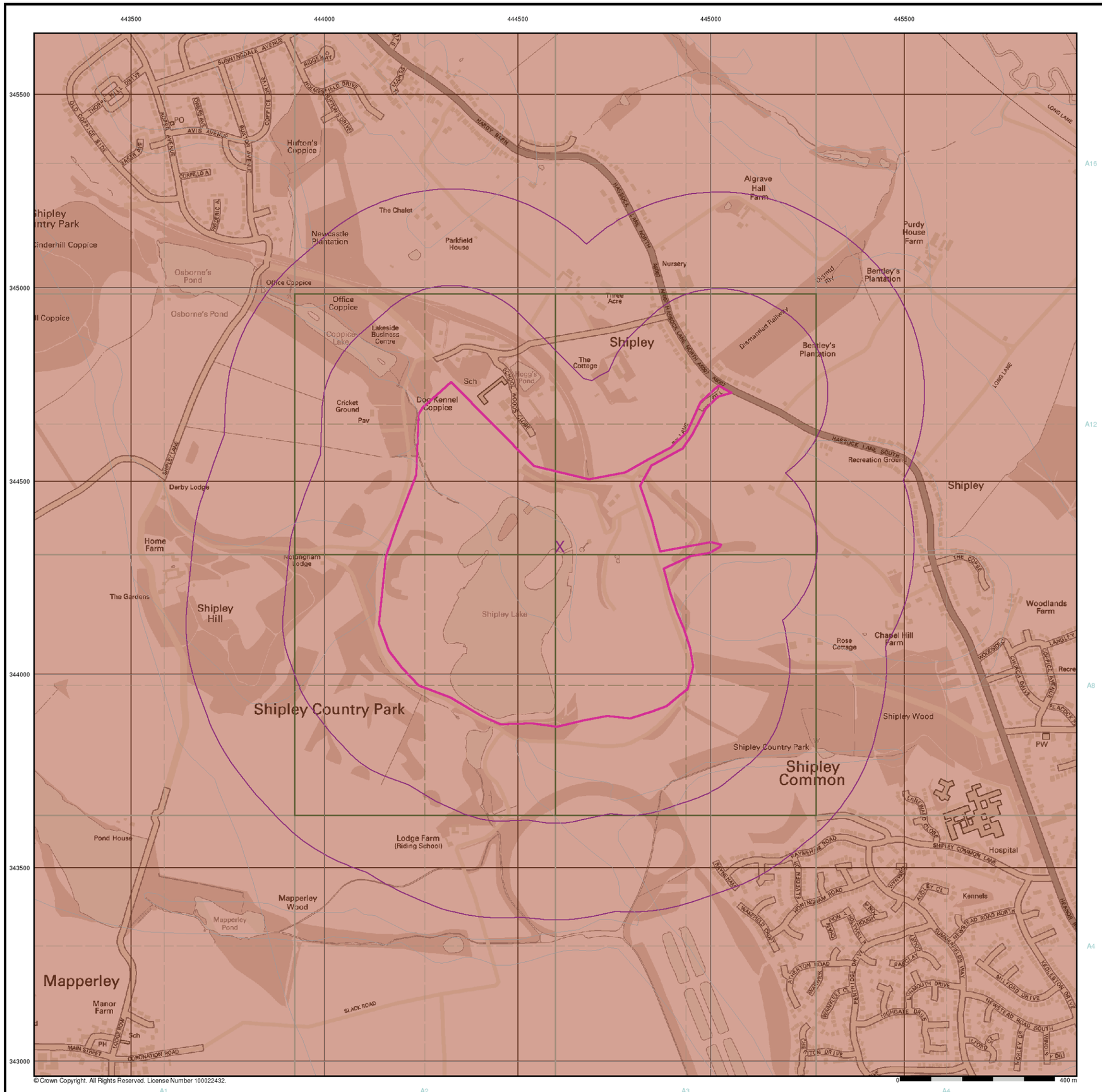


Envirocheck®

General

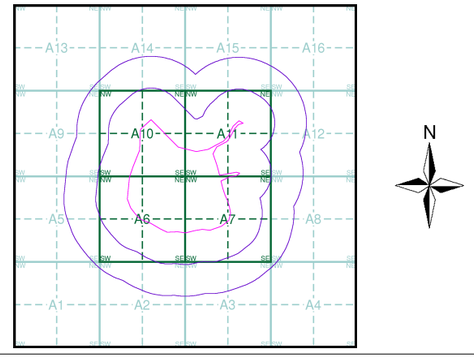
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

