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Ground Investigation Report

Proposed Residential Development

Pilsworth Road, Heywood

February 2024



Project Details

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Drawing Register

Title	Produced by	Date	Reference
Exploratory Hole Location Plan	Soiltechnics Ltd	January 2024	STV6300-D01-A
Location Plan	Triangle Architects	December 2023	23-030-SK01-P02
Proposed Site Plan	Triangle Architects	December 2023	23-030-SK17-P03

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Non-technical Summary

Topic	Commentary
Site description	The site comprises an area of soft landscaping with mature trees present and a footpath through the centre. The site is currently unoccupied but accessible to the general public. Adjacent land uses are occupied mostly by residential housing.
Development proposals	The scheme comprises the construction of a two-storey residential development, containing 8 No. 1-bedroom flats with a central stair core, ancillary space and soft landscaping. The development is controlled under the Rochdale Borough Council planning regime, under application reference 23/01381/FUL/2023.
Ground conditions	The site is underlain by up to 0.4m of topsoil with Made Ground only encountered within WS04 between depths of 0.25-0.55m. Devensian Till deposits were recorded underlying topsoil/Made Ground to a depth of 1.7m to 2.6m bgl. Bedrock deposits of weathered Pennine Lower Coal Measures Formation comprising clays and gravels were encountered at the base of all boreholes.
Development constraints	Several trees including a high water demand oak tree, 2 No. stumps (unknown species) and younger assumed medium water demand trees are located close to or beneath the proposed building footprint. As such all foundations will need to be deepened within influencing distance of such vegetation.
Mining Risk	The site is recorded within a coal mining reporting area, but outside of a Development High Risk Area. Based on review of mining legacy risks, the risk of instability occurring on site is considered to be very low.
Foundation and slab solution	Trench fill foundations extending onto the natural Devensian Till/weathered Pennine Lower Coal Measures can be adopted for the development. Foundations depth will be dictated by proximity of existing trees/stumps. Suspended floor slabs should be adopted. Heave protection measures will be necessary within foundation excavations. It is recommended that a concrete classification of DS-1 AC-1s is recommended for sub-surface concrete.
Drainage potential	Permeability testing was performed within the natural strata, however, very low permeability rates (9.27×10^{-7} and 1.26×10^{-6} m/s) were calculated. Given the cohesive nature of the shallow soils, it is unlikely that shallow soakaway solutions for surface water drainage will be feasible. Assessment of bedrock could be undertaken, which may exhibit permeability, but further testing would be necessary to confirm, or otherwise.
Chemical contamination and remedial requirements	Potential risks from contamination have been identified within shallow topsoil/Made Ground which would require remedial works to progress the development through planning. Given the limited thickness of topsoil/Made Ground across the site (0.3-0.55m), it is recommended that topsoil/Made Ground is removed to natural uncontaminated formation level within proposed soft landscaping areas. These soils should be replaced with a minimum 150mm depth of clean, imported topsoil.
Radon, gas risk and protection measures	The site is at a low risk from ground gas migration associated with off-site areas of infilled ground. The site is in an area where the above ground radon Affected Area status is classed as a Lower Probability Radon Area therefore no radon protection measures
Recommendation for further works	A Remediation Strategy and subsequent Verification Report.

1 Introduction

1.1 Scheme Outline

- 1.1.1 The scheme comprises the construction of a two-storey residential development, containing 8 No. 1-bedroom flats with a central stair core, ancillary space and soft landscaping. Client drawings and documents are presented within Appendix A.
- 1.1.2 It is understood that the development is controlled under the Rochdale Borough Council planning regime, under application reference 23/01381/FUL/2023.
- 1.1.3 The report is based on the project proposals and information outlined above; should the scheme change then it will be necessary to review the conclusions and recommendations presented in this report.

1.2 Brief

- 1.2.1 This report has been prepared following instructions received from Ward Williams Associates, on behalf of our mutual Client, Cornerstone Place Ltd. The overall brief of works is to:
- i) Undertake a ground investigation at the site to establish the prevailing ground conditions and identify potential abnormal development constraints.
 - ii) Support the planning application by assessing the potential risks from contamination at the site.
 - iii) Determine geotechnical parameters and provide a geotechnical appraisal for the scheme.
- 1.2.2 The objectives of this report are outlined below:
- iv) Summarise the intrusive investigation works undertaken and associated laboratory testing.
 - v) Present a ground model summarising the ground and groundwater conditions at the site including relevant geotechnical parameters.
 - vi) Provide a geotechnical appraisal for the project and highlight key geotechnical issues that may impact upon the proposed scheme.
 - vii) Undertake a land contamination Tier 2 generic quantitative risk assessment.
 - viii) Provide recommendations to inform an Options Appraisal and Remediation Strategy, should they be required.
 - ix) Provide a waste characterisation assessment of soils at the site for potential disposal to landfill.
- 1.2.3 Soiltechnics have previously completed a Tier 1 Preliminary Risk Assessment and Coal Mining Risk Assessment (ref STV6300-R01_RevB) dated December 2023. We have replicated such information for completeness within Sections 2, 3 and 4 of this report.

1.3 Definition of Scope

1.3.1 The phasing and scope of the ground investigation works is broadly defined by the following documents.

Title	Document Reference	Publisher	Investigation Scope
Code of practice for ground investigations	BS 5930: 2015	British Standards Institution	Phase 1: Desk study Phase 2: Preliminary investigation
Eurocode 7 — Geotechnical design Part 2: Ground investigation and Testing	BS EN 1997-2: 2007	British Standards Institution	Preliminary Investigation
Investigation of potentially contaminated sites – Code of practice	BS 10175: 2011+A2:2017	British Standards Institution	Preliminary Investigation (desk study) Exploratory Investigation
Land contamination risk management	Online resource, updated April 2021	Environment Agency	Stage 1 Risk Assessment: Tier 1: Preliminary risk assessment Tier 2: Generic quantitative risk assessment
https://www.gov.uk/guidance/planning-applications-coal-mining-risk-assessments	-	The Coal Authority	Preliminary coal mining risk assessment
Abandoned mine workings manual	C758 2019	CIRIA	

Table 1-A: Definition of Investigation Scope

1.4 Limitations

1.4.1 Soiltechnics disclaims any responsibility to our Client and others in respect of any matters outside the scope of this report. This report has been prepared with reasonable skill, care and diligence in accordance with the terms of our contract, taking account of the resources, investigations and testing devoted to it by agreement with our Client. This report is confidential to our Client and Soiltechnics accepts no responsibility of whatsoever nature to third parties to whom this report or any part thereof is made known. Any such party relies upon the report at their own risk.

2 Desk Study

2.1 Sources of information

2.1.1 Reference has been made to the following sources of information:

- An Envirocheck Report and historical map records, presented as Appendix J
- British Geological Survey (BGS) GeoIndex – Onshore database.
- Ordnance Survey OpenData.
- Coal Authority Development and Specific Risk databases.
- Environment Agency open-source databases.
- Google mapping services.
- Interrogation of search engines for anecdotal information on the site history and other readily available online resources.

2.1.2 It should be noted that the Envirocheck report covers the red line boundary as well as the wider land ownership boundary to the northwest. The following assessment relates to the wider site including the red line boundary subject to the planning submission.

2.2 Site Description

2.2.1 The proposed development lies within Heywood, approximately 500m south of the town centre. The post code for the site is OL10 3AD, and the site is accessed across all boundaries.

2.2.2 An aerial image showing the approximate site boundary is presented below along with photographic records of the site. A table summarising the key site features is also provided below.



Figure 2-A: Aerial photograph with approximate planning boundary (red) and wider area of land ownership (blue)



Figure 2-B: Photograph taken from the south of the site looking northeast



Figure 2-C: Photograph taken from the south of the site looking northwest



Figure 2-D: Photograph taken from the southwestern boundary looking northwest

Theme	Feature
Current site use	The site comprises an area of soft landscaping with mature trees present and a footpath through the centre. The site is currently unoccupied.
Local area land use	Adjacent sites are occupied mostly by residential housing. Directly south of site there is an industrial/commercial unit.
Topography	The topography of the surrounding area falls gradually towards the River Roch some 850m north of the site. Site levels fall by some 4m from northeast to southwest, with the most prominent fall in the west and south of the site where falls by up to 2m towards Pilsworth Road along the west.
Buildings, surfacing and other permanent features	Steps are present in the south of the site, allowing pedestrian access onto the site from Tower Street. An unsurfaced path crosses the site from south to north. The southern and western boundaries of the site are defined by a small (~0.3m high) retaining wall.
Boundary features	The site boundaries are defined by Wilton Street to the north, Tower Street to the east and south, and Pilsworth Road to the west. Residential properties are recorded beyond.
Vegetation	The site is entirely covered with grass. A group of mature trees are predominately scattered throughout the south and west of the site, up to ~15m in height.
On-site / adjacent surface water features	None observed. The nearest notable water course recorded to the site is the River Roch some 850m north of the site. It is likely that the former Wrigley Brook to the south, east and west has been culverted based on sewer records.
Environmental Designations	The site is not reported to be within or in close proximity to any areas of designated sensitive land use, such as a Ramsar Site, Site of Special Scientific Interest (SSSI), or Special Area of Conservation.
Injurious and invasive weeds	None observed.

Theme	Feature
Asbestos containing material (ACM) in buildings	No building recorded on site.
ACMs on site	None observed.
Potential sources of contamination	None observed.
Evidence for ground instability	None observed.

Table 2-A: Site Description

- 2.2.3 The observations provided above are made by a Geoenvironmental Engineer, who is not a specialist in asbestos surveying or invasive weed identification. Any associated comments are intended for use by this report only, and not for any other purpose.

2.3 Planning Records

- 2.3.1 A search of online planning records held for the site by Rochdale Council reveals no pertinent information exists in the vicinity of the site.

2.4 Previous Reports

- 2.4.1 Soiltechnics are not aware of any previous ground investigation reports undertaken at the site.

2.5 Site History

- 2.5.1 A chronological summary of the site's history is provided below.

Date	On-site	Off-site
Mid 1800s	Site recorded as open land forming part of a wider field.	Site surrounded by open land (assumed of agricultural use). Buildings recorded 50m and beyond to the north of the site. Wrigley Brook recorded 50m south of the site and west.
Late 1800s	Four unclassified buildings are recorded on site (three within the centre, one within the northwest). Fencing/walls separates the site into several parcels of land.	There are several rows of terrace housing located immediately beyond the north and east. 2 No. Cotton Mills with associated reservoir are located 50m to 100m south. Victoria Mineral Water Works is recorded within 100m to the west. New York Mill with associated reservoir located 150m southwest. Broadfield Rubber Works and Paved Brow Mill with associated reservoirs located 150m to 200m northwest of the site. Brook Mills with associated reservoirs located 150m to 200m north of the site. Tower Street, Pilsworth Road concurrent to present day layout. Dickeng Street concurrent to Wilton Street present day.
Early 1900s	Building within northwest of site no longer recorded. Some buildings within centre of the site no longer recorded and replaced with new unclassified buildings. By 1929, buildings within centre of site no longer recorded. Single unclassified building within south of site noted.	Reservoir associated with Cotton Mill 100m south of site no longer recorded and replaced by Broadfield Mill building. New Reservoir recorded 130m southeast of site. Wrigley Brook no longer recorded in mapping (likely culverted). Plum Mill recorded 100m to 200m east of site with large reservoir 130m east of the site. Further residential terraced developments 100m and beyond to the north, northeast and south.

Date	On-site	Off-site
		Unity Mill with associated large reservoir 250m southwest. Brick Works 300m south. By 1929, further residential development 100m and beyond to the south. Belgrave Works recorded 75m southeast. Victoria Mineral Water Works no longer recorded. Railway sidings recorded 250m south.
Mid 1900s	By 1937, building within south of site no longer recorded, orchard occupies the entire site. A telephone cell box is recorded at the site's southern boundary. By 1957, footpath recorded crossing centre of site from south to north.	By 1937, reservoirs 200m to the north and northwest of site no longer recorded. Continual residential development 200m southwest. By 1956, reservoirs 150m southwest of site and 200m northwest no longer recorded. Allotment gardens 150m southeast. Timber yard recorded 200m northwest. By 1964, Brook Mills no longer recorded 200m north.
Late 1900s	By 1992, path replaced by smaller path as per existing site layout.	Mills and reservoirs 100m to 200m to the east and south of site no longer recorded and replaced with soft landscaping and/or residential developments or works (75m south of site). Surrounding land predominately developed into residential/commercial use.
Early 2000s	No significant changes.	No significant changes.

Table 2-B: Summary of site history

2.6 Regulatory Enquiries

- 2.6.1 Soiltechnics have contacted Local Authority Building Control and have been informed that Rochdale Borough Council Building Control do not hold any information for the site. We have not currently heard from the Environmental Health department. If any pertinent information is received, this report will be updated in due course.

2.7 Anticipated Geology

- 2.7.1 Based on a review of available records, the site is anticipated to be underlain by the following geological units, in order of sequence, Glaciofluvial Deposits (only within the north-eastern half of the site), Devensian Till (at surface everywhere onsite but the northeast) and Pennine Lower Coal Measures Formation bedrock.
- 2.7.2 A geological fault crosses the western centre of the site, trending northwest to southeast.
- 2.7.3 Given the history of the site, Made Ground is also anticipated to be present.
- 2.7.4 A summary of the anticipated geology underlying the site is summarised as follows:

Stratum	Bedrock / superficial	Anticipated thickness (m)	Typical description
Glaciofluvial Deposits (north-eastern half of site only)	Superficial	<5	Soft brown to dark brown clay with gravel and dark brown sand and gravel
Devensian Till		<10	Brown/grey clay
Pennine Lower Coal Measures Formation	Bedrock	Up to 700	Interbedded grey mudstone, siltstone and pale grey sandstone with coal seams

Table 2-C: Summary of anticipated geology at the site

2.8 Hydrogeology and Groundwater Sensitivity

2.8.1 The general hydrogeological profile of the site is provided in the table above.

Stratum	Aquifer Designation	Stratum Thickness (m)	Groundwater commentary
Glaciofluvial Deposits	Secondary A	<5	Permeable in sand and gravel lenses.
Devensian Till	Secondary Undifferentiated	<10	Effectively impermeable.
Pennine Lower Coal Measures Formation	Secondary A	700	Present in fractures/at depth.

Table 2-D: Preliminary Hydrogeological Model

2.8.2 Published borehole records in the surrounding area encountered groundwater within Glaciofluvial Deposits at depths of around 2mbgl to 10mbgl. Those borehole records off Holly Oak Gardens (375m east) are at a similar ground elevation to the proposed site. Based on this, groundwater on site may also be present at depths of between 2mbgl and 10mbgl.

2.8.3 The site is not located within a Source Protection Zone.

2.8.4 There are no active groundwater abstraction licenses recorded within 1km of the site. The nearest abstraction point is some 1.22km east of the site, utilised for process water at a tannery.

2.9 Hydrology and Surface Water Sensitivity

2.9.1 On and adjacent to site, there are no surface water features, the nearest surface water feature is recorded 222m west of the site and is associated with a small pond located on school grounds. The former channel of Wrigley Brook is culverted along the approximate routes of Pilsworth Road and Tower Street.

2.9.2 There are no active surface water abstraction licenses within 1km, down-gradient of the site. The closest active surface water abstraction is recorded 1.74km north of the site, utilised in paper production and printing.

2.10 Flood Risk

2.10.1 The site falls within a Flood Zone 1 area. This designation indicates there is less than a 0.1% chance of flooding from rivers or the sea in any year.

2.10.2 It should also be noted that Pilsworth Road immediately west of the site is recorded as an area being at risk of potential surface water flooding in a 1 in 30-year flood extent.

2.10.3 The site is recorded in area shown to have a potential for groundwater flooding to occur at surface.

2.10.4 It should be noted that this information does not constitute a site-specific Flood Risk Assessment and one may be required for the scheme.

2.11 Non-Mining Ground Instability Hazard

- 2.11.1 The Envirocheck Report includes hazard ratings due to natural ground instability, which have been derived by the BGS. These hazards have been summarised in the table below.

Hazard	Hazard Potential	Discussions
Collapsible ground	Very Low	N/A
Compressible ground	No hazard	N/A
Ground dissolution	No hazard	N/A
Landslide	Very low	N/A
Running sand	Very low	N/A
Shrinking or swelling clay	Very low	N/A

Table 2-E: Non-Mining Ground Stability Hazards

2.12 Quarrying and Mining

- 2.12.1 The site is located within a coal mining reporting area. On this basis a Consultants Coal Mining Report has been obtained from the Coal Authority and a copy is presented as Appendix H.
- 2.12.2 The site is not recorded to be within 250m of any BGS recorded mineral sites.

2.13 Landfill and infilled ground

- 2.13.1 The following table summarises current and historical landfill sites and infilled ground records within 250m of the site.

Name	Distance from site (m)	Type of record	Waste deposited / resource extracted	Further information
Water body	20 N	Infilled Ground	N/A	Associated to Wrigley Brook
Water body	42 N	Infilled Ground	N/A	
Water body	43 W	Infilled Ground	N/A	Unclear from mapping whether representative of a water body
Water body	88 SE	Infilled Ground	N/A	Associated to Wrigley Brook
Water body	103 S	Infilled Ground	N/A	Reservoir associated with Cotton Mill
Water body	109 S	Infilled Ground	N/A	Associated with small ditch/brook
Water body	152 S	Infilled Ground	N/A	Reservoir associated with Cotton Mill
Water body	156 N	Infilled Ground	N/A	Reservoir associated with Brook Mills
Water body	169 N	Infilled Ground	N/A	
Water body	169 SW	Infilled Ground	N/A	Reservoir associated with Mill
Water body	170 E	Infilled Ground	N/A	Reservoir associated with Plum Mill
Water body	206 NW	Infilled Ground	N/A	Reservoir associated within Broadfield Rubber Works and Paved Brow Mill
Water body	228 NW	Infilled Ground	N/A	

Name	Distance from site (m)	Type of record	Waste deposited / resource extracted	Further information
Water body	233 SE	Infilled Ground	N/A	Associated with allotment gardens

Table 2-F: Summary of landfill and infilled ground records

- 2.13.2 The closest landfill site is present 588m north of the site, which received inert, commercial, household and industrial waste 1900 and 1975.

2.14 Recent industrial activity

- 2.14.1 There are no regulated facilities or activities in the vicinity of the site under IPPC or LAPPC control, and no registered radioactive substances.
- 2.14.2 There are no Contemporary Trade Directory entries associated with site itself, and 10 No. are held within 250m. These entries are largely inactive, with the nearest being recorded as a machine shop (113m south).
- 2.14.3 Other potential contaminative trades include a sheet metal works and engineers (122m southeast) and a commercial cleaning service (179m southeast).
- 2.14.4 There are no records held of registered radioactive substances within 1km of the site.
- 2.14.5 As the site is not located in close proximity to an open watercourse, records held of discharge consents and pollution incidents to surface waters are not considered relevant to this desk study.
- 2.14.6 No records are held for pollution incidents or discharges to land or groundwater within 500m of the site.

2.15 Radon

- 2.15.1 The site is in an area where the above ground radon Affected Area status is classed as a Lower Probability Radon Area.

2.16 Underground Infrastructure

- 2.16.1 Copies of all utility plans obtained are presented as Appendix I. The plans are provided for information only and should not be relied upon to be accurate. In addition, it is worth noting that the public utility plans provided by the asset owners typically exclude private service runs.
- 2.16.2 A review of the plans indicates that both an LV cable and BT cabling enters the north of site where they both terminate. The asset holder should be consulted at the earliest opportunity to identify any construction constraints that may apply.

2.17 Unexploded Ordnance (UXO) Hazard Screen

- 2.17.1 A preliminary risk review has been undertaken by a UXO specialist to assess the risk of encountering UXO during ground investigation works undertaken by Soiltechnics only and to identify any precautionary measures required. It should be noted that the risk assessment has not been carried out fully in accordance with CIRIA report C785 'Unexploded Ordnance (UXO) A guide for the construction Industry'.

- 2.17.2 The risk review concluded that there is not a credible risk of encountering UXO during ground investigations. It should be noted that this preliminary risk review does not consider risks to the construction phase.

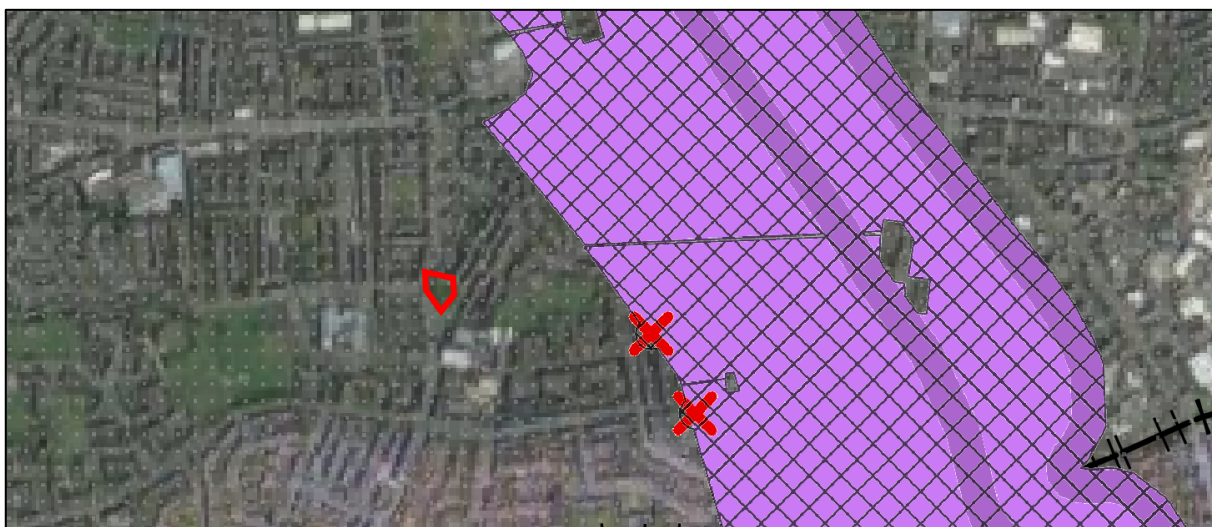
3 Coal Mining Risk Assessment

3.1 General

- 3.1.1 The site lies within a Coal Mining Reporting area but outside of a Development High Risk Area. A Coal Authority Consultants report has been obtained for the site and is presented in Appendix H.
- 3.1.2 'Coal Mining Development High Risk Areas' are areas, based upon Coal Authority records, where the potential land instability and other safety risks associated with former coal mining activities are likely to be greatest. They include, for example, areas of known or suspected shallow coal mining, recorded mine entries and areas of former surface mining. Whilst the site is not recorded within a Development High Risk Area, there are areas recorded within close proximity to the site (<200m to the northeast), as such it is recommended that a coal mining risk assessment is undertaken for the proposed development.
- 3.1.3 We have reviewed available information in relation to coal mining to produce a risk assessment, which follows guidance produced by The Coal Authority (<https://www.gov.uk/guidance/planning-applications-coal-mining-risk-assessments>), in addition to information contained within CIRIA report C758 "Abandoned mine workings manual" (2019).

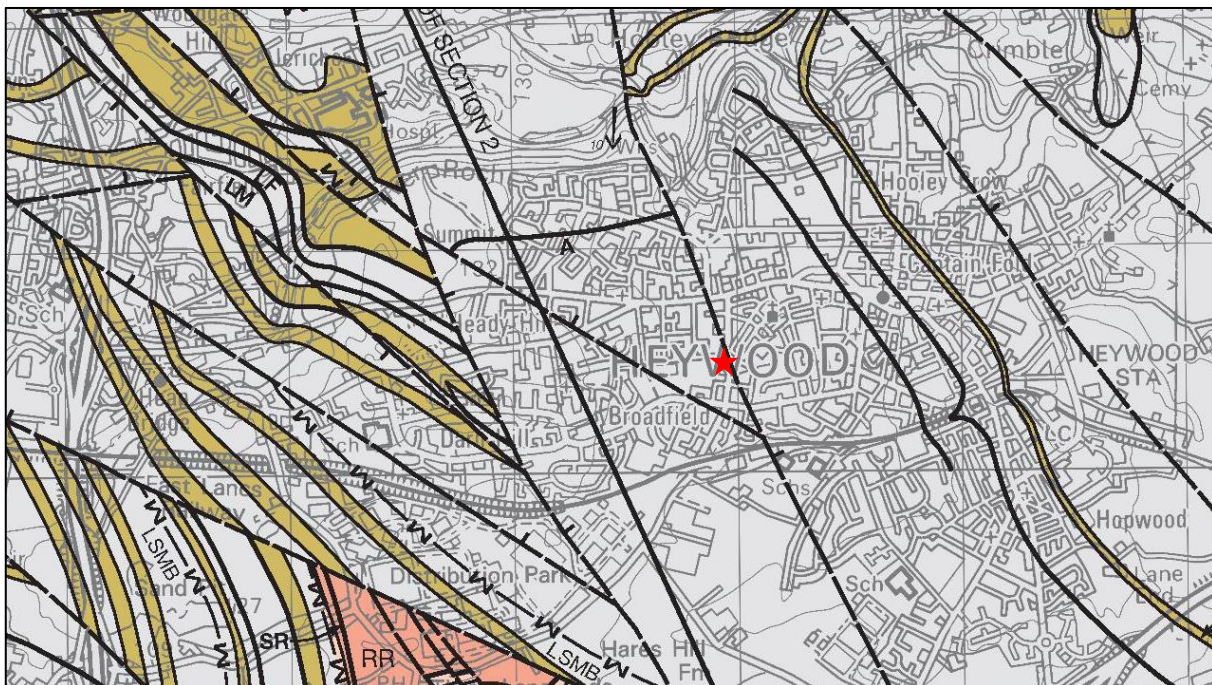
3.2 Review of Desk Based Information

- 3.2.1 The following sources of information have been used in production of the assessment and are summarised in the following sections:
- Historical Ordnance Survey Maps
 - Consultants Coal Mining Report produced by The Coal Authority
 - Geological information obtained from the British Geological Survey
 - Coal Authority online database
 - Other relevant information
- 3.2.2 Based on site history presented in Section 2.5, the site has been redeveloped on up to 3 No. occasions up until c.1937 when the land was adopted as an orchard/public open space up to present day.
- 3.2.3 The Consultants Coal Mining Report states that the site is not recorded within an area where past mining is recorded, nor is there evidence of probable unrecorded shallow workings (<30m depth) beneath the site.
- 3.2.4 There are no mine entries recorded on site or within 100m of the site, no opencast workings 500m of the site or mine gas emissions within 500m of the site.
- 3.2.5 A copy of the Coal Authority interactive mapping for the site is shown below.



3.2.6 An extract from the 1:50,000 BGS map of the area showing the site context is presented in Figure 3-B below. As shown in the Figure, a fault crosses the site in a northwest-southeast direction, further faulting is recorded beyond the site to the west.

3.2.7 The Arley Coal seam is present some 600m north of the site, which dips to the south at approximately 10°. A thin unnamed coal seam is present some 700m east of the site, with the Arley Seam also present beyond by a further 190m.



3.2.8 Given the distances to recorded coal seams in the area, and presence of faulting, the likelihood of coal seams being present at shallow depth is considered to be low.

3.3 Risk Summary

3.3.1 The table below summarises the potential risks associated with coal mining legacy at the site, identified from the sources of information as presented in preceding sections of this report: -

Coal Mining Aspect	Potentially High Risk?	Risk Assessment
Recorded underground shallow coal mining	✗	None recorded.
Probable underground shallow coal mining	✗	None recorded.
Underground coal mining (recorded at depths >30m)	✗	None recorded
Mine entries (shafts / adits)	✗	None recorded within 100m of the site.
Coal mining geology (fissures)	✓	Fault recorded along the southern boundary of the site.
Record of past mine gas emissions	✗	None recorded.
Recorded coal mining surface hazard	✗	None recorded.
Surface mining (opencast workings)	✗	None recorded.

Table 3-1: Summary of risk assessment in relation to coal mining legacy

3.4 Conclusion

3.4.1 On the above assessment there is no evidence to suggest the site is at risk of ground instability associated with coal mining legacy in the area. Given workings are not recorded at depth, the fault recorded onsite is unlikely to pose a migration pathway to possible mine gases, and is highly unlikely to reactivate at any time in the near future based on historic BGS recorded earthquake data.

4 Tier 1 Preliminary Contamination Risk Assessment

4.1 Objectives

- 4.1.1 The objective of this preliminary risk assessment (PRA) is to determine the suitability of the site for the proposed redevelopment and end users, in terms of the risk from contamination. The assessment comprises the following steps:
- Identify potential contaminant linkages (PCLs) between sources, pathways and receptors.
 - To provide data to assist in the design of potential exploratory and detailed intrusive investigations and to give an early indication of possible remedial requirements, if necessary.

4.2 Evaluation Criteria

- 4.2.1 The following assessment is undertaken within the legislative framework of the planning system. Therefore, the assessment needs to identify if land contamination could pose an unacceptable risk to human health or the environment, within the context of the proposed development site. In the context of the existing site use, as a minimum, land should not be capable of being determined as 'contaminated land' under Part IIA of the Environmental Protection Act 1990.

4.3 Methodology

- 4.3.1 The objectives listed above are achieved by utilising the information presented within the desk study to develop an initial conceptual site model (iCSM) and identification of potential unacceptable risks. Depending upon the outcome of the Tier 1 assessment, it may be necessary to undertake a Tier 2 generic quantitative risk assessment (GQRA).
- 4.3.2 An iCSM relies upon the identification and assessment of PCLs. A contaminant linkage comprises of three key components:
- Source – a contaminant or pollutant that is in, on or under the land and that has the potential to cause harm or pollution.
 - Pathway – Current and post-development routes by which a receptor is, or could be, affected by a contaminant.
 - Receptor – Something that could be adversely affected by a contaminant, for example a person (current and proposed end users or neighbours), controlled waters and ecosystems.
- 4.3.3 The Tier 1 risk assessment has been produced with reference to the following guidance:
- '[Land contamination risk management](#)' (EA, 2021).
 - BS 10175:2011+A2:2017 'Investigation of potentially contaminated sites – Code of Practice'.
 - CIRIA C552 'Contaminated land risk assessment- a guide to good practice', 2001.
 - BS EN ISO 21365:2020 'Soil quality – Conceptual site models for potentially contaminated sites'
 - BS 8576:2013 'Guidance on investigations for ground gas – Permanent gases and Volatile Organic Compounds (VOC)'.

4.4 Source Assessment

- 4.4.1 The table below summarises identified sources based on the findings of the desk study. Where appropriate, further discussion has been provided in the paragraphs which follow.

Potential Sources	Contaminant(s) of concern	Detail	Viable source?
On-site sources			
Made Ground of unknown origin (associated with historic building on site)	Metals, polycyclic aromatic hydrocarbons (PAH), asbestos	The site has undergone three redevelopment phases. Historically common practice was to bury a portion of the demolition wastes on site prior to construction of new buildings.	Y
	Permanent ground gases (CH4 and CO2)	Made Ground is anticipated to comprise largely of demolition fill and thus unlikely to contain significant thickness of putrescible materials.	N
Radon	Radon	The site is recorded as being in a Lower Probability Radon Area. Protection measures are not required.	N
Aggressive ground conditions due to historical industrial activities	Acids	The risk of aggressive ground affecting concrete is to be considered under a geotechnical investigation and has been excluded from further consideration.	N
Aggressive ground conditions due to potentially pyritic ground	Pyrite and sulphates		N
Off-site sources			
Historic Mills/Works	Metals, polycyclic aromatic hydrocarbons (PAH), asbestos	Dependent of the management of the historic mills numerous chemical contaminants could have been generated and released into nearby soils.	Y
Historical infilled ground (including reservoirs)	Metals, polycyclic aromatic hydrocarbons (PAH), asbestos	The infilled drainage ditches/brooks and those associated with the allotment gardens are unlikely to produce significant quantities of ground gases given their size, but still present a source of soil contamination.	Y
	Permanent ground gases (CH4 and CO2)	Possible source of ground gas contamination associated to the 8 No. reservoirs recorded to have been infilled within 250m of the site.	
Trades	Metals, polycyclic aromatic hydrocarbons (PAH), asbestos	Given the distance of recorded trades from the site (all >113m) unlikely to be considered a viable source to the site.	N

Table 4-A: Contamination source assessment

4.5 Receptor Assessment

4.5.1 The following table summarises the identified receptors based on current site conditions and our understanding of the proposed end use:

Receptor Category	Principal Receptor	Receptor present?	Detail
Human health	Users of the current site	Yes	Currently unoccupied and disused but open to the public.
	End user of the developed site	Yes	Proposed residential flats with soft landscaping and ancillary space.
	Construction operatives and other site investigators	Yes	Site to be developed.
	Adjacent site users and off-site members of the public	Yes	Public footpath and residential properties present adjacent to site.

Receptor Category	Principal Receptor	Receptor present?	Detail
Controlled waters	Surface waters	No	Surface waters are remote from the site, in excess of 500m distance. Wrigley Brook culvert adjacent to site.
	Groundwater	Yes	Site over superficial and bedrock Secondary A Aquifer.
Sensitive ecosystems and species	Current site	No	Site is not currently within, or proposed to form, a designated environmentally sensitive area (e.g. SSSI, RAMSAR, AONB, SPA, SAC)
	Developed site	No	
Property	Soft landscaping (current)	Yes	Trees present on site.
	Soft landscaping (proposed)	Yes	No private gardens proposed, but trees to largely remain, with other areas of soft landscaping proposed.
	Building materials	No	Concrete classification to be assessed under the geotechnical investigation.

Table 4-B: Receptor assessment

4.6 Pathway Assessment

4.6.1 The following table summarises the generic human health pathway assessment for the site, assuming a range of contaminant sources within the underlying soils. Source-specific pathways are considered within the iCSM in subsequent report sections.

Human Health Exposure Pathway	Public Open Space (current)	Residential land without private gardens (proposed)	Construction operatives	Adjacent Site Users
Ingestion, inhalation and dermal contact with soils and dusts	✓	✓	✓	✓ (inhalation only)
Ingestion, inhalation and dermal contact with site derived dusts indoors	✗	✓	✓	✗
Ingestion of home-grown vegetables	✗	✗	✗	✗
Inhalation of vapours in outside spaces	✓	✓	✓	✓
Intrusion and inhalation of vapours indoors	✗	✓	✓	✗
Accumulation and Inhalation of ground gas in enclosed structures	✗	✓	✓	✗
Permeation into below-ground drinking water pipes	✗	✓	✗	✗

Table 4-C: Generic pathway assessment

4.6.2 The following table summarises generic pathways for the site which could be viable for the identified controlled water receptors, given our understanding of the hydrogeological model and assuming a range of contaminants in the sub-surface.

Controlled Water Exposure Pathways	Current Setting	Proposed Setting	Mechanism
Site characteristics			
Leaching via infiltration through unsurfaced areas, and surface run-off	✓	✓	Mobilisation
Leaching via infiltration through cracks/joints in hardstanding areas and drainage infrastructure	✗	✓	Mobilisation
Leaching via saturation from groundwater flooding and shallow/perched groundwater bodies	✓	✓	Mobilisation
Infiltration through sustainable drainage systems	✗	?	Mobilisation
Preferential lateral pathways (e.g. underground services)	✗	✓	Migration
Preferential vertical pathways (e.g. piling, vibro-stone columns)	✗	?	Migration
Hydrogeological characteristics			
Vertical migration through permeable strata into shallow aquifers and perched groundwater bodies	✓	✓	Migration
Vertical migration through permeable strata into sensitive aquifers at depth	✗	✗	Migration
Lateral migration within shallow and perched groundwater bodies into surface waters	✗	✗	Migration

Table 4-D: Generic pathway assessment

4.7 Initial Conceptual Site Model (iCSM)

4.7.1 The table below presents our approach to the assessment of risks associated with PCLs. The categories below are based upon the definitions within CIRIA C552 (2001), with the addition of a 'negligible likelihood' scenario, which is to be used where there is no realistic scenario in which harm could occur.

4.7.2 The initial conceptual site model (iCSM) is presented within the following tables overleaf.

		Consequence of harm			
		Severe	Medium	Mild	Minor
Probability of harm	High likelihood	Risk: Very high (high – severe)	Risk: High (high – medium)	Risk: Moderate (high – mild)	Risk: Moderate/Low (high – minor)
	Likely	Risk: High (likely – severe)	Risk: Moderate (likely – medium)	Risk: Moderate/Low (likely – mild)	Risk: Low (likely – minor)
	Low Likelihood	Risk: Moderate (low – severe)	Risk: Moderate/Low (low – medium)	Risk: Low (low – mild)	Risk: Very low (low – minor)
	Unlikely	Risk: Moderate/Low (unlikely – severe)	Risk: Low (unlikely – medium)	Risk: Very low (unlikely – mild)	Risk: Very low (unlikely – minor)
	Negligible Likelihood	Risk: Low (negligible – severe)	Risk: Very Low (negligible – medium)	Risk: Very Low (negligible – mild)	Risk: Negligible (negligible – minor)

Table 4-E: iCSM Risk Ratings

RECEPTOR: PROPOSED END USERS				
Potential Source	Contaminants of Concern	Pathway	Tier 1 Risk Assessment (probability of harm x consequence)	Discussion
Made Ground of unknown origin (associated with historic site development phases)	Metals, PAHs, TPH, phenol	Ingestion, inhalation and contact with soils, dusts and vapours	Risk: Moderate (likely – medium)	Elevated levels of inorganic and organic contaminants could be present in the Made Ground deposits due to its origin and composition (e.g. potentially containing uncontrolled demolition materials), and due to unknown historical activities and incidents on site (such as through the storage and use of fuels and chemicals).
	Asbestos	Inhalation of dusts	Risk: Moderate (likely – medium)	Asbestos could be present in uncontrolled demolition material within the Made Ground
Historic Mills/Works	Metals, PAHs, TPH, phenol	Ingestion, inhalation and contact with soils, dusts and vapours	Risk: Moderate/Low (low – medium)	Nearest historic mill/works recorded 50m south of the site. Possible uncontrolled use of chemicals and pollution incidents/release of chemicals into soils.
	Asbestos	Inhalation of dusts	Risk: Moderate/Low (low – medium)	Asbestos could be present in uncontrolled demolition material within the Made Ground following decommissioning of mills/works.
Historical infilled ground (including reservoirs)	Metals, PAHs, TPH, phenol	Ingestion, inhalation and contact with soils, dusts and vapours	Risk: Moderate/Low (low – medium)	Nearest area of infilled ground associated with former Wrigley Brook recorded 20m west of site. Presents a possible risk to the site.
	Permanent Ground Gases (CH ₄ & CO ₂)	Migration through the sub-surface into enclosed spaces	Risk: Low (unlikely – medium)	Wrigley Brook (nearest to site) unlikely to have been infilled with significant thickness and quantities of putrescible material. Whilst unclear from the 1850 mapping whether the ground recorded 43m west of the site has been infilled, given its age and size, it is unlikely to present a risk to the site. 8 No. accounts of infilled ground likely attributed to former reservoirs. Whilst considered a potential source of contamination, the reservoirs are typically limited in size and would have been relatively shallow. Furthermore, all were infilled between the early 1900s to 1990s. Therefore, the source generation potential is considered to be low. In addition, the reservoirs are likely to have been lined, and surrounding natural soils in the area comprise interbedded clay/gravel/sand soils of the Glaciofluvial Deposits and Devensian Till which will severely restrict direct migration towards the site.