Site at 445100, 344800

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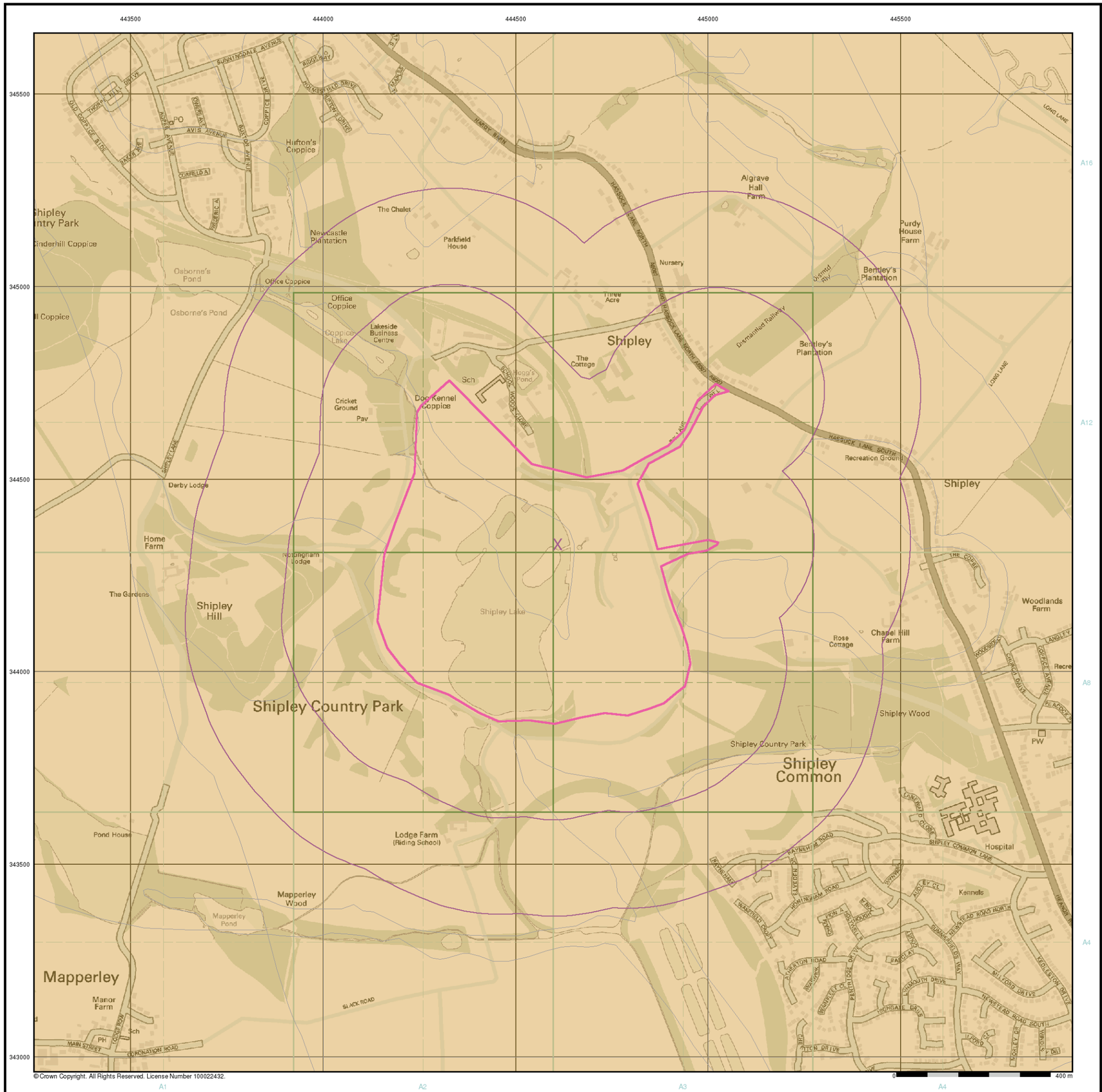

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General

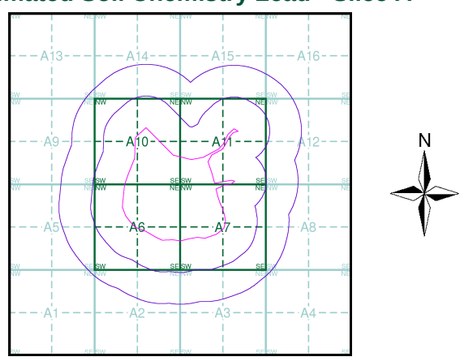
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Estimated Soil Chemistry Lead - Slice A

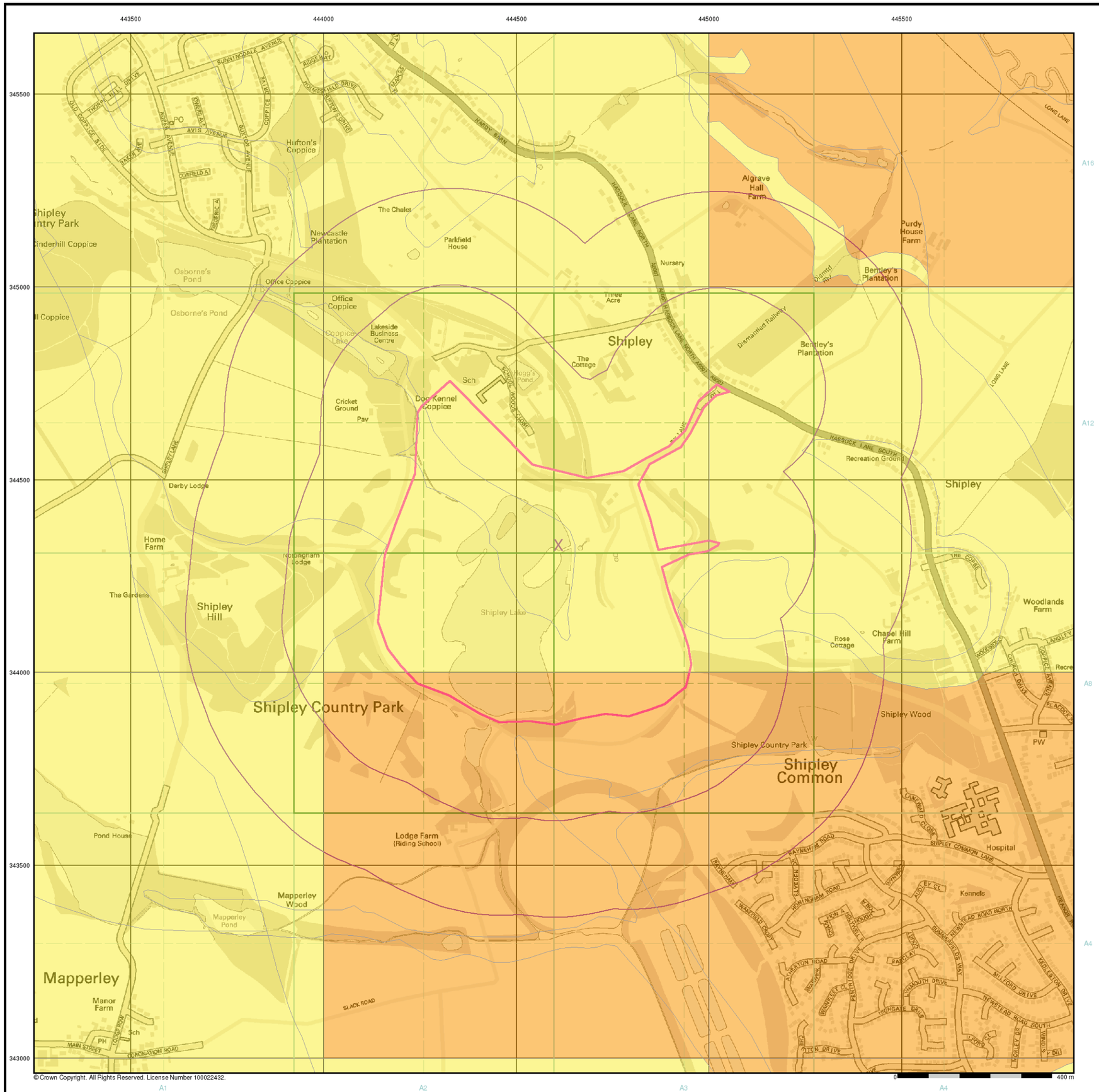


Order Details

Order Details:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

Site at 445100, 344800



General

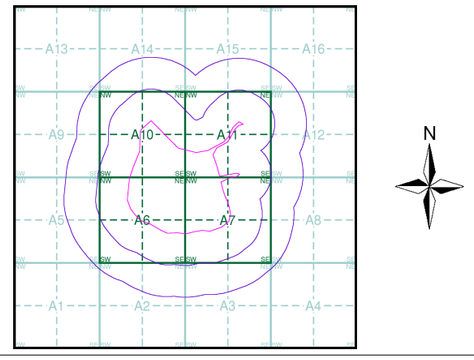