Table 4-F: iCSM – Proposed End Users

RECEPTOR: CONSTRUCTION WORKERS				
Potential Source	Contaminants of Concern	Pathway	Tier 1 Risk Assessment (probability of harm x consequence)	Discussion
Made Ground	Asbestos fibres and ACMs	Inhalation of dusts	Risk: Moderate (likely – medium)	If present, asbestos in soils can present an acute risk to construction workers, particularly during the enabling works phases. Very low and trace concentrations often pose a low risk if appropriate controls are put in place.
All other contamination sources, excluding asbestos	Metals, PAHs, TPHs	Ingestion, inhalation and contact with soils, dusts and vapours	Risk: Low (low – mild)	No gross contamination of high-risk contaminants anticipated (e.g. cyanide, benzene, and vinyl chloride). Standard PPE and hygiene protocols for working on brownfield sites are likely to be sufficient to the mitigate risk.

Table 4-G: iCSM – Acute Exposure to Construction Workers

RECEPTOR: ADJACENT SITE USERS FOLLOWING COMPLETION				
Potential Source	Contaminants of Concern	Pathway	Tier 1 Risk Assessment (probability of harm x consequence)	Discussion
All identified potential contaminant sources	Metals, PAHs, TPH, (S)VOCs, Asbestos	Ingestion, inhalation and contact with soils, dusts and vapours	Risk: Low (unlikely – medium)	Based on the exposure pathways that would be present from the developed site, and on the anticipated levels of contamination, it is considered unlikely that a pollutant linkage could pose an unacceptable risk to off-site receptors.

Table 4-H: iCSM – Chronic Exposure to Adjacent Site Users

RECEPTOR: ADJACENT SITE USERS DURING THE CONSTRUCTION PHASE				
Potential Source	Contaminants of Concern	Pathway	Tier 1 Risk Assessment (probability of harm x consequence)	Discussion
Asbestos fibres and ACMs within the Made Ground	Asbestos	Inhalation of dusts	Risk: Moderate/Low (low – medium)	Potential risk associated with generation of air-borne asbestos fibres and dust during construction main earthworks phase. Whilst there is a low likelihood of harm occurring due to the effect of fresh-air dilution, the risk cannot be discounted at this stage.
All other potential contaminant sources	Metals, PAHs, TPH	Ingestion, inhalation and contact with soils, dusts and vapours	Risk: Low (unlikely – medium))	Unlikely to pose a viable risk to off-site receptors.

Table 4-I: iCSM – Acute Exposure to Adjacent Site Users

RECEPTOR: PROPOSED PLANTING				
Potential Source	Contaminants of Concern	Pathway	Tier 1 Risk Assessment (probability of harm x consequence)	Discussion
Contaminants within topsoil and the shallow sub-surface	Metals, pH and inorganics	Direct contact and root uptake	Risk: Very low (low – minor)	Elevated levels of phytotoxic contaminants may be present; however, a precursory review during the site walkover did not show any significant barren areas, signs of poor growth, or evidence of significant vegetative stress.

Table 4-J: iCSM – Phytotoxic Risk to Proposed Planting Scheme

RECEPTOR: CONTROLLED WATERS				
Potential Source	Contaminants of Concern	Pathway	Tier 1 Risk Assessment (probability of harm x consequence)	Discussion
All potential contaminant sources identified	Various	Leaching and vertical migration (Groundwater)	Risk: Moderate/Low (low – medium)	Possible risk from onsite Made Ground contamination to the underlying secondary A superficial aquifer. Devensian Till will typically act as an effective aquitard to further migration into the underlying Secondary A bedrock aquifer.

Table 4-K: iCSM – Controlled Waters Risk

4.7.3 The risk to identified receptors from the proposed developments under the planning regime are assessed under a ‘minimal risk’ approach. Whereas, the risk to receptors under the current and continued use of the site is dealt with under the regulatory framework of the Part IIA regime, where Soiltechnics consider if there is a reasonable chance of a ‘significant potential of significant harm’ (SPOSH) occurring. This is not equivalent to a due diligence assessment for the continued use of the site to aid in determining potential contaminated land liabilities or land valuations.

4.7.4 The following table sets out the risk to current users considering a SPOSH approach:

Receptor	Potential Source	Contaminants of Concern	Pathway	Preliminary Assessment: Is their reasonable evidence of SPOSH?	Discussion
Human Health (Current and adjacent site users)	All potential contaminant sources identified above	Various Contaminants	Inhalation, ingestion and contact with soils, dusts and vapours.	No	Whilst potential contamination sources have been identified, Soiltechnics have not encountered any evidence which indicates there could be a significant possibility of significant harm to human health occurring from contamination on site.
Controlled Waters (Surface water and groundwater)	All potential contaminant sources identified above	Various Contaminants	Mobilisation and migration	No	Whilst potential contamination sources have been identified, Soiltechnics have not encountered any evidence which indicates there could be a significant possibility of significant harm to controlled waters occurring from contamination on site.
Ecosystems	All potential contaminant sources identified above	Various Contaminants	Direct contact and root uptake	No	The site does not fall within a relevant designation for environmentally sensitive land (e.g. SSSI, NRA, Ramsar).
Property	All potential contaminant sources identified above	Various Contaminants	Various pathways	No	Through undertaking the desk study, no evidence of potentially significant harm occurring to property has been identified.

Table 4-L: iCSM – Current Site Risks (Part IIA)

4.8 Preliminary Risk Assessment Conclusions and Recommendations

4.8.1 In summary, the PRA has not highlighted any potential contaminant linkages (PCL) which could pose a significant possibility of significant harm under the current land use. In terms of the proposed development scheme, a minimal risk approach applies, and PCLs have been identified which require further consideration.

Receptor Category	Principal Receptor	PCL Present Requiring Further Investigation?
Human health	Current site users	No
	Proposed site users (soils, dusts, and vapour)	Yes
	Proposed site users (permanent ground gas)	No
	Proposed site users (radon)	No
	Adjacent site users and off-site members of the public (during the long-term use of the site)	No
	Adjacent site users and off-site members of the public (during the construction phase)	Yes – Asbestos risk only
	Construction operatives	Yes – Asbestos risk only
Controlled waters	Surface waters	No
	Groundwater	Yes
Property	Soft landscaping (current)	No
	Soft landscaping (proposed)	No
	Potable infrastructure	No
	Building materials	To be considered by the specifier

Table 4-M: Receptors at Risk Under the Proposed Scheme

5 Ground Investigation

5.1 Objectives

- 5.1.1 The ground investigation scope and location of exploratory holes was determined by Soiltechnics Ltd, based upon our overall brief outlined in Section 1.
- 5.1.2 The objectives of the fieldwork were to:
- i) Establish ground and groundwater conditions at the site.
 - ii) Obtain samples for subsequent laboratory testing.

5.2 Fieldwork summary

- 5.2.1 Fieldwork was undertaken on 28th November 2023.
- 5.2.2 A summary of the works completed is set out in the table below, along with the location of the exploratory logs. An exploratory hole location plan is presented within Appendix A.

Exploratory Hole Logs	Method	Qty	Final Depth Range (m bgl)	Comments
Appendix B	Dynamic windowless sampling boreholes	7	2.00 – 3.00	Boreholes terminated due to refusal on suspected bedrock.

Table 5-A: Summary of fieldwork undertaken

- 5.2.3 All soils encountered were described in accordance with BS EN ISO 14688 “Identification and Classification of soil”.

5.3 Unexploded Ordnance (UXO)

- 5.3.1 In the absence of a UXO Risk Assessment in accordance with CIRIA C681, Soiltechnics commissioned a UXO specialist to undertake a preliminary risk review for the purpose of the ground investigation works phase only.
- 5.3.2 The review concluded that the UXO risk to the ground investigation works is low within the site boundary and therefore no special precautions were required.

5.4 Sampling

- 5.4.1 During the fieldwork, sampling of soil, rock and groundwater for geotechnical purposes has been undertaken in accordance with BS EN ISO 22475-1 “Geotechnical Investigation and testing – sampling by drilling and excavation and groundwater measurements”.
- 5.4.2 Samples collected for chemical analysis have been taken and handled in accordance with BS ISO 18400-105:2017 “Soil quality — Sampling Part 105: Packaging, transport, storage and preservation of samples”.
- 5.4.3 Various sampling and sub-sampling methodologies have been adopted as appropriate, with the primary aim of obtaining the highest quality sample class practicable.
- 5.4.4 Untested chemical and geotechnical samples will be held for a period of 4 weeks from the date of the first report issue, after which they will be disposed of.

5.5 In-situ Testing

5.5.1 The following table summarises the field testing carried out. The results are summarised on individual exploratory hole logs where appropriate and detailed within the Appendices indicated.

Tests	Qty	Applicable standard / guidance	Location of Results
Standard penetration test (SPT)	11	BS EN ISO 22476-3	Included within logs Detailed in Appendix C
Pocket penetrometer	31	Manufacturer's instructions	Included within logs Detailed in Appendix C
Variable head permeability	2	BS EN ISO 22282-2	Detailed in Appendix D Error! Reference source not found.

Table 5-B: Summary of field testing undertaken

5.6 Investigation Constraints

No significant constraints were encountered which limited the design of the scope of works or the undertaking of fieldworks.

6 Laboratory testing

6.1 Overview

- 6.1.1 Samples obtained from exploratory holes were sent to independent accredited laboratories for geotechnical and chemical testing.

6.2 Geotechnical Testing

- 6.2.1 The geotechnical testing schedule was prepared by Soiltechnics using a targeted and judgemental approach, based upon the scheme proposals and our initial understanding of the ground conditions.
- 6.2.2 Geotechnical laboratory test results are presented in Appendix E and the total number of geotechnical tests undertaken is summarised below:

Qty	Test
2	Moisture content
2	Liquid Limit
1	Particle size distribution (sieving above 63 micron)
3	BRE SD1 Suite D

Table 6-A: Summary of geotechnical laboratory testing

6.3 Chemical Testing

- 6.3.1 The chemical testing schedule was prepared by Soiltechnics using a targeted and judgemental approach, based upon the initial conceptual site model and fieldwork observations. This is further elaborated on within subsequent report sections.
- 6.3.2 Chemical laboratory test results are presented in Appendix F, and the total number of chemical tests undertaken is summarised below:

Sample Type	Qty	Testing	Suite Name
Soils	5	Basic Classification Suite [metals, cyanides, PAHs, phenol, banded TPH & asbestos]	Basic Classification Suite

Table 6-B: Summary of chemical laboratory testing

7 Ground Investigation Findings

7.1 Ground Model

7.1.1 The tables below present our generalised interpretation of geological and hydrogeological conditions at the site. Unless otherwise stated in subsequent interpretive report sections, this represents the adopted ground model.

7.1.2 Further detail about the ground conditions encountered is provided in the relevant sub-sections below.

Stratum	Brief description	Top depth range (m bgl)	Adopted model top depth (m bgl)	Thickness (m)
Topsoil (Made Ground)	Dark brown sandy gravelly clay with gravels of brick, ceramic, concrete, clinker and glass fragments	G.L.	G.L.	0.3 - 0.45
Made Ground (WS04 only)	Clayey gravel of clinker, ceramic, wood and brick with glass fragments.	0.25	-	0.3
Devensian Till	Firm to stiff orangish brown mottled grey slightly gravelly slightly sandy silty CLAY with localised silty SAND (WS02 & WS07)	0.3 – 0.55	0.35	0.68 - 2.3
Weathered Pennine Lower Coal Measures Formation	Stiff brown slightly sandy slightly clayey silty GRAVEL	1.7 to 2.6	2.0	ND

Table 7-A: Ground Model

Type	Stratum	Groundwater depth and range	Comments
Perched groundwater	Weathered Pennine Lower Coal Measures Formation	1.6 – 2.0	Groundwater encountered at 2.0m depth, rising to 1.6m upon completion.
		2.4	Groundwater seepage in base of Devensian Till in WS02

Table 7-B: Hydrogeological Model

7.2 Topsoil – Made Ground

7.2.1 Topsoil – Made Ground was encountered in all exploratory positions, observed to comprise grass onto firm dark brown sandy gravelly clay. Gravels consisted of glass shards and large fragments of brick, concrete, clinker and ceramic. The base of the unit ranged from 0.25m to 0.45m bgl.

7.2.2 A photograph of topsoil deposits encountered is presented below.

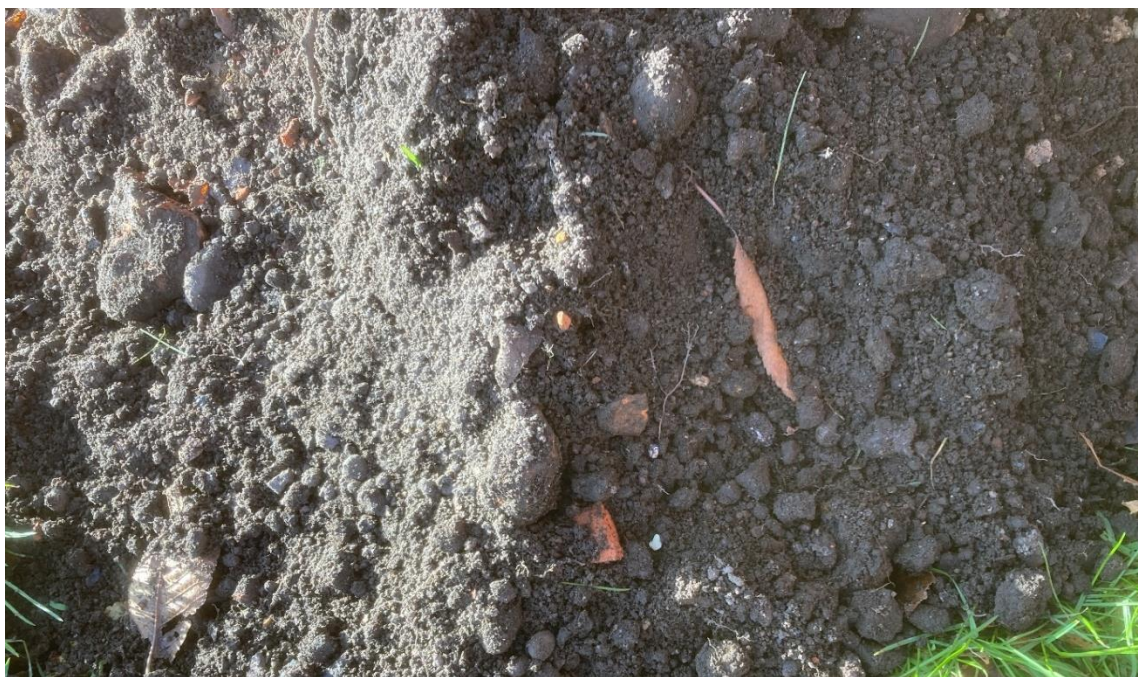


Figure 7-A: Topsoil-Made Ground deposits taken from WS03

7.3 Made Ground

- 7.3.1 A 300mm layer of clayey gravel of clinker, brick, ceramic and glass was encountered underlying topsoil within WS04 (south centre of site) only.

7.4 Devensian Till

- 7.4.1 Devensian Till was found at all exploratory holes. The base of the unit was 1.7m to 2.6m BGL and ranged from 0.45 and 1.8m thick.
- 7.4.2 Devensian Till typically comprised cohesive orangish brown gravelly sandy silty clay. Deposits of silty sand were encountered in boreholes WS02 and WS07, below depths of 1.2m and 1.45m respectively.
- 7.4.3 A photograph of the Devensian Till encountered is presented below.



Figure 7-B: Devensian Till deposits taken from WS04

7.5 Weathered Pennine Lower Coal Measures Formation

- 7.5.1 Weathered deposits of the Pennine Lower Coal Measures Formation was observed across all exploratory positions, with top depths ranging from 1.7m (WS03) to 2.6m BGL (WS02)
- 7.5.2 Both granular and cohesive deposits were encountered across the site, with sand, gravel, silt and clay observed. Typically, deposits were noted as a gravel of siltstone.
- 7.5.3 A typical photograph of the Weathered Pennine Lower Coal Measures Formation is presented below.



Figure 7-C: Weathered Pennine Lower Coal Measures Formation deposits in WS05

7.6 Groundwater

- 7.6.1 A summary of the groundwater level data obtained during the fieldworks phase is presented below.

Exploratory hole ID	Groundwater observation
WS02	Groundwater encountered at 2.4m depth, remained constant on completion.
WS04	Groundwater encountered at 2.0m depth, filling borehole to 1.6m depth on completion.

Table 7-C: Summary of groundwater observations during the fieldworks

- 7.6.2 Groundwater encountered is likely to be representative of perched water in basal deposits of Till.
- 7.6.3 Groundwater levels are expected to vary seasonally and in response to recent weather conditions. Long term monitoring will provide a reasonable quantification of such variation.

7.7 Evidence of Possible Contamination

- 7.7.1 During the ground investigation works, no significant visual or olfactory evidence of contamination was noted, except for the presence of anthropogenic materials contained within the Made Ground (glass, brick, concrete, ceramic, clinker-like material).

7.8 Obstructions and Instability

- 7.8.1 The table below summarises the obstructions and instability encountered that affected the progress of the investigation works.

Strata / Area	Depth range (m bgl)	Issue	Description
Suspected bedrock	2.00 – 3.00	Obstructions	Hard stratum. Suspected bedrock encountered, leading to drill refusal.

Table 7-D: Summary of obstructions encountered during the investigation works

7.8.2 Instability of borehole sides was not experienced during the investigation.

8 Geotechnical Discussion

8.1 Scheme Overview

8.1.1 The following assessments are made on the investigatory data presented in the preceding sections of this report and are made with reference to the specific nature of the development. Should scheme proposals change then it is recommended that the validity of the conclusions of this report in relation to the revised scheme are checked.

8.1.2 The scheme comprises the construction of a two-storey residential development, containing 8 No. 1-bedroom flats with a central stair core, ancillary space and soft landscaping.

8.1.3 In view of the scheme proposals, the geotechnical elements considered in this report are outlined below:

- Building foundations
- Drainage
- Floor slab

8.2 Geotechnical Category

8.2.1 In accordance with BS EN1997-1:2004 + A1:2013 (Eurocode 7), the project is designated as Geotechnical Category 2. This category includes projects with *conventional types of structures and foundations with no exceptional risk, or difficult ground or loading conditions*. Furthermore, *routine design procedures* are appropriate.

8.2.2 It should be noted that this Report does not constitute a Geotechnical Design Report (GDR) as defined in Eurocode 7. Accordingly, a GDR should be prepared by the designer during the detailed design phase

8.3 Key Geotechnical Issues

8.3.1 In view of the ground conditions, the following list summarises the key geotechnical issues that may impact the scheme and will therefore need to be appropriately managed during the lifecycle of the project:

- Made Ground
- Groundwater
- Trees and other vegetation

8.4 Made Ground

8.4.1 The near surface Made Ground soils are unsuitable for supporting concentrated foundation loads. Accordingly, foundations should extend, as a minimum, through such deposits.

8.5 Groundwater

8.5.1 It is anticipated that perched groundwater may be encountered during foundation excavations, with isolated deposits recorded between depths of 2.0-2.4m in two of the seven boreholes.

8.5.2 Groundwater levels are expected to vary seasonally and in response to weather events.

- 8.5.3 The inflow of groundwater into excavations may lead to instability and excavation collapse, albeit this was not experienced during borehole investigations.

8.6 Trees and Vegetation

- 8.6.1 There are a number of trees within close proximity of the proposed development and below the proposed development footprint, which may impact upon the foundation design depth.
- 8.6.2 There are noted to be a 2 No. stumps of an unknown species within the approximate building footprint and a high-water demand oak tree immediately on the northwestern elevation of the footprint. Clay soils beneath the site are recorded as low plasticity, and following NHBC guidance, foundation excavations in the immediate vicinity of the Oak would need to achieve depths of up to 2.35m bgl to reach moisture stable soils based on its existing height of c.8m (assuming it will be removed to facilitate development). Excavations could be stepped as foundations extend from the tree into areas of less influence. Where competent rock (non-shrinkable) is encountered at shallower depth, foundations can be located within such deposits and do not need to extend to depth.
- 8.6.3 Elsewhere across the proposed development footprint immature/juvenile assumed medium water demand species (<3-4m in height) are noted. NHBC guidance recommends that foundations are extended to a minimum depth of 1.5m bgl in the immediate vicinity of such trees. Again, excavations could be stepped as foundations extend from the tree into areas of less influence.
- 8.6.4 We recommend detailed assessment of foundation depths based on the Arboricultural assessment is completed by the project structural engineers. Consideration should be given to determining the species of the trees which have already been felled in the footprint of the development and the impact such vegetation could have on foundation depths in such areas. In addition, heave protection should be incorporated into foundation excavations following NHBC guidance.
- 8.6.5 Any future planting schemes should consider the effect that the new trees could have on foundations when they reach maturity.

8.7 Building Foundation Strategy

- 8.7.1 In view of the key geotechnical issues discussed above and anticipated loadings the following foundation types are considered suitable for the project;

- Spread foundations

8.8 Geotechnical Parameters

- 8.8.1 Characteristic values of geotechnical parameters have been derived, in accordance with Eurocode 7. The following tables present the recommended characteristic values for the strata encountered:

Variable	Characteristic value	Derivation
Weight density above water table, γ_b (kN/m ³)	18	BS8004:2015 Figure 1
Undrained shear strength, c_u (kN/m ²)	75	In situ testing
Undrained deformation modulus, E_u (MN/m ²)	37.5	$E_u/c_u = 500$ from Jamiolkowski et al (1979)

Table 8-A: Summary of characteristic geotechnical parameters – Devensian Till (cohesive)

Variable	Characteristic value	Derivation
Weight density above water table, γ_b (kN/m ³)	20	BS8004:2015 Figure 1
Weight density below water table, γ_b (kN/m ³)	20	BS8004:2015 Figure 2
Undrained shear strength, c_u (kN/m ²)	150	In situ testing
Undrained deformation modulus, E_u (MN/m ²)	75	$E_u/c_u = 500$ from Jamiolkowski et al (1979)

Table 8-B: Summary of characteristic geotechnical parameters – weathered Pennine Lower Coal Measures (cohesive)

8.9 Spread Foundations

- 8.9.1 The soils underlying the proposed foundations are of low volume change potential when classified in accordance with NHBC Standards, Chapter 4.2. Whilst it is acknowledged that deposits of silty sand have been encountered locally (WS02 & WS07), the majority of natural soils across the site exhibit cohesion. Accordingly, and in isolation of other considerations affecting foundation depth, foundations should be founded at a minimum depth of 0.75m BGL to penetrate the zone of shrinkage and swelling caused by seasonal wetting and drying.
- 8.9.2 Existing trees and stumps are currently present on site, including a high water demand oak immediately northwest of the proposed building and 2 No. stumps within the building footprint. Guidance on depths of foundations due to the effects of vegetation at the site is provided in Section 8.6. If practicable, foundation excavations can be ‘stepped’ to achieve minimum foundation depths in areas outside the zone of influence of such vegetation.
- 8.9.3 Ultimate limit state analyses (bearing capacity) have been undertaken in accordance with the approach outlined in Annex D of Eurocode 7 to derive the following design bearing resistances. Note that we have included bearing resistances for any foundations which could be located in deeper weathered bedrock deposits in areas influenced by vegetation at the site:

Type	Width (m)	Founding depth (m BGL)	Founding stratum	Bearing resistance	
				Combination 1	Combination 2
Strip	0.45	0.75	Devensian Till	400kNm ²	290kNm ²
	0.6			400kNm ²	290kNm ²
	0.9			400kNm ²	290kNm ²
	0.45	1.7 (min depth of such deposits at the site)	Weathered Lower Pennine Coal Measures	815kNm ²	590kNm ²
	0.6			815kNm ²	590kNm ²
	0.9			815kNm ²	590kNm ²

Table 8-C: Summary of foundation ultimate limit state analyses

- 8.9.4 Serviceability limit state (SLS) has been assessed by undertaking settlement analyses in accordance with the approach outlined in Annex F of Eurocode 7 and adopting the following variables:

Stratum	Variable	Value adopted	Derivation
Devensian Till	Coefficient of volume compressibility, m_v (m ² /MN)	0.2	Literature/Insitu testing
	Geological factor, μ_g	0.5	Literature
Weathered Lower Pennine Coal Measures	Coefficient of volume compressibility, m_v (m ² /MN)	0.15	Literature/Insitu testing

Stratum	Variable	Value adopted	Derivation
	Geological factor, μ_g	0.5	Literature

Table 8-D: Key geotechnical variables used in settlement analyses

- 8.9.5 The proposed loads are not known at this stage. Accordingly, the maximum bearing pressures have derived to ensure settlement is less than 25mm, which is typically adopted as a maximum tolerable limit. The following table summarises the results.

Foundation type	Width (m)	SLS bearing resistance
Strip (0.75) in cohesive Till	0.45	*290kNm ²
	0.6	*290kNm ²
	0.9	210kNm ²
Strip (1.7m) in Weathered bedrock	0.45	350kNm ²
	0.6	325kNm ²
	0.9	295kNm ²

*SLS exceeds Combination 2 ULS values, therefore SLS has been limited in line with such values to prevent failure

Table 8-E: SLS bearing resistance to ensure total settlement to <25mm

- 8.9.6 For ease, a blanket bearing resistance of 210kN/m² could be adopted for use in foundation design across the site.
- 8.9.7 Differential settlement is dependent upon the variation of loads imposed on the ground and consistency of the foundation supporting ground. Assuming foundation loads are reasonably uniform and in line with the values outlined above, it is estimated that differential settlement is unlikely to exceed say 15mm. It is likely settlement will be substantially achieved within say 10 years of construction.
- 8.9.8 It is anticipated that excavations to founding levels will encounter both fine grained and coarse grained soils. Whilst these soils will ultimately generate similar amounts of total settlement under applied foundation loads, the rate at which settlement will occur will differ. Granular soils will produce settlements almost immediately after loads are applied whereas fine grained soils continue to consolidate several years after completion of construction. Accordingly, traversing mixed soil types will be subject to differential settlement. To minimise the effects of such movement it is recommended that foundations are reinforced.
- 8.9.9 As outlined in Section 8.6, we recommend heave protection measures are incorporated into foundation excavations following NHBC guidance.
- 8.9.10 It should be noted that foundation design is iterative. Accordingly, a final check of ultimate and serviceability limit states should be undertaken following confirmation of foundation size and loads.

8.10 Residential Ground Floor Construction

- 8.10.1 As the building is close to existing major vegetation at the site (or where ground floors are elevated requiring in excess of 600mm of fills) then it is recommended that suspended ground floors are adopted with a sub floor void determined in accordance with NHBC Standards.

8.11 Aggressiveness of the Ground to Buried Concrete

- 8.11.1 The aggressiveness of the ground with respect to buried concrete has been assessed in accordance with Building Research Establishment Special Digest 1: Concrete in Aggressive Ground Third Edition (2005).
- 8.11.2 The site is interpreted to be a brownfield site where pyrite is likely to be present.
- 8.11.3 Laboratory testing has been undertaken on soil samples obtained from the investigation works.
- 8.11.4 The proposed foundations will extend into previously undisturbed soils that contain pyrite. Excavating to form a foundation does not create 'disturbed' ground as defined in BRE SD-1. However any arisings resulting from foundation excavation or replacement piling for example would be classified as 'disturbed' ground. Accordingly, the amount of oxidizable sulphides has also been considered when categorising the strata.
- 8.11.5 The classification of the strata is tabulated below:

Stratum	Disturbed / Undisturbed	Design sulphate class	Aggressive chemical environment for concrete class
Made Ground	Disturbed	DS-1	AC-1s
Devensian Till	Disturbed	DS-1	AC-1s
	Undisturbed	DS-1	AC-1s

Table 8-F: Summary of the aggressiveness of the ground to buried concrete

- 8.11.6 It should be noted that while a classification for deposits of weathered bedrock has not been determined, the classification for Till deposits is likely to be representative based on our experience.

8.12 Drainage

- 8.12.1 In situ permeability testing has been undertaken at the site in accordance with BS EN ISO 22282 Geotechnical investigation and testing – Geohydraulic testing (2012). The results are presented as Appendix D and summarised below:

Exploratory hole ID	Stratum tested	Permeability (m/s)
WS05 (Cycle 1)	Devensian Till	9.27×10^{-7}
WS05 (Cycle 2)		1.26×10^{-6}

Table 8-G: Summary of in situ permeability test results in accordance with BS EN ISO 22282

- 8.12.2 The near surface Devensian Till deposits contain a notable proportion of clay and are calculated to be very low permeability and therefore effectively impermeable for the purposes of drainage design. On this basis, disposal of stormwater via a soakaway is not considered viable.
- 8.12.3 It is likely that connection to existing drainage infrastructure within the adjacent highways is explored as an option, or the use of deeper soakaways within bedrock deposits, which may exhibit more permeability (subject to further intensive site testing).

8.13 Suitability For Material Re-use

- 8.13.1 Significant earthworks are not anticipated to be required at the site. Soils excavated at the site are likely to be suitable for re-use as a general bulk fill. It is recommended that the soils are classified and compacted in accordance with the Specification for Highway Works Series 600.

8.14 Constructability

- 8.14.1 Under most standard contracts it is the responsibility of the Contractor to design, construct and maintain temporary works. Accordingly, the following discussion is provided for information only.
- 8.14.2 Localised perched groundwater is anticipated to be encountered during excavations to form deeper spread foundations. Flow rates are anticipated to be relatively minor and will likely not cause instability of the excavation sides. It is possible that groundwater can be controlled via conventional sump pumping techniques.
- 8.14.3 Excavations extending to depths greater than 1.7m are at an increasing risk of encountering weathered deposits of the Pennine Lower Coal Measures Formation. Should competent rock be encountered foundations can be placed directly on top of bedrock deposits, subject to sufficient 'key' into such deposits.
- 8.14.4 In the event that a soft area is located in the course of foundation excavations then excavation should continue to locate stiffer / denser soils.

9 Tier 2 Generic Quantitative Risk Assessment

9.1 Objectives

9.1.1 The objective of this generic quantitative risk assessment (GQRA) is to further assess the potential contaminant linkages (PCLs) identified by the preliminary risk assessment using the following:

- The findings of the intrusive site investigation and resulting site specific ground and hydrogeological model.
- Laboratory analysis of soils and groundwater.
- Monitoring of ground gases and vapours.

9.2 Fieldwork Observations

9.2.1 Fieldwork observations on the potential for contamination and the underlying ground conditions did not identify any new contaminant sources or significant pathway alterations to the anticipated ground model. Therefore, no PCL additions or amendments are required to be made to the CSM at this stage.

9.3 Laboratory Testing Rationale

9.3.1 Laboratory testing has been scheduled by targeting potential contaminant linkages identified within the iCSM and observations made during fieldworks. The sampling and testing strategy is based on a judgemental approach.

9.3.2 The testing of the general Made Ground/topsoil deposits was undertaken across various locations to gain spatial coverage over the site and to characterise the strata encountered. Testing included a broad suite of analysis due to the potential for unknown contamination to be present.

9.4 Generic Assessment Criteria

9.4.1 Assessment of laboratory test data has been carried out using published generic assessment criteria (GACs). The GACs act as screening values to provide a 'trigger' to an assessor that soil concentrations above these limits might present an unacceptable risk.

9.4.2 Various GAC sources are used within this report. Key assumptions are made in the derivation of screening values in regard to their use and application, and exposure modelling is based on precautionary national scenarios. This generic approach can result in an overly conservative assessment; therefore, the assessor is required to review the outcome of the GQRA screening in the context of the site specific CSM and identified potential contaminant linkages.

9.4.3 Asbestos does not currently have published GACs which can be used for generic assessment purposes, at this stage a present / absent trigger limit has been adopted.

9.4.4 Specific details regarding the published GAC sources chosen and any parameter refinements made are summarised within Appendix G, along with the order of preference where multiple GAC sources are available. The exposure models adopted are discussed in the relevant sections below.

9.5 Human Health GQRA (soils and vapour)

9.5.1 The results of the human health screening assessment for soils and vapours are detailed in Appendix G. The following table outlines the exposure models adopted, along with summarising the outcome of each screening assessment.

Receptor	Exposure Model	Outcome
All human health receptors	Presence of asbestos	No suspected ACMs observed during fieldworks. No fibres detected through laboratory analysis.
Proposed users	Residential without plant uptake	Two samples showing arsenic and beryllium exceedances. One sample showing lead exceedance. All five samples showing PAH exceedances of benzo(b)fluoranthene and dibenz(a,h)anthracene. Three exceedances of benzo(a)pyrene.
Construction operatives	Acute occupational exposure (assumed no PPE worn)	No exceedances.
Adjacent site users and the public	Acute off-site public exposure during construction phase	No exceedances.

Table 9-A: Human health GQRA models and outcomes

9.5.2 The table below summarises the instances where contaminants have exceeded the generic screening criteria.

Receptor	Strata	Contaminant	Locations & Depths	Test Result / Range (mg/kg)	GAC (mg/kg)
Proposed users	Topsoil / Made Ground	Arsenic	WS04 0.3-0.5m and WS06 0.1-0.3m depth	43 - 120	40
		Beryllium		2.2 – 2.6	1.7
		Lead	WS04 at 0.3 – 0.5m	340	310
Proposed users		Benzo(a)pyrene	WS04 0.3-0.5m, WS05 and WS06 at 0.1 – 0.3m	8.9 – 15	5.3
		Benzo(b)fluoranthene	WS01 0.2-0.4m, WS04 0.3-0.5m	4.2 – 16	4
		Dibenzo(a,h)anthracene	WS02, WS05 and WS06 at 0.1 – 0.3m	0.45 – 1.8	0.32

Table 9-B: Human health GQRA exceedances

9.6 Proposed Site Users Risk Assessment (soils and vapour)

9.6.1 Multiple PAH exceedances and have been identified within the Topsoil deposits and localised Made Ground across the whole site within WS01, WS02, WS04, WS05 and WS06 between 0.1m and 0.5m depth. WS04 (southeast of the site) and WS06 (northwest of the site) have also shown exceedances in Arsenic, Beryllium and Lead.

9.6.2 Given the widespread elevated contaminant concentrations within the shallow Made Ground/ Topsoil deposits, it is recommended that remedial works are undertaken to render the site suitable for use.

9.6.3 Given the limited thickness of topsoil/Made Ground across the site (0.3-0.55m), it is recommended that topsoil/Made Ground is removed to natural uncontaminated formation level within proposed soft landscaping areas. These soils should be replaced with a minimum 150mm depth of clean, imported topsoil.

- 9.6.4 Topsoil/Made Ground can be left in-situ below building floor slabs which will effectively break the source-receptor linkage. Such deposits are unlikely to be suitable to provide support to hardstanding.
- 9.6.5 Should topsoil/Made Ground be encountered to depths greater than 0.6m, it is recommended that these materials are 'overdug' to natural formation, or replaced with a 600mm clean cover system.
- 9.6.6 Although elevated PAHs have been recorded, concentrations of volatile PAHs (naphthalene) and TPHs were not recorded in exceedance of adopted GAC values, therefore the risk from inhalation vapours to human health is considered low.

9.7 Construction Workers Risk Assessment

- 9.7.1 Analysis indicates that contaminant levels do not pose an acute risk to construction workers. In general, standard PPE and hygiene protocols for working on brownfield sites is considered adequate to mitigate against the potential risk from contaminants on site, and no special precautions are required.

9.8 Adjacent Site Users Risk Assessment

- 9.8.1 Based upon the laboratory results and our understanding of the site, there is not considered to be an unacceptable level of risk to adjacent site users, both during construction and following completion of the development.

9.9 Risks to Soft Landscaping Vegetation

- 9.9.1 To help determine the risk to vegetation from potentially phytotoxic contaminants, screening values presented within the British Standard 'Specification for Topsoil' (BS 3882:2015), and the Environment Agency online guidance 'Sewage Sludge in Agriculture: Code of Practice' have been adopted.
- 9.9.2 Analysis indicates that the near-surface soils may contain metal concentrations (arsenic and lead) at levels which could pose a potentially phytotoxic risk to vegetation in the proposed planting scheme. Providing a clean cover system is installed to mitigate against the human health risks already identified, this will also serve to sever the pathway of exposure to planting, and therefore the risk can be discounted from further consideration.

9.10 Water Supply Pipes

- 9.10.1 A full site investigation as set out in the UK Water Industry Research (UKWIR) document '*Guidance for the selection of Water supply pipes to be used in Brownfield sites*' has not been undertaken.
- 9.10.2 The UKWIR document advises a trigger concentration of 0.125mg/kg for the 'extended VOC (volatile organic compounds) suite', which includes the PAH (polycyclic aromatic hydrocarbons) suite that has been included in the soil analysis during this investigation.
- 9.10.3 The maximum summed concentration of PAH congeners from individual samples obtained from the site at likely pipe depths (0.50m to 1.50m bgl) exceeds the trigger concentration of 0.125mg/kg in all five of the samples tested, and on this basis the installation of protective barrier-pipes in below ground water infrastructure is recommended as a precaution, unless service trenches are over-dug and backfilled with suitable clean materials. It is noted that Topsoil/Made Ground was only present to maximum depths of 0.55m bgl, as such pipelines are likely to be located in clean natural soils.