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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

Order Details:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444610, 344330
Slice:	A
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

Site at 445100, 344800

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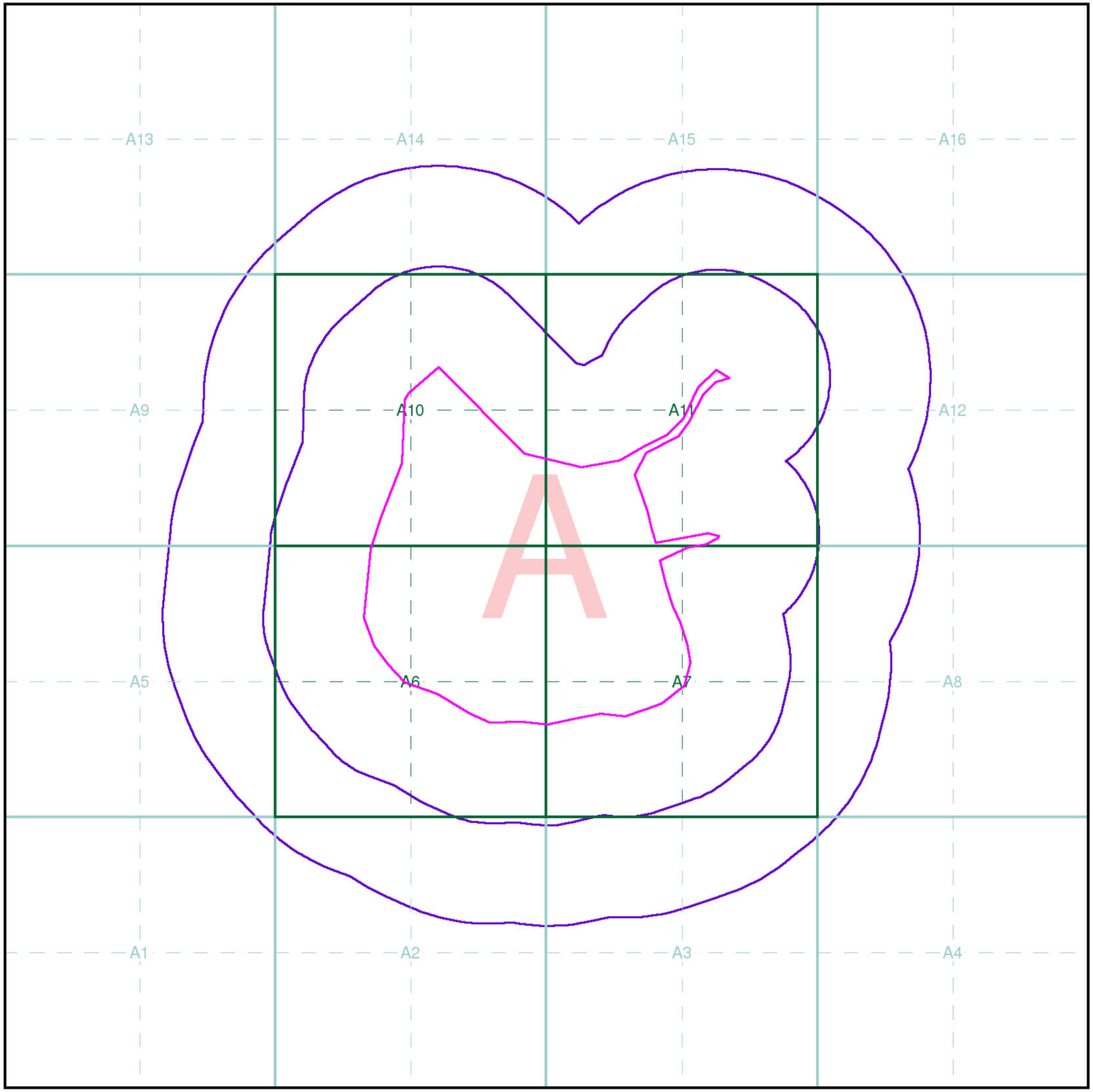