9.10.4 In all instances, it is advised to consult the water company for advice to determine if protective pipe is necessary or if further assessment and investigation works are warranted. Irrespective of the assessment made here, water companies may insist on barrier pipe being installed. Once the initial consultation has taken place, Soiltechnics can support you in any further assessments that may be required.

9.11 Updated Conceptual Site Model (uCSM)

9.11.1 Following on from the discussions above, an updated conceptual site model has been tabulated overleaf.

9.11.2 The table below presents our approach to the assessment of risks associated with potential contaminant linkages. The categories are based upon the definitions within CIRIA C552 (2001), with the addition of a 'negligible likelihood' scenario, which is to be used where there is no realistic scenario in which harm could occur.

		Consequence of harm			
		Severe	Medium	Mild	Minor
Probability of harm	High likelihood	Risk: Very high (high – severe)	Risk: High (high – medium)	Risk: Moderate (high – mild)	Risk: Moderate/Low (high – minor)
	Likely	Risk: High (likely – severe)	Risk: Moderate (likely – medium)	Risk: Moderate/Low (likely – mild)	Risk: Low (likely – minor)
	Low Likelihood	Risk: Moderate (low – severe)	Risk: Moderate/Low (low – medium)	Risk: Low (low – mild)	Risk: Very low (low – minor)
	Unlikely	Risk: Moderate/Low (unlikely – severe)	Risk: Low (unlikely – medium)	Risk: Very low (unlikely – mild)	Risk: Very low (unlikely – minor)
	Negligible Likelihood	Risk: Low (negligible– severe)	Risk: Very Low (negligible– medium)	Risk: Very Low (negligible– mild)	Risk: Negligible (negligible– minor)

Table 9-C: CSM Risk Ratings

RECEPTOR: PROPOSED END USERS				
Potential Source	Contaminants of Concern	Pathway	Tier 2 Risk Assessment (probability of harm x consequence)	Discussion
Made Ground of unknown origin (associated with historic site development phases)	Metals, PAHs, TPH, phenol	Ingestion, inhalation and contact with soils, dusts and vapours	Risk: Moderate (likely – medium)	Elevated PAHs were detected in samples of shallow topsoil/Made Ground sitewide alongside elevated levels of Arsenic, Beryllium and Lead within WS04 (southeast) and WS06 (northwest) compared to adopted GACs. Impacted topsoil/Made Ground should be excavated and replaced with clean imported topsoil in areas of proposed soft landscaping.
	Asbestos	Inhalation of dusts	Risk: Low (unlikely - mild)	Asbestos was not recorded within 5No. samples analysed from across the site.

Table 9-D: uCSM – Proposed End Users

RECEPTOR: CONSTRUCTION WORKERS				
Potential Source	Contaminants of Concern	Pathway	Tier 2 Risk Assessment (probability of harm x consequence)	Discussion
Made Ground	Asbestos fibres and ACMs	Inhalation of dusts	Risk: Low (unlikely – mild)	Asbestos was not recorded within 5No. samples analysed from across the site. Very low and trace concentrations often pose a low risk if appropriate controls are put in place.

Table 9-E: uCSM – Acute Exposure to Construction Workers

RECEPTOR: ADJACENT SITE USERS DURING THE CONSTRUCTION PHASE				
Potential Source	Contaminants of Concern	Pathway	Tier 2 Risk Assessment (probability of harm x consequence)	Discussion
Asbestos fibres and ACMs within the Made Ground	Asbestos	Inhalation of dusts	Risk: Low (unlikely – mild)	Asbestos was not recorded within 5No. samples analysed from across the site.

Table 9-F: uCSM – Acute Exposure to Adjacent Site Users

RECEPTOR: PROPOSED PLANTING				
Potential Source	Contaminants of Concern	Pathway	Tier 2 Risk Assessment (probability of harm x consequence)	Discussion
Contaminants within topsoil and the shallow sub-surface	Metals, pH and inorganics	Direct contact and root uptake	Risk: Low (low – mild)	Shallow sub-surface soils within WS04 and WS06 have shown elevated levels of arsenic and lead. Due to elevated levels of PAHs and inorganics across the site, it is recommended remedial works (clean cover system) are undertaken across the site, with topsoil imported for the proposed soft landscaping areas. As a result, the risk associated with contaminants in the topsoil and shallow surface can be discounted.

Table 9-G: uCSM – Phytotoxic Risk to Proposed Planting Scheme

RECEPTOR: CONTROLLED WATERS				
Potential Source	Contaminants of Concern	Pathway	Tier 2 Risk Assessment (probability of harm x consequence)	Discussion
All potential contaminant sources identified	Various	Leaching and vertical migration (Groundwater)	Risk: Low (unlikely – medium)	Elevated contamination levels have been recorded on site however low permeability Devensian Till and weathered Pennine Lower Coal Measures are expected to act as an effective aquitard to further migration of contaminants into Secondary A aquifers below the site. On completion of remedial works, impacted topsoil/Made Ground will be removed from soft landscaping areas.

Table 9-H: uCSM – Controlled Waters Risk

9.12 Risk Assessment Conclusions

- 9.12.1 The updated CSM has identified potential contaminant linkages which exceed the low-risk threshold and require further investigation, mitigation, or remediation. These are discussed in further detail below.

Contaminant Source	Receptor	Recommended Action	Discussion
Elevated PAHs, arsenic and lead within the shallow soils	Proposed end users and vegetation	Remediation	Remediation required. This could be achieved through the installation of a clean soil cover system in all soft landscaping areas (min 300mm thickness), or through the complete removal of Made Ground/Topsoil from soft landscaped areas.

Table 9-1: GQRA Risk Assessment Conclusions

- 9.12.2 A Remediation Strategy must be established to detail the measures to be taken, along with including the verification plan for all necessary works.
- 9.12.3 As the remedial requirements of the project are not inherently complex, an Options Appraisal is not considered necessary. An Options Appraisal would highlight a range of potential remedial options, and then provide a comparison of the options based on their feasibility, cost, sustainability, effectiveness, and operational requirements. This can be undertaken on request.
- 9.12.4 Once all investigations and remedial works are completed, a Verification Report will then be required. It is anticipated two Verification Reports will be required, one to cover the demolition and enabling works phase, and a subsequent report to cover the construction works phase.
- 9.12.5 The following items are considered to be outside the formal scope of a Remediation Strategy and subsequent verification works, and must be controlled by the developer and their Principal Contractor. It will be their responsibility to satisfy the appropriate regulatory bodies that mitigation works have been carried out appropriately.
- The designs and installation of radon protection measures.
 - The installation of protective barrier pipe for potable infrastructure.

9.13 Unexpected and Previously Unencountered Contamination

- 9.13.1 With the development of any site, there is a residual risk of contamination being found that is unexpected or has not been encountered during investigation or other siteworks.
- 9.13.2 Should any previously unencountered and unexpected contamination be encountered, works should be temporarily halted and Soiltechnics informed. The Consultant should then assess the situation to determine what remedial action is required and inform the Local Authority at the earliest opportunity.
- 9.13.3 It is often a requirement of Local Authority planning conditions that the building/demolition contractor has a contamination discovery/contingency strategy in place for dealing with unexpected contamination. Soiltechnics are pleased to provide advice on such a strategy if required.

10 Soil and Waste Management

10.1 Sustainability

- 10.1.1 Where possible, disposal of soils to landfill should be avoided in preference for more sustainable alternatives. Such alternatives are set out below and rely on appropriate planning and design.
- 10.1.2 Soiltechnics can provide additional support and guidance to assist in overall material management and soil waste minimisation upon request.

10.2 Waste Hierarchy

- 10.2.1 Under the Waste Regulations, there is a requirement to apply (where reasonable) the waste management hierarchy, which is summarised below. Within the hierarchy, soil disposal to landfill should be limited to the necessary minimum.

Stage (in order of preference)	Example application
Prevention / Reduce	Design, planning, Site Waste Management Plans (SWMP).
Reuse	Reuse of soils under exemption, permit or Materials Management Plan (MMP), sorting at the point of excavation, screening of excavated material.
Recycling	Recycling aggregate, waste segregation, screening and sorting.
Recovery	Remediation works, transfer to a Soil Treatment Facility
Pre-treatment	Non-hazardous and hazardous soils do not need to be treated, where such treatment would not reduce the volume of waste.
Disposal	If the waste hierarchy steps outline above are followed, the remaining waste can be disposed of to a landfill without any further treatment.

Table 10-A: Waste management hierarchy

10.3 Liability Of Waste Management

- 10.3.1 Part III of the Finance Act was amended in 2018 to extend the scope of landfill tax to cover any site (not exclusively landfills) operating without an appropriate environmental permit, exemption, or MMP.
- 10.3.2 These changes have given HMRC the powers to work with the Environment Agency to identify non-compliant sites and pursue and penalise the person(s) illegally disposing of waste, and anyone who knowingly facilitates the disposal. This includes sites filling site-won soils which are surplus to requirement.

10.4 Materials Management

- 10.4.1 In terms of the development, where reasonably practicable, landfill disposal should be minimised through the reuse of site-won materials on site, or off-site transfer of surplus soils to other development schemes or Soil Treatment Facilities. Early consideration of the site's overall material balance at the design stage is also critical in reducing the need for off-site disposal, limiting costs, and increasing the overall sustainability of the development.
- 10.4.2 Where Made Ground soils are to be reused onsite or materials transferred between sites, a Materials Management Plan (MMP) or Waste Exemption is recommended.

- 10.4.3 The process of an MMP allows soils that are suitable for reuse and have a certainty of use to not be considered a waste, and therefore not fall under the waste regulations. This scheme is self-regulated within the industry and is supported in principle by the Environment Agency.

10.5 Further Recommendations

- 10.5.1 No waste classification of Made Ground or topsoil for off-site disposal to landfill has been undertaken at this stage. Any soils to be disposed of off-site should be subject to waste acceptance criteria (WAC) testing and waste classification assessment.

11 Recommendations for Further Works

11.1.1 The following table summarises the additional works which should be undertaken prior to commencement of any construction works and in support of the planning conditions.

Aspect	Delivered By	Description	Necessity
Discovery Strategy	Principal Contractor	The Principal Contractor should have a discovery strategy in place in the event of exposing unexpected or previously unencountered contamination. Soiltechnics should be informed at the earliest opportunity to undertake an assessment, and to inform the Local Authority as appropriate.	REQUIRED
Remediation Strategy	Soiltechnics	A Remediation Strategy is required to detail the requirements and verification plan for all remedial works.	REQUIRED

Table 11-A: Recommended Further Works (Pre-Commencement)

11.1.2 The following table summarises the additional works which should be undertaken during the enabling and construction works phases to support the safe development of the site.

Aspect	Delivered By	Description	Necessity
Undertaking remedial works	3 rd Party	Undertaking the works, as specified within the Remediation Strategy. Remedial works are expected to comprise of the installation of a clean cover system or complete removal of Made Ground/Topsoil deposits from areas of proposed landscaping.	REQUIRED
Verification of remedial works	Soiltechnics	All remedial works must be witnessed and evidenced by a geoenvironmental consultant to demonstrate compliance to the Remediation Strategy, with a Verification Report produced to demonstrate compliance.	REQUIRED
Installation barrier pipe	3 rd Party	The Principal Contractor should liaise with the statutory undertaker to confirm the requirement for barrier pipe installation and associated verification.	REQUIRED

Table 11-B: Recommended Further Works (Enabling Works & Construction Phase)

Appendix A Drawings



Key:

Exploratory Holes

- Windowless Sampling Borehole
- Soakaways

Site Features

- Site Boundary
- Phase 1 Development Area

Notes

1) Base image provided by Google.

2) All drawn features are approximate.

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Map data © 2023 Google

A	Feb 24	First issue
REV	DATE	COMMENT ON VARIATION

soiltechnics
environmental • geotechnical • building fabric

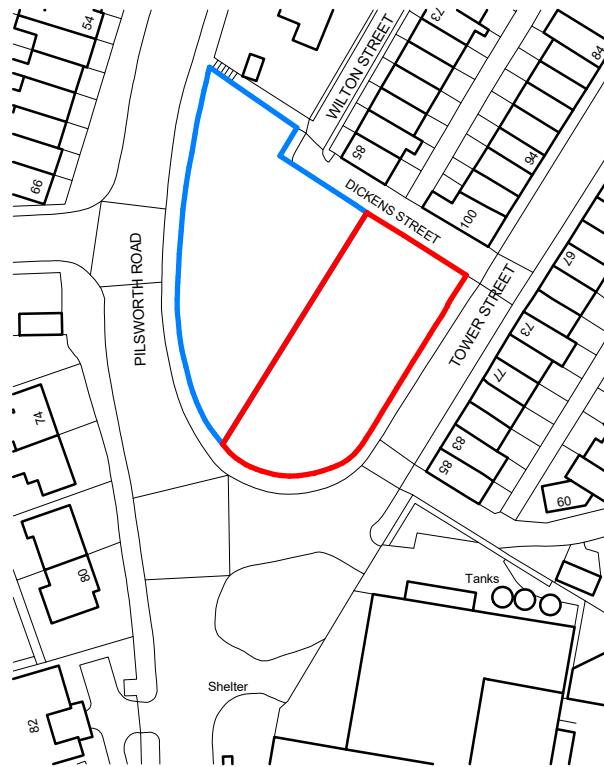
PROJECT
Pilsworth Road, Heywood

TITLE
Exploratory Hole Location Plan

DRAWING No.
STV6300-D01-A

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Scale 1:1250



LEGEND

- Application site boundary and all land necessary to carry out the proposed development
- Other land owned by the applicant that is close to or adjacent to the property

SITE LOCATION PLAN

P01 16.08.23 MM Issued for comment.
P02 13.12.23 JS Site plan issued for comment.
Rev. | Date | By | Remarks

TRIANGLE ARCHITECTS Tel: 0161 272 3500 E-mail: studio@trianglearchitects.co.uk Web: www.trianglearchitects.co.uk Twitter: @TriangleArch Raven House, 113 Fairfield Street, Manchester, M12 6EL	Client:	Date: Dec'2023	Drawing Purpose:		
	Cornerstone Place	Scale @ A3: 1 : 1250	INFORMATION		
	Project:	Drawn: JS	Project Number:	Drawing Number:	Revision:
	Pilsworth Road Heywood	Checked: AJD	23-030	SK01	P02



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■ CHECK ALL DIMENSIONS ON SITE.

■ DRAWING TO BE READ IN CONJUNCTION WITH THE HEALTH & SAFETY PLAN, AND ALL RELEVANT RISK ASSESSMENTS AND THE FOLLOWING DRAWINGS:

- SITE PLAN LEGEND**
- Existing tree retained
 - Existing tree relocated
 - Existing tree removed
 - New tree
 - New hedgerow / shrub planting
 - Public footpath
 - Grass
 - Paving to front gardens
 - Gravel or bark chipping border
 - 1.2m high metal railings
 - 1.2m high metal railings on masonry retaining wall
 - Sloped ground

P03	18.12.23	JS	Site plan updated to omit condensers and accommodate changes in level.
P02	13.12.23	JS	Site plan issued for comment.
P01	24.11.23	JS	Draft plans issued for comment.
Rev	Date	By	Remarks

Client:	Cornerstone Place		
Project Name:	Pilsworth Road Heywood		
Drawing Name:	Proposed Site Plan		
Drawing Purpose:	INFORMATION		
Project Number:	Drawing Number:	Revision:	
23-030	SK17	P03	
Scale @ A2	Drawn:	Checked:	Date:
1 : 200	JS	AJD	December 2023



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Appendix B Exploratory Hole Logs: Boreholes

Key to legends

Composite materials, soils and lithology					
	Topsoil		Made Ground		Boulders
	Clay		Coal		Cobbles
	Gravel		Limestone		Mudstone
	Sand		Sandstone		Silt
					Siltstone
					Chalk
					Concrete
					Peat

Note: Composite soil types are signified by combined symbols.

Key to 'test results' and 'sampling' columns

Test result		Sampling	
Depth	Records depth that the test was carried out (i.e.: at 2.10m or between 2.10m and 2.55m)	From (m) To (m)	Records depth of sampling
Result	PP – Pocket penetrometer result reported as an equivalent undrained shear strength (kN/m ²) by applying a factor of 50.		D Disturbed sample
	SV – Hand held shear vane result reported as an undrained shear strength (kN/m ²). Where multiple readings are taken at the same level the average value is shown on the log. * Signifies that instrument limit reached.		B Bulk disturbed sample
	SPT – Standard Penetration Test result (N value) (uncorrected) ^{1,2,3} SPT(c) – Standard Penetration Test result (solid cone) (N value) (uncorrected) ^{1,2,3}		ES Environmental sample
	UT – Undisturbed sample 100mm diameter sampler with number of blows of driving equipment required to obtain sample	Type	W Water sample
			U Undisturbed thick-walled sample 100mm diameter sampler
			UT Undisturbed thin walled sample 100mm diameter sampler
			UTF Failed undisturbed sample

Water observations

Described at foot of log and shown in the 'water strike' column.

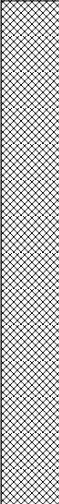
-  Water level observed after specified delay in drilling
-  Water strike

Installation details

	Gravel filter		Bentonite
	Slotted pipe		Unslotted pipe
	Arisings		Grout
	Extensometer magnet		Vibrating wire piezometer

Density

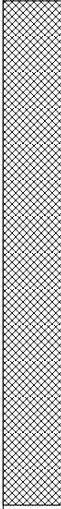
Density recorded in brackets determined by qualitative field assessment or inferred from density testing and soil descriptions from across the site (i.e.: [Medium dense]).

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto firm friable dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium angular to subangular clinker and ceramic. (TOPSOIL - MADE GROUND)	0.40				S 1.00 - 1.45	(12) 30			PP 0.50	PP=92	0.20	0.40	ES
	Stiff friable orangish brown slightly gravelly slightly sandy silty CLAY with low cobble content of subrounded sandstone. Gravel is fine to medium sandstone and coal. (DEVENSIAN TILL)											0.70	0.90	D
	...at 1.55m depth, 100mm band of mudstone gravel.													
	Brown silty fine to medium SAND. (DEVENSIAN TILL)	1.80										1.60	1.75	D
	SILTSTONE recovered as light brown fine to medium angular to subangular GRAVEL. (WEATHERED PENNINE LOWER COAL MEASURES)	2.00										1.80	2.00	D
	BOREHOLE TERMINATED AT 2.00m	2.00												

Notes Inspection pit excavated to 1m depth. Terminated due to suspected bedrock.	Title Dynamic Windowless Sampling record			Date(s) 28/11/2023	
	Recovery details		Method Windowless sampler	Logged by CB	Sheet number Sheet 1 of 1
	Range (m)	Recovery (%)			
	1.00 - 2.00	95	Level (m OD) -	Compiled by AM	Revision A
Groundwater observations No groundwater encountered.			Co-ordinates -	Checked by DH	WS01

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto firm dark brown slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is fine to medium angular to subangular sandstone, clinker, brick and glass. (TOPSOIL - MADE GROUND)	0.30				S 1.00 - 1.45	(10) 26				0.10	0.20	ES	
	Firm to stiff orangish brown mottled grey slightly gravelly slightly sandy silty CLAY with low cobble content of subrounded sandstone. Gravel is fine to medium angular to subrounded sandstone and coal. (DEVENSIAN TILL)										0.80	1.00	D	
	Reddish brown silty fine to medium SAND. (DEVENSIAN TILL)	1.20									1.25	1.75	B	
	Medium dense reddish brown slightly gravelly clayey fine to medium SAND with occasional bands of silt. Gravel is fine to medium angular to subangular siltstone. (DEVENSIAN TILL)	1.80									2.00	2.60	B	
	Orangish brown and grey sandy SILT with occasional bands of gravelly sand. Sand is fine to medium. (WEATHERED PENNINE LOWER COAL MEASURES FORMATION)	2.60				2.65	3.00				B			
	BOREHOLE TERMINATED AT 3.00m	3.00												

Notes Inspection pit excavated to 1m depth. Terminated due to suspected bedrock.	Title Dynamic Windowless Sampling record			Date(s) 28/11/2023	
	Recovery details		Method Windowless sampler	Logged by CB	Sheet number Sheet 1 of 1
	Range (m)	Recovery (%)			
	1.00 - 2.00 2.00 - 3.00	80 95	Level (m OD) - Co-ordinates -	Compiled by AM Checked by DH	Revision A WS02

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium angular to subangular siltstone and wood fragments. (TOPSOIL - MADE GROUND)	0.35				S 1.00 - 1.45	(12) 37			PP 0.50 PP 0.70 PP 0.90	PP=63 PP=67 PP=71	0.10 0.60	0.20 0.80	ES D
	Firm yellowish brown mottled grey slightly gravelly slightly sandy silty CLAY. Gravel is fine to medium angular to subrounded coal and sandstone. (DEVENSIAN TILL)													
	...from 1.1m depth, becoming stiff.													
	Brown very silty fine SAND. (DEVENSIAN TILL)	1.45								PP 1.15 PP 1.30 PP 1.80	PP=129 PP=154 PP=225	1.30 1.50	1.40 1.65	D B
	Very stiff orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular mudstone. (WEATHERED PENNINE LOWER COAL MEASURES FORMATION)	1.70												
	Orangish brown sandy very gravelly SILT. Gravel is fine to medium angular siltstone. (WEATHERED PENNINE LOWER COAL MEASURES FORMATION)	1.85										1.90	2.10	B
	BOREHOLE TERMINATED AT 2.00m	2.00												

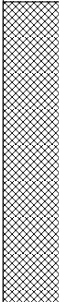
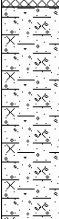
Notes Inspection pit excavated to 1m depth. Terminated due to suspected bedrock.	Title			Date(s)	
	Dynamic Windowless Sampling record			28/11/2023	
	Recovery details		Method	Logged by	Sheet number
	Range (m)	Recovery (%)	Windowless sampler	CB	Sheet 1 of 1
Groundwater observations No groundwater encountered.	1.00 - 2.00	100	Level (m OD)	Compiled by	Revision
			-	AM	A
			Co-ordinates	Checked by	WS03
			-	DH	

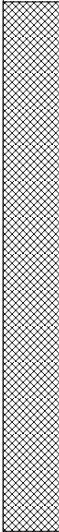
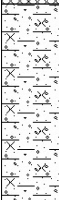
INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium angular to subangular siltstone and wood fragments. (TOPSOIL - MADE GROUND)	0.25										0.30	0.50	B
	Dark brown sandy clayey GRAVEL of fine to medium angular to subangular clinker, ceramic, wood fragments, brick and glass. (MADE GROUND)	0.30										0.30	0.50	ES
	Firm to stiff yellowish brown mottled grey slightly gravelly sandy silty CLAY. Gravel is fine to medium coal and sandstone. (DEVENSIAN TILL)	0.55								PP 0.60 PP 0.70	PP=71 PP=138	0.80	1.00	D
	Stiff reddish brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse angular to subangular sandstone, siltstone, coal and quartzite. (DEVENSIAN TILL)	1.40								PP 1.45 PP 1.60	PP=154 PP=163	1.50	1.70	D
	Stiff yellowish brown slightly sandy gravelly silty CLAY with medium cobble content of siltstone. Gravel is fine to coarse angular to subangular sandstone. (WEATHERED PENNINE LOWER COAL MEASURES)	1.75										1.80	2.00	B
	SANDSTONE recovered as fine to medium slightly sandy angular to subangular GRAVEL. (WEATHERED PENNINE LOWER COAL MEASURES FORMATION)	2.00												
	BOREHOLE TERMINATED AT 2.00m													

Notes Inspection pit excavated to 1m depth. Terminated due to suspected bedrock.	Title Dynamic Windowless Sampling record			Date(s) 28/11/2023	
	Recovery details		Method Windowless sampler	Logged by CB	Sheet number Sheet 1 of 1
	Range (m)	Recovery (%)			
	1.00 - 2.00	100	Level (m OD) -	Compiled by AM	Revision A
Groundwater observations Groundwater encountered at 2m depth, filling borehole to 1.6m depth, after 20 minutes.			Co-ordinates -	Checked by DH	WS04

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to coarse angular to subangular brick, sandstone and wood fragments. (TOPSOIL - MADE GROUND)											0.10	0.30	ES
	Firm orangish brown mottled grey slightly gravelly slightly sandy silty CLAY with low cobble content of subangular sandstone. Gravel is fine to coarse angular to subangular sandstone. (DEVENSIA TILL)	0.45								PP 0.50	PP=46	0.50	0.70	D
										PP 0.70	PP=38			
	Very stiff reddish brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium angular to subrounded sandstone, siltstone, quartzite and coal. (DEVENSIA TILL)	0.90				S 1.00 - 1.45	(26) 52			PP 0.90	PP=42	1.00	1.80	B
	...between 1.4m and 1.5m depth, band of sand.													
	Very dense yellowish brown and grey sandy very silty GRAVEL of fine to coarse angular to subangular sandstone and siltstone with occasional bands of sand. (WEATHERED PENNINE LOWER COAL MEASURES FORMATION)	1.80								PP 1.90	PP=225	1.85	2.00	D
	BOREHOLE TERMINATED AT 2.03m	2.03				S 2.00 - 2.03	(50/30mm)							

Notes Inspection pit excavated to 1m depth. Infiltration testing performed. Terminated due to suspected bedrock.	Title			Date(s)	
	Dynamic Windowless Sampling record			28/11/2023	
	Recovery details		Method	Logged by	Sheet number
	Range (m)	Recovery (%)	Windowless sampler	CB	Sheet 1 of 1
Groundwater observations No groundwater encountered.	1.00 - 2.00	100	Level (m OD)	Compiled by	Revision
			-	AM	A
			Co-ordinates	Checked by	WS05
			-	DH	

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING		
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE
	Grass onto firm dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to coarse angular to subrounded brick, sandstone, concrete and ceramic. (TOPSOIL - MADE GROUND)	0.35				S 1.00 - 1.45	(9) 24			PP 1.25	PP=104	0.10	0.30	ES
	Firm friable orangish brown mottled grey slightly gravelly sandy silty CLAY. Gravel is fine to medium angular to subrounded sandstone and coal. (DEVENSIAN TILL)											0.60	0.70	D
	...from 1.2m depth, becoming stiff.													
	...from 1.4m depth, becoming very stiff and no longer friable.													
														
														
														
														
														
														
														
														
														
														
														

INSTALL	STRATA				WATER STRIKES	SPT TESTING				OTHER IN SITU TESTING		SAMPLING			
	DESCRIPTION	DEPTH (m)	REDUCED LVL (m OD)	LEGEND		TYPE / DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	TYPE / DEPTH (m)	RESULT	FROM (m)	TO (m)	TYPE	
	Grass onto firm friable dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium angular to subangular clinker and ceramic. (TOPSOIL - MADE GROUND)	0.35				S 1.00 - 1.45	(7) 20								
	Firm to stiff greyish brown mottled grey slightly gravelly slightly sandy silty CLAY. Gravel is medium angular to subangular sandstone, siltstone and coal. (DEVENSIAN TILL)									PP 0.40	PP=75				
				PP 0.70						PP=71	0.70	0.90	D		
				PP 0.90						PP=75					
	...from 1.1m depth, becoming firm.			PP 1.20						PP=46	1.20	1.40	D		
	Stiff reddish brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium angular to subrounded sandstone and coal. (DEVENSIAN TILL)	1.15				S 2.00 - 2.10	(50/95mm)			PP 1.40	PP=38	1.50	1.70	B	
Brown gravelly silty fine to medium SAND. Gravel is fine mudstone and siltstone. (DEVENSIAN TILL)	1.45														
Orangish brown SILTSTONE recovered as sandy silty fine to medium angular GRAVEL. (PENNINE LOWER COAL MEASURES FORMATION)	2.00										1.90	2.00	D		
BOREHOLE TERMINATED AT 2.10m															

Notes Inspection pit excavated to 1m depth. Terminated due to suspected bedrock.	Title Dynamic Windowless Sampling record				Date(s) 28/11/2023	
	Recovery details		Method Windowless sampler	Logged by CB	Sheet number Sheet 1 of 1	
	Range (m)	Recovery (%)				
	1.00 - 2.00	95	Level (m OD) -	Compiled by AM	Revision A	
Groundwater observations No groundwater encountered.			Co-ordinates -	Checked by DH	WS07	

Appendix C In Situ Test Results

Table summarising Pocket Penetrometer results

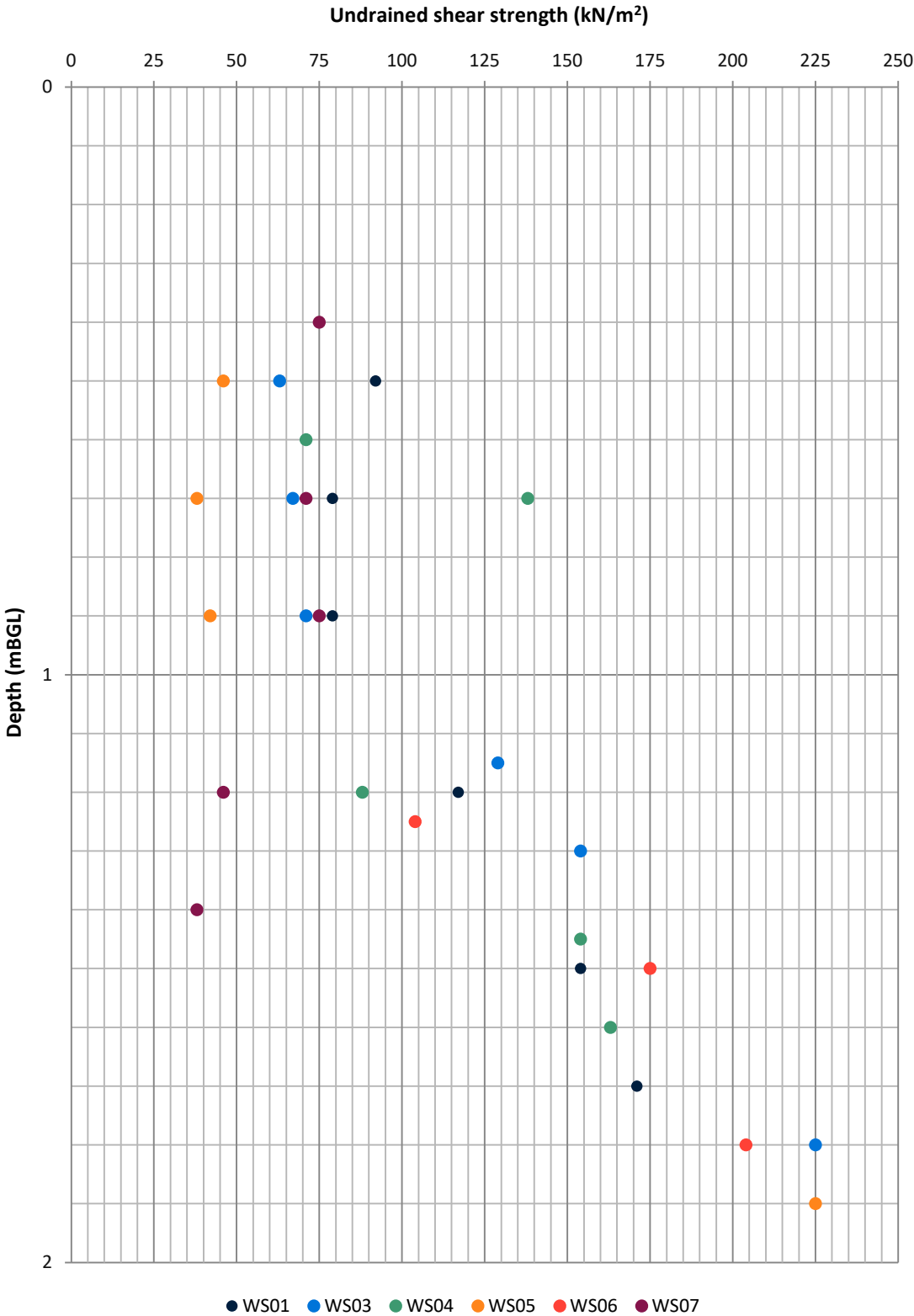
* Instrument limit reached.

Location	Start Depth (m)	Results 1-3	Average	Undrained Shear Strength (kN/m ²)
WS01	0.50	1.75/2/1.75	1.83	92
WS01	0.70	1.5/1.5/1.75	1.58	79
WS01	0.90	1.5/1.5/1.75	1.58	79
WS01	1.20	2.25/2.5/2.25	2.33	117
WS01	1.50	3/3/3.25	3.08	154
WS01	1.70	3.5/3.25/3.5	3.42	171
WS03	0.50	1.25/1/1.5	1.25	63
WS03	0.70	1.5/1.5/1	1.33	67
WS03	0.90	1.5/1.5/1.25	1.42	71
WS03	1.15	2.5/2.75/2.5	2.58	129
WS03	1.30	3/3.25/3	3.08	154
WS03	1.80	4.5/4.5/4.5	4.50	225
WS04	0.60	1.5/1.25/1.5	1.42	71
WS04	0.70	3/3.5/1.75	2.75	138
WS04	1.20	1.75/1.5/2	1.75	88
WS04	1.45	3/3/3.25	3.08	154
WS04	1.60	3.25/3.25/3.25	3.25	163
WS05	0.50	1/0.75/1	0.92	46
WS05	0.70	0.75/0.75/0.75	0.75	38
WS05	0.90	0.5/1/1	0.83	42
WS05	1.90	4.5/4.5/4.5	4.50	225
WS06	1.25	2/2.25/2	2.08	104
WS06	1.50	3.25/3.5/3.75	3.50	175
WS06	1.80	4/4/4.25	4.08	204
WS07	0.40	1.5/1.5/1.5	1.50	75
WS07	0.70	1.5/1.25/1.5	1.42	71
WS07	0.90	1.5/1.5/1.5	1.50	75
WS07	1.20	1/0.75/1	0.92	46
WS07	1.40	1/0.5/0.75	0.75	38

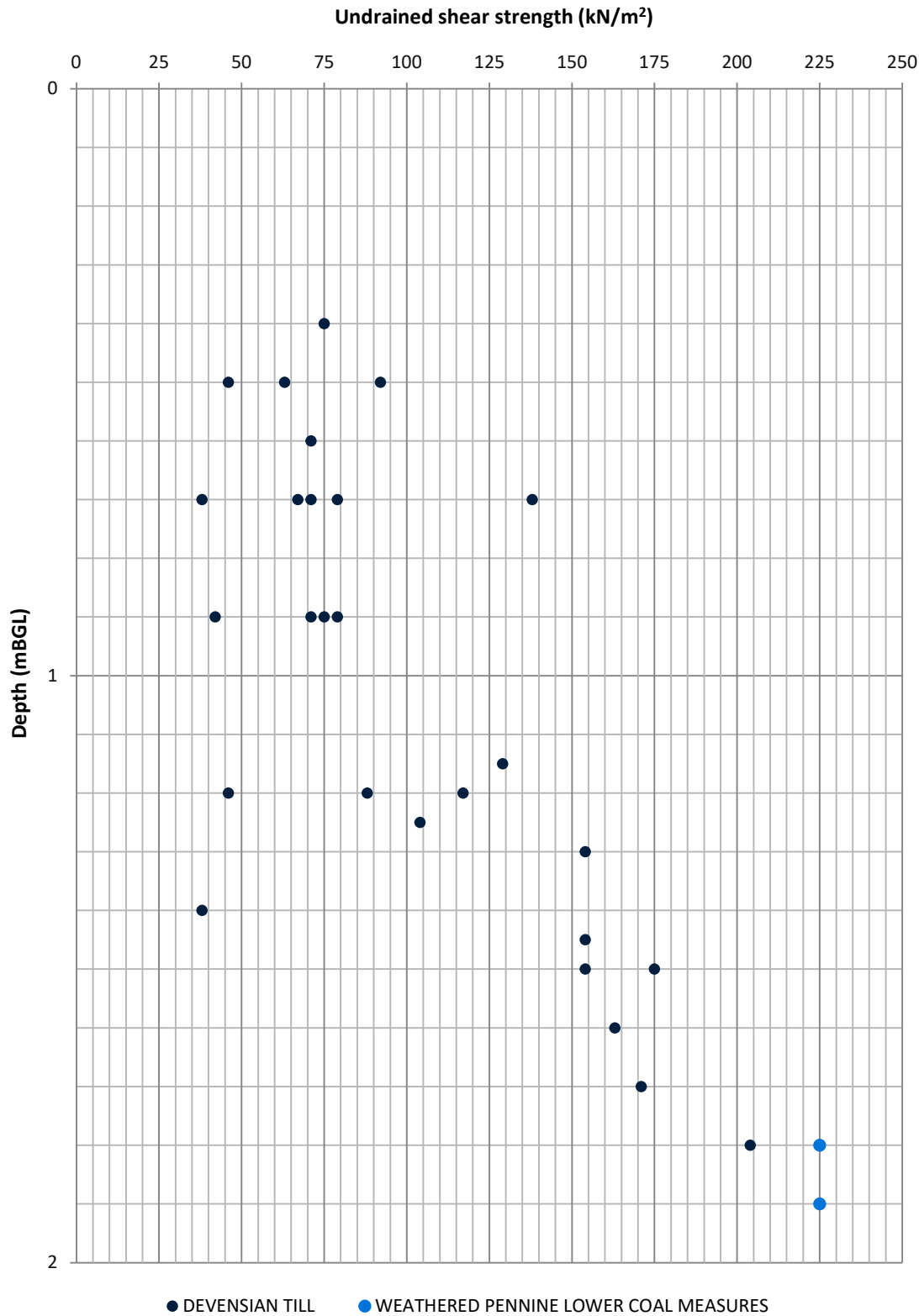
Table summarising Standard Penetration Test (SPT) results