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Index Map

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:

Ordnance Survey® Licensed Partner

British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr D Thornton, URS, 12 Regan Way, Checkwind Business Park, Chillwell, Nottingham, Nottinghamshire, NG9 6RZ

Order Details

Order Number:	41021474_1_1
Customer Ref:	Shipley Lakeside
National Grid Reference:	444530, 344240
Site Area (Ha):	49.51
Search Buffer (m):	500

Site Details

Site at 445100, 344800

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APPENDIX C INFORMATION FROM THE COAL AUTHORITY

The COAL AUTHORITY

Issued by:
The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0845 762 6848 DX 716176 MANSFIELD 5

LANDMARK INFORMATION GROUP LIMITED
SOWTON INDUSTRIAL ESTATE
ABBEY COURT
UNIT 5/7 EAGLE WAY
EXETER
DEVON
EX2 7HY

Our reference:	**51000150250001**
Your reference:	**41021474**
Date of your enquiry:	**24 August 2012**
Date we received your enquiry:	**24 August 2012**
Date of issue:	**03 September 2012**

This report is for the property described in the address below and the attached plan.

Non-Residential Coal Authority Mining Report

SITE AT: 445100, 344800, SHIPLEY LAKE, ILKESTON, DERBYSHIRE,

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	See comments below
Brine Compensation District	No

Information from the Coal Authority

Underground coal mining

Past

The property is in the likely zone of influence from workings in 10 seams of coal at shallow to 470m depth, and last worked in 1964.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

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Within, or within 20 metres of, the boundary of the property there are 12 mine entries, the approximate positions of which are shown on the attached plan.

Our records disclose the following information:

444344-018. is unfilled and is used for pumping.

444344-001. No treatment details.

444344-021. was partly filled above a constructed stage at a depth of 265m in March 1973. The shaft was partially removed during opencast mining and was subsequently capped by the NCB Opencast Executive 35m below original ground level.

444344-004. No treatment details.

444344-005. was stopped off with concrete by the NCB Opencast Executive in 1973.

444344-017. No treatment details.

444344-003. No treatment details.

444344-020. No treatment details.

444344-019. has been filled to an unknown specification.

444344-023. was partially removed during opencast mining and was subsequently capped by the NCB Opencast Executive 35m below original ground level.

444344-022. has been filled to an unknown specification and has probably been removed to some extent by opencast mining.

444344-002. No treatment details.

Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

For an additional fee, the Coal Authority will provide a supplementary Mine Entry Interpretive Report. The report will provide a separate assessment for the mine entry (entries) referred to in this report. It will give details based on information in the Coal Authority's possession, together with an opinion on the likelihood of mining subsidence damage arising from ground movement as a consequence of the existence of the mine entry/entries. It will also give details of the remedies available for subsidence damage where the mine entry was sunk in connection with coal mining.

Please note that it may not be possible to produce a report if the main building to the property cannot be identified from Coal Authority plans (ie. for development sites and new build).

For further advice on how to order this additional information visit www.groundstability.com or telephone 0845 7626 848.

Coal mining geology

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

Opencast coal mining

Past

The property is within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal mining subsidence

There are 1 claim(s) within 50 metres of the property boundary that do not match the property address. These are shown on the attached plan.

© The Coal Authority

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

If further subsidence damage claims information is required in addition to that provided in this report, the Authority need to manually search their records. For further advice on how to order this additional information visit www.groundstability.com or telephone 0845 7626 848.

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of support

The property is in an area for which notices of entitlement to withdraw support were published in 1946, 1950.

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

Working facilities orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to owners of former copyhold land

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

Comments on Coal Authority information

The attached plan shows the approximate location of the disused mine entry/entries referred to in this report. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

Property owners have the benefit of statutory protection (under the Coal Mining Subsidence act 1991*). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage from disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and the obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by telephoning 0845 762 6848 or online at www.coal.decc.gov.uk/en/coal/cms/services/claims.

If you wish to discuss the relevance of any of the information contained in this report you should seek the advice of a qualified mining engineer or surveyor. If you or your adviser wish to examine the source plans from which the information has been taken these are normally available at our Mansfield office, free of charge, by prior appointment, telephone 01623 637235. Should you or your adviser wish to carry out any physical investigations that may enter, disturb or interfere with any disused mine entry the prior permission of the owner must be sought. For coal mine entries the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries). Our emergency telephone number at all times is 01623 646333.

*Note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

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In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional Remarks

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006.

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Location map

Approximate position of property



Enquiry boundary

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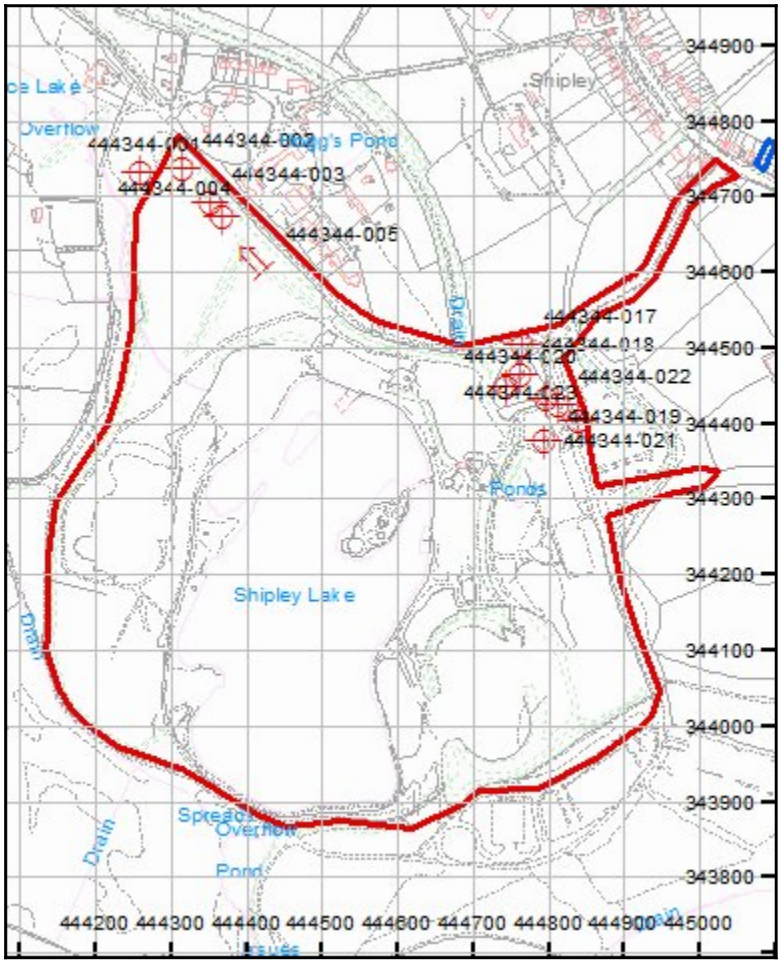

Key

Approximate position of enquiry boundary shown

Disused Adit or Mineshaft

Coal Claims

Mapping sourced from Ordnance Survey