Location	Start Depth (m)	Penetration (mm)					
		Seating 1-2	Main 1-4	Total Seating	Total Main	Total Seating	Total Main
WS01	1.00	4/8	6/6/6/12	12	30	150	300
WS02	1.00	4/6	6/6/7/7	10	26	150	300
WS02	2.00	4/4	5/5/6/7	8	23	150	300
WS03	1.00	5/7	7/9/9/12	12	37	150	300
WS04	1.00	4/4	4/5/11/15	8	35	150	300
WS05	1.00	10/16	19/14/14/5	26	52	150	300
WS05	2.00	50		50	0	30	
WS06	1.00	4/5	5/6/5/8	9	24	150	300
WS06	2.00	14/14	15/16/19	28	50	150	170
WS07	1.00	3/4	5/5/5/5	7	20	150	300
WS07	2.00	47/3		50	0	95	

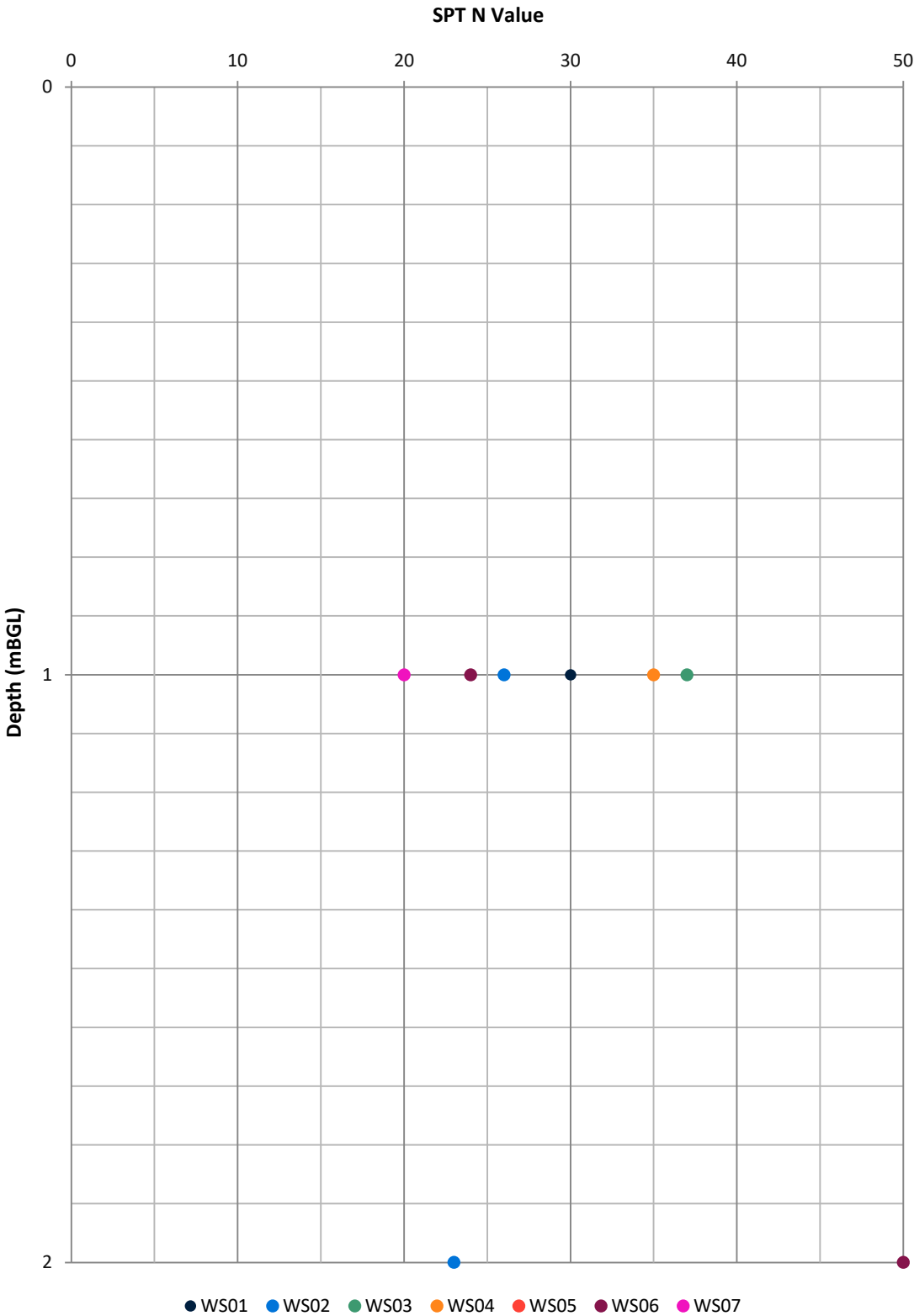
Plot summarising Pocket Penetrometer results versus depth filtered by location



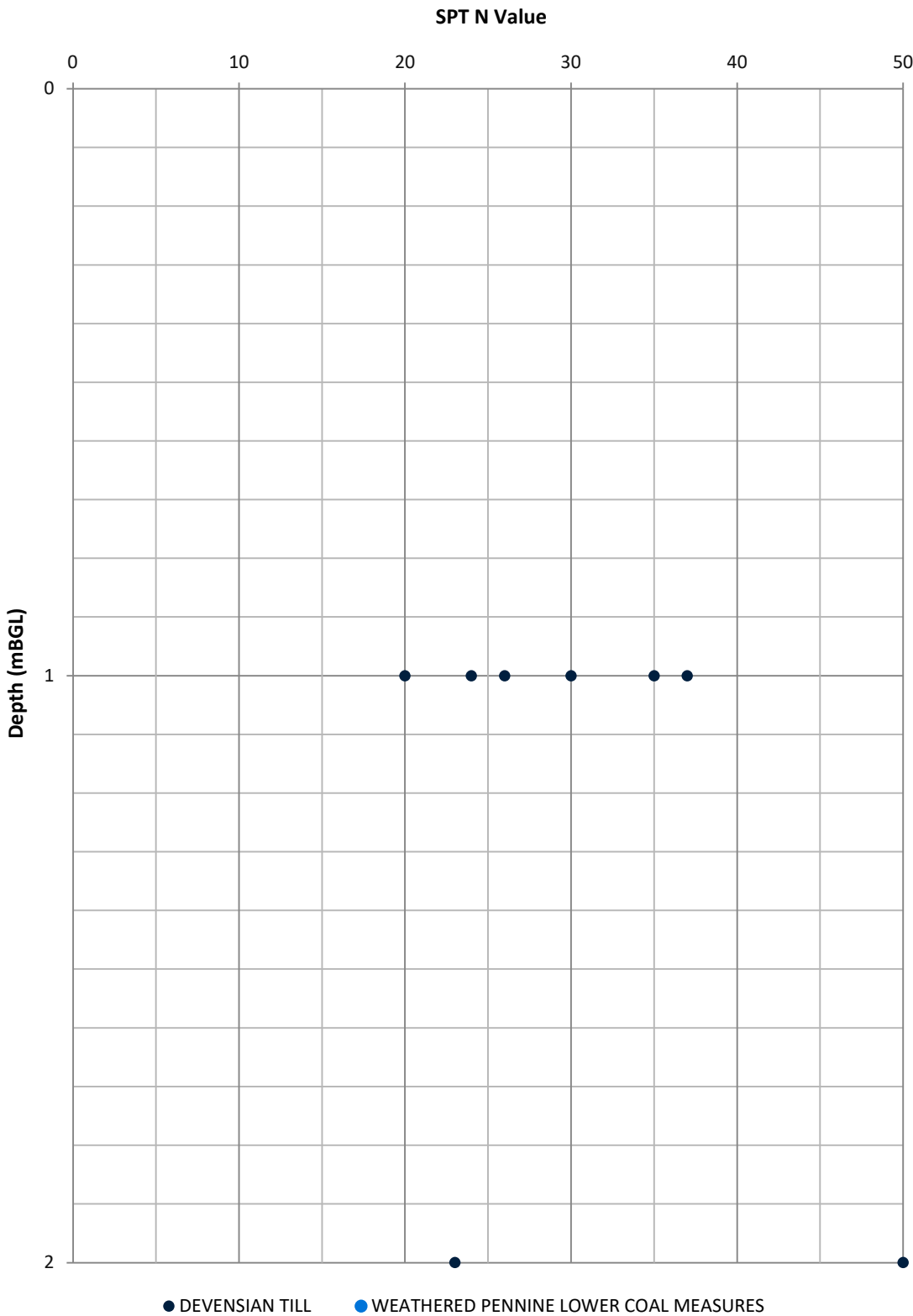
Plot summarising Pocket Penetrometer results versus depth filtered by geology



Plot summarising Standard Penetration Test (SPT) results versus depth filtered by location



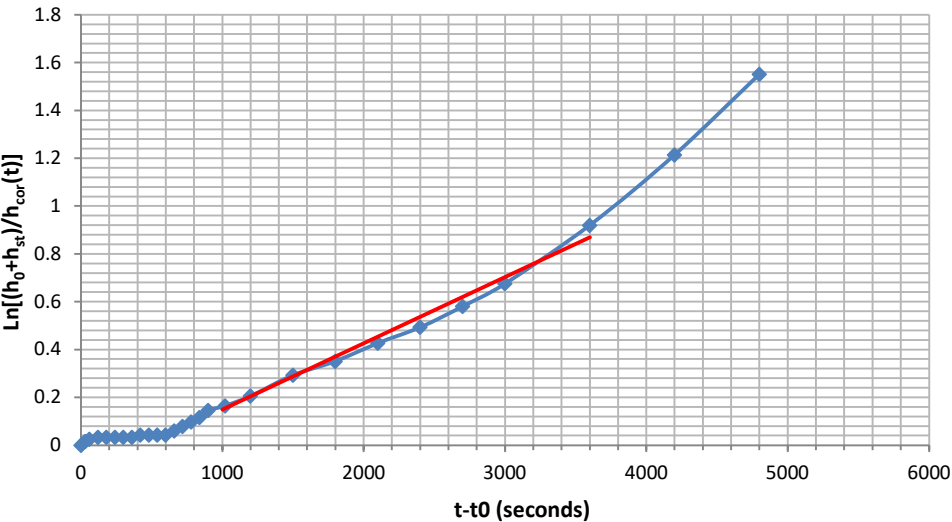
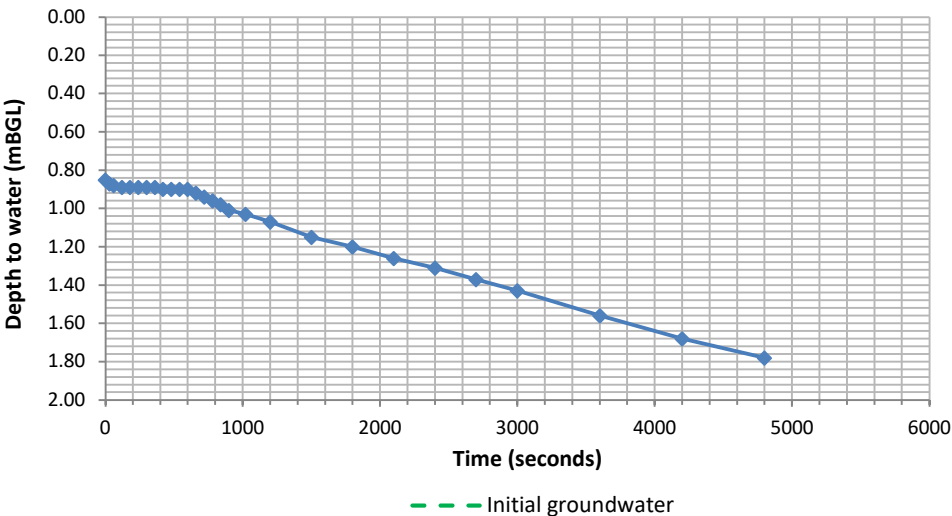
Plot summarising Standard Penetration Test (SPT) results versus depth filtered by geology



Appendix D Insitu Permeability Testing Results

Permeability test in a borehole using open systems (BS EN ISO 22282-2:2012)

Location	Test number	Test method	Test system	Test date
WS05	1	Falling head	Open borehole	28/11/2023
Top of test section (m)	Bottom of test section (m)	Test section length (m)	Test diameter (m)	
0.85	2.03	1.18	0.1	
Variables at start of test				
Groundwater (mBGL)	Water after injection (mBGL)	Change in head (m)		
Dry	0.85	1.18		



F	Shape factor according BS EN ISO 22282-1:2012	2.345 m
S	Cross sectional area of measurement tube	0.0079 m ²
h _{st}	Corrective term to initial static level	0.00E+00 m
α	Gradient of line alpha	2.77E-04 s ⁻¹
k	Permeability (α S / F)	9.27E-07 m/s

Appendix E Geotechnical Laboratory Test Results



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

4041

Client: Soiltechnics Limited
Client Address: Cedar Barn, White Lodge,
Walgrave, Northampton,
NN6 9PY
Contact: Admin
Site Address: 23-511 Pilsworth Road, Heywood

Client Reference: STV6300
Job Number: 23-72175-1
Date Sampled: 28/11/2023
Date Received: 30/11/2023
Date Tested: 08/12/2023
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

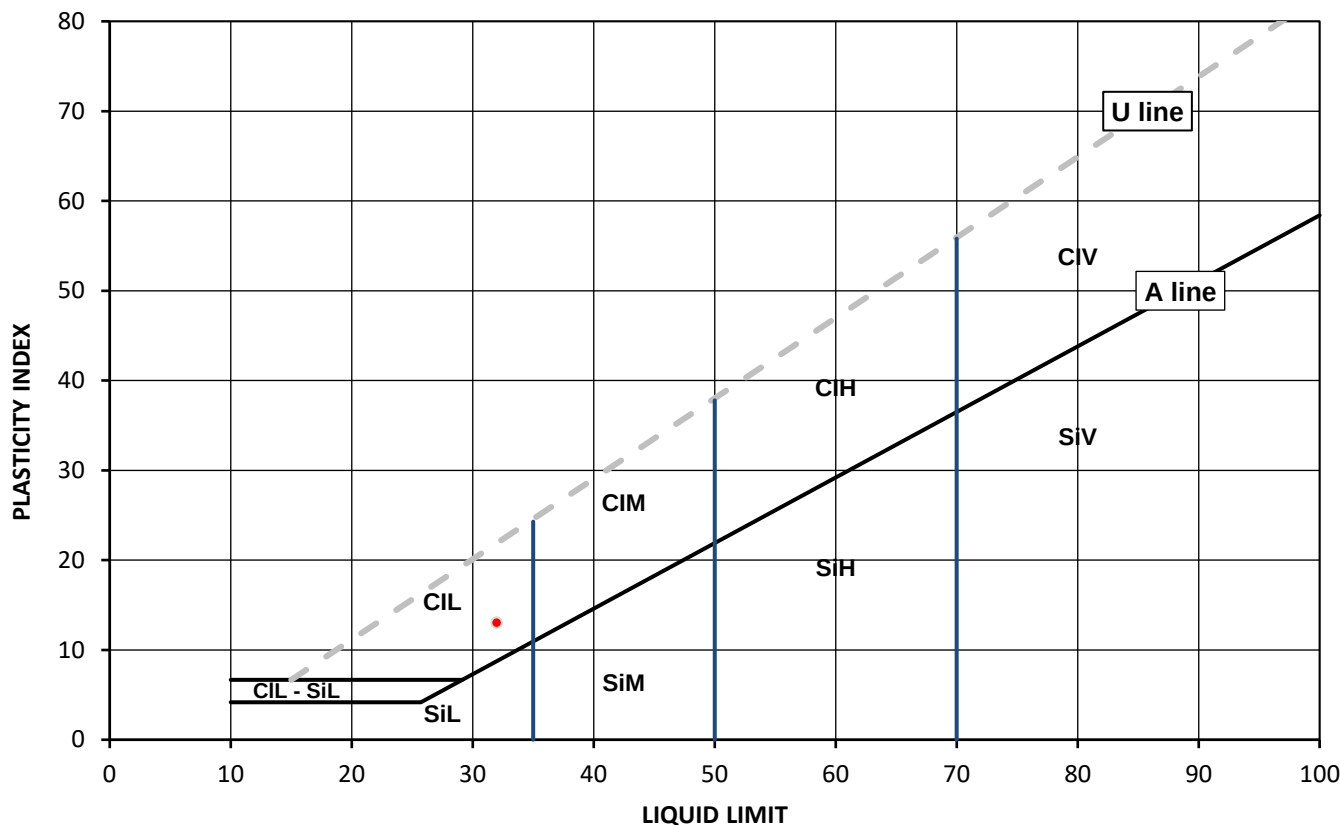
Test Results:

Laboratory Reference: 2895770
Hole No.: WS02
Sample Reference: WS020.802
Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 0.80
Depth Base [m]: 1.00
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
24	32	19	13	94



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	L Low below 35
Si	Silt	M Medium 35 to 50
		H High 50 to 70
		V Very high exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Monika Janoszek
PL Environmental & Geotechnical Lab Production Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

4041

Client: Soiltechnics Limited
Client Address: Cedar Barn, White Lodge,
Walgrave, Northampton,
NN6 9PY
Contact: Admin
Site Address: 23-511 Pilsworth Road, Heywood

Client Reference: STV6300
Job Number: 23-72175-1
Date Sampled: 28/11/2023
Date Received: 30/11/2023
Date Tested: 08/12/2023
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

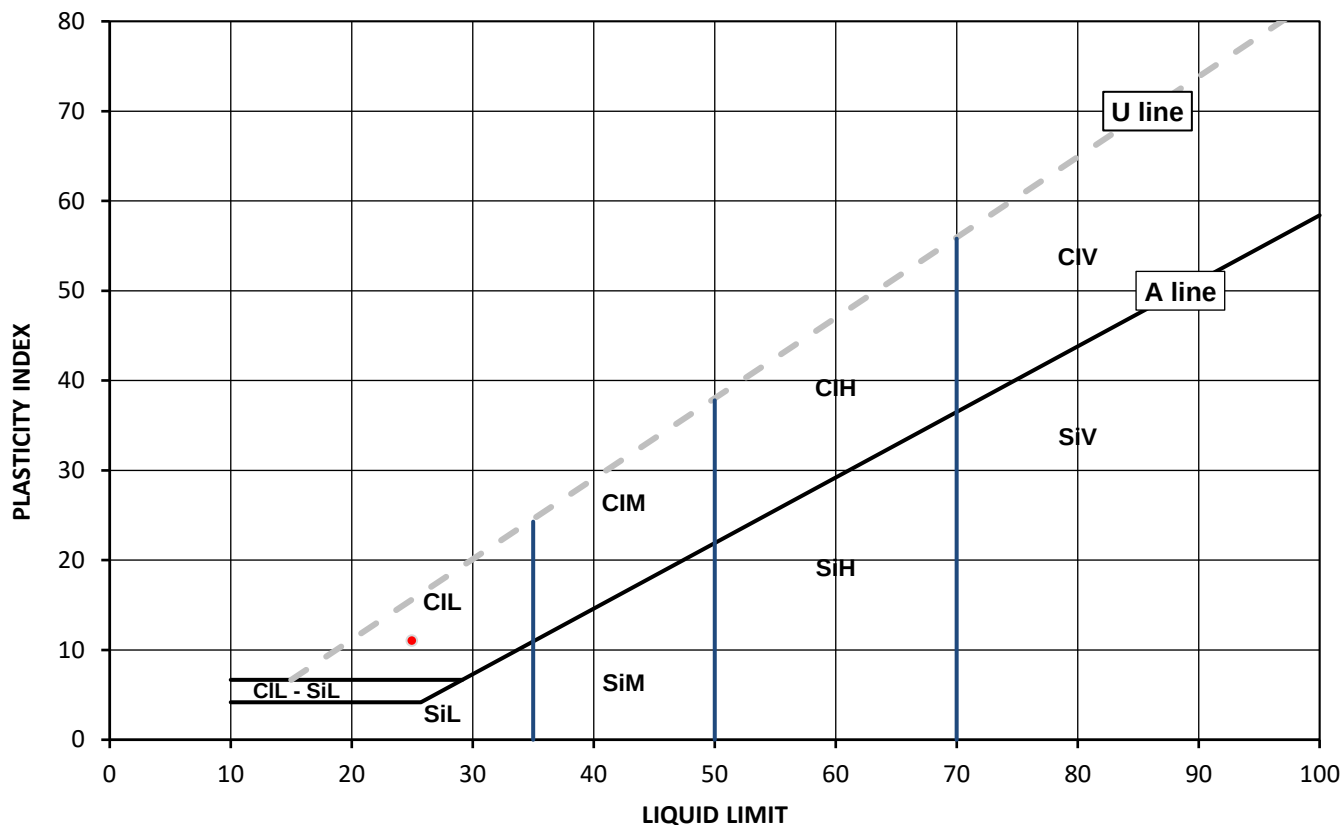
Test Results:

Laboratory Reference: 2895772
Hole No.: WS03
Sample Reference: WS031.303
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 1.30
Depth Base [m]: 1.40
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
13	25	14	11	91



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Monika Janoszek
PL Environmental & Geotechnical Lab Production Specialist
for and on behalf of i2 Analytical Ltd

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SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

4041

Client: Soiltechnics Limited
Client Address: Cedar Barn, White Lodge,
Walgrave, Northampton,
NN6 9PY
Contact: Admin
Site Address: 23-511 Pilsworth Road, Heywood

Client Reference: STV6300
Job Number: 23-72175-1
Date Sampled: 28/11/2023
Date Received: 30/11/2023
Date Tested: 08/12/2023
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2895770	WS02	WS020.802	0.80	1.00	D	Brown slightly gravelly sandy CLAY		24	Sample was quartered, oven dried at 106.1 °C			
2895772	WS03	WS031.303	1.30	1.40	D	Brown slightly gravelly very sandy CLAY		13	Sample was quartered, oven dried at 106.1 °C			

Comments:

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Signed:

Monika Janoszek
PL Environmental & Geotechnical Lab Production Specialist
for and on behalf of i2 Analytical Ltd



4041

TEST CERTIFICATE**DETERMINATION OF PARTICLE SIZE DISTRIBUTION**

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

Client: Soiltechnics Limited
Client Address: Cedar Barn, White Lodge,
Walgrave, Northampton,
NN6 9PY
Contact: Admin
Site Address: 23-511 Pilsworth Road, Heywood

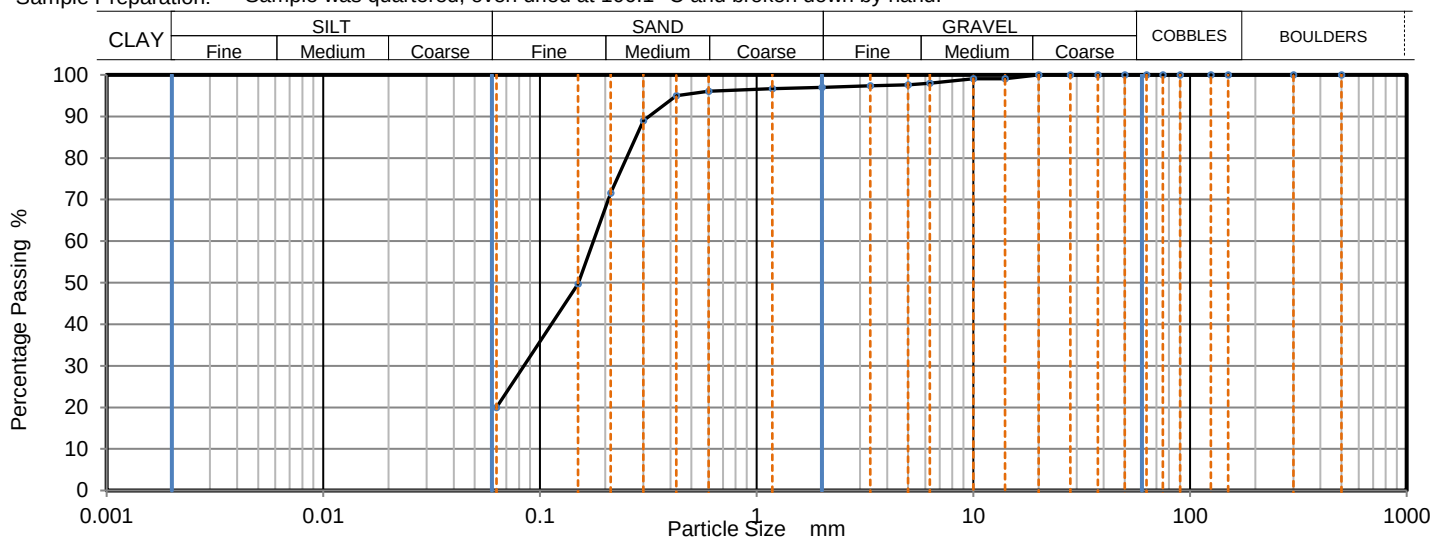
Client Reference: STV6300
Job Number: 23-72175-1
Date Sampled: 28/11/2023
Date Received: 30/11/2023
Date Tested: 08/12/2023
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2895771
Hole No.: WS02
Sample Reference: WS021.253
Sample Description: Brown clayey SAND
Sample Preparation: Sample was quartered, oven dried at 106.1 °C and broken down by hand.

Depth Top [m]: 1.25
Depth Base [m]: 1.75
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	99		
10	99		
6.3	98		
5	98		
3.35	97		
2	97		
1.18	97		
0.6	96		
0.425	95		
0.3	89		
0.212	72		
0.15	50		
0.063	20		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	77
Fines <0.063mm	20

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 2.8
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:**Signed:**

Monika Janoszek
PL Environmental & Geotechnical Lab Production Specialist
for and on behalf of i2 Analytical Ltd

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Admin

Soiltechnics Limited
Cedar Barn
White Lodge
Walgrave
Northampton
NN6 9PY

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

e: admin@soiltechnics.net

Analytical Report Number : 23-72177

Project / Site name:	23-511 Pilsworth Road, Heywood	Samples received on:	30/11/2023
Your job number:	STV6300	Samples instructed on/ Analysis started on:	30/11/2023
Your order number:	POR017233	Analysis completed by:	14/12/2023
Report Issue Number:	1	Report issued on:	14/12/2023
Samples Analysed:	3 soil samples		



Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 23-72177

Project / Site name: 23-511 Pilsworth Road, Heywood

Your Order No: POR017233

Lab Sample Number				2895774	2895775	2895776
Sample Reference				WS01	WS02	WS04
Sample Number				WS010.702	WS021.253	WS040.302
Depth (m)				0.70-0.90	1.25-1.75	0.30-0.50
Date Sampled				28/11/2023	28/11/2023	28/11/2023
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	11	18
Total mass of sample received	kg	0.001	NONE	0.5	2	2

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.1	7.4	7.4
Total Sulphate as SO ₄	%	0.005	MCERTS	0.007	< 0.005	0.085
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0056	0.007	0.0315
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	5.6	7	31.5
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	3.3	< 0.5	3.8
Total Sulphur	%	0.005	MCERTS	0.007	< 0.005	0.071
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	5.6	< 2.0	< 2.0

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	6.3	13
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	3.2	6.5

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 23-72177

Project / Site name: 23-511 Pilsworth Road, Heywood

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2895774	WS01	WS010.702	0.70-0.90	Brown clay and sand.
2895775	WS02	WS021.253	1.25-1.75	Brown sand with gravel.
2895776	WS04	WS040.302	0.30-0.50	Brown loam and sand with gravel and vegetation.

Analytical Report Number : 23-72177

Project / Site name: 23-511 Pilsworth Road, Heywood

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Appendix F Geoenvironmental Laboratory Test Results



Final Report

Report No.: 23-39827-1

Initial Date of Issue: 07-Dec-2023

Re-Issue Details:

Client Soiltechnics Limited

Client Address: 1st Floor Unit 9 Westpoint Enterprise
Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS

Contact(s): Admin

Project STV6300 23-511 Pilsworth Road,
Heywood

Quotation No.: **Date Received:** 01-Dec-2023

Order No.: POR017231 **Date Instructed:** 01-Dec-2023

No. of Samples: 5

Turnaround (Wkdays): 5 **Results Due:** 07-Dec-2023

Date Approved: 07-Dec-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: STV6300 23-511 Pilsworth Road, Heywood

Client: Soiltechnics Limited	Chemtest Job No.:				23-39827	23-39827	23-39827	23-39827	23-39827
Quotation No.:	Chemtest Sample ID.:				1739311	1739312	1739313	1739314	1739315
Order No.: POR017231	Client Sample Ref.:				1	1	1	1	1
	Client Sample ID.:				WS010.201	WS020.101	WS040.301	WS050.101	WS060.101
	Sample Location:				WS01	WS02	WS04	WS05	WS06
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.20	0.10	0.30	0.10	0.10
	Bottom Depth (m):				0.40	0.20	0.50	0.30	0.30
	Date Sampled:				28-Nov-2023	28-Nov-2023	28-Nov-2023	28-Nov-2023	28-Nov-2023
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD					
ACM Type	U	2192		N/A	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	24	17	16	17	17
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones and Roots	Stones and Roots	Stones and Roots	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand
pH at 20C	M	2010		4.0	6.9	6.9	7.7	7.2	7.7
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.65	0.48	0.69	0.66	0.75
Cyanide (Complex)	M	2300	mg/kg	0.50	0.50	< 0.50	14	3.0	< 0.50
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	0.50	< 0.50	14	3.0	< 0.50
Arsenic	M	2455	mg/kg	0.5	22	27	43	29	120
Beryllium	U	2455	mg/kg	0.5	1.1	1.5	2.2	1.5	2.6
Cadmium	M	2455	mg/kg	0.10	0.39	0.38	0.26	0.29	0.39
Chromium	M	2455	mg/kg	0.5	23	19	20	15	21
Copper	M	2455	mg/kg	0.50	55	64	91	63	160
Mercury	M	2455	mg/kg	0.05	0.48	0.74	0.46	0.34	0.55
Nickel	M	2455	mg/kg	0.50	26	28	45	24	37
Lead	M	2455	mg/kg	0.50	170	260	340	220	300
Selenium	M	2455	mg/kg	0.25	1.3	1.3	1.1	1.1	1.2
Vanadium	U	2455	mg/kg	0.5	34	36	50	32	55
Zinc	M	2455	mg/kg	0.50	140	170	170	210	210
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
LOI	M	2610	%	0.10	2.1	2.2	1.2	9.9	1.6
Organic Matter	M	2625	%	0.40	11	11	41	12	16
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	5.2	4.5
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	18	25
TPH >C16-C21	N	2670	mg/kg	1.0	18	23	31	60	110
TPH >C21-C35	N	2670	mg/kg	1.0	80	84	150	430	260
Total TPH >C5-C35	N	2670	mg/kg	10	98	110	190	510	400

Results - Soil

Project: STV6300 23-511 Pilsworth Road, Heywood

Client: Soiltechnics Limited	Chemtest Job No.:				23-39827	23-39827	23-39827	23-39827	23-39827
Quotation No.:	Chemtest Sample ID.:				1739311	1739312	1739313	1739314	1739315
Order No.: POR017231	Client Sample Ref.:				1	1	1	1	1
	Client Sample ID.:				WS010.201	WS020.101	WS040.301	WS050.101	WS060.101
	Sample Location:				WS01	WS02	WS04	WS05	WS06
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.20	0.10	0.30	0.10	0.10
	Bottom Depth (m):				0.40	0.20	0.50	0.30	0.30
	Date Sampled:				28-Nov-2023	28-Nov-2023	28-Nov-2023	28-Nov-2023	28-Nov-2023
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD					
Naphthalene	M	2800	mg/kg	0.10	0.57	0.54	1.1	1.2	2.3
Acenaphthylene	N	2800	mg/kg	0.10	0.12	0.10	0.69	0.13	0.10
Acenaphthene	M	2800	mg/kg	0.10	0.63	0.60	1.5	1.7	3.5
Fluorene	M	2800	mg/kg	0.10	0.55	0.43	1.3	1.1	2.4
Phenanthrene	M	2800	mg/kg	0.10	4.9	4.6	15	11	23
Anthracene	M	2800	mg/kg	0.10	1.0	1.1	3.0	2.2	5.4
Fluoranthene	M	2800	mg/kg	0.10	7.9	8.3	21	17	31
Pyrene	M	2800	mg/kg	0.10	6.6	7.2	18	15	27
Benzo[a]anthracene	M	2800	mg/kg	0.10	3.5	3.6	9.0	7.8	14
Chrysene	M	2800	mg/kg	0.10	3.4	3.2	10	8.5	13
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	4.2	4.7	12	9.5	16
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	1.4	1.6	4.5	3.4	5.7
Benzo[a]pyrene	M	2800	mg/kg	0.10	3.5	3.7	9.9	8.9	15
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	2.0	2.0	5.9	5.1	9.4
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.47	0.45	1.1	1.1	1.8
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	1.9	2.0	5.8	3.8	7.1
Total Of 16 PAH's	N	2800	mg/kg	2.0	43	44	120	97	180
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH at 20°C	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Appendix G Contamination Assessment Screening

GQRA Screening

Assessments	Status	Date	Created by	Reviewed By
Acute human health risk - Soils	Completed	15.01.2024	DH	SCD
Chronic human health risk - Soils	Completed	15.01.2024	DH	SCD
<i>Chronic human health risk - Groundwater vapour</i>	<i>Not undertaken</i>			
<i>Controlled waters risk - Surface water</i>	<i>Not undertaken</i>			
<i>Controlled waters risk - Drinking water</i>	<i>Not undertaken</i>			
<i>Controlled waters - Free phase indicator</i>	<i>Not undertaken</i>			
Phytotoxicity	Completed	15.01.2024	DH	SCD
<i>Ecotoxicity</i>	<i>Not undertaken</i>			

Key

Assessment	Abbr.	GQRA Source (in order of preference)	Last Update
All	NGA	No guideline value available	-
Acute human health risk - Soils	AGAC	Acute Generic Assessment Criteria (SoBRA)	April 2019
	sat.	Contaminant poses a low acute risk unless the soil saturation limit is exceeded and a free oil phase is present.	April 2019
Chronic human health risk - Soils	C4SL	Category 4 Screening Levels (DEFRA)	May 2021
	S4UL	Suitable 4 Use Levels (LQM)	August 2015
	ATK	Atrisk Soil Screening Values (Atkins)	June 2017
	CL:AIRE	Generic Assessment Criteria (CL:AIRE)	Jan 2010
Phytotoxicity	BSI	BS 3882 - Specification for Topsoil (u = upper limit, l = lower limit for multipurpose topsoil) (British Standards Institute)	April 2015
	SSIA	Potentially Toxic Element. Sewage Sludge in Agriculture: Code of Practice (Environment Agency)	May 2018

Chronic human health risk (soils)

Scenario									
End user	Current and proposed site user								
Receptor	Residential without homegrown produce								
SOM	6.00%								
GAC Preference	C4SLs over S4ULs								
Unspeciated TPH GAC	Worst-case aliphatic/aromatic								
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	WS01	WS02	WS04	WS05	WS06
				Depth (m)	0.20 - 0.40	0.10 - 0.20	0.30 - 0.50	0.10 - 0.30	0.10 - 0.30
				Date	28/11/23	28/11/23	28/11/23	28/11/23	28/11/23
Inorganics - Metals									
Arsenic	C4SL	40	120		22	27	43	29	120
Beryllium	S4UL	1.7	2.6		1.1	1.5	2.2	1.5	2.6
Boron	S4UL	11000	0.75		0.65	0.48	0.69	0.66	0.75
Cadmium	C4SL	150	0.39		0.39	0.38	0.26	0.29	0.39
Chromium (III)	S4UL	910	23		23	19	20	15	21
Chromium (VI)	C4SL	21	<LoD		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper	S4UL	7100	160		55	64	91	63	160
Cyanide - Free	ATK	34	<LoD		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Lead	C4SL	310	340		170	260	340	220	300
Mercury	S4UL	56	0.74		0.48	0.74	0.46	0.34	0.55
Nickel	S4UL	180	45		26	28	45	24	37
Selenium	S4UL	430	1.3		1.3	1.3	1.1	1.1	1.2
Vanadium	S4UL	1200	55		34	36	50	32	55
Zinc	S4UL	40000	210		140	170	170	210	210
Inorganics - Asbestos									
Asbestos Type		N/A			-	-	-	-	-
Asbestos Screen		N/A			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Inorganics - Soil Parameters									
Organic matter		N/A			11	11	41	12	16
Organics - PAH & Phenol									
Acenaphthene	S4UL	6000	3.5		0.63	0.6	1.5	1.7	3.5
Acenaphthylene	S4UL	6000	0.69		0.12	0.1	0.69	0.13	0.1
Anthracene	S4UL	37000	5.4		1	1.1	3	2.2	5.4
Benzo(a)anthracene	S4UL	15	14		3.5	3.6	9	7.8	14
Benzo(a)pyrene	C4SL	5.3	15		3.5	3.7	9.9	8.9	15
Benzo(b)fluoranthene	S4UL	4	16		4.2	4.7	12	9.5	16
Benzo(ghi)perylene	S4UL	360	7.1		1.9	2	5.8	3.8	7.1
Benzo(k)fluoranthene	S4UL	110	5.7		1.4	1.6	4.5	3.4	5.7
Chrysene	S4UL	32	13		3.4	3.2	10	8.5	13
Dibenz(a,h)anthracene	S4UL	0.32	1.8		0.47	0.45	1.1	1.1	1.8
Fluoranthene	S4UL	1600	31		7.9	8.3	21	17	31
Fluorene	S4UL	4500	2.4		0.55	0.43	1.3	1.1	2.4
Indeno(1,2,3-cd)pyrene	S4UL	46	9.4		2	2	5.9	5.1	9.4
Naphthalene	S4UL	13	2.3		0.57	0.54	1.1	1.2	2.3
Phenanthrene	S4UL	1500	23		4.9	4.6	15	11	23
Phenol	S4UL	1200	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	S4UL	3800	27		6.6	7.2	18	15	27
Organics - Banded TPH (unspeciated)									
EC >5-EC6 (unspeciated)	S4UL	160	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >6-EC7 (unspeciated)	S4UL	530	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >7-EC8 (unspeciated)	S4UL	530	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >08-EC10 (unspeciated)	S4UL	150	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >10-EC12 (unspeciated)	S4UL	770	5.2		< 1.0	< 1.0	< 1.0	5.2	4.5
EC >12-EC16 (unspeciated)	S4UL	2500	25		< 1.0	< 1.0	< 1.0	18	25
EC >16-EC21 (unspeciated)	S4UL	1900	110		18	23	31	60	110
EC >21-EC35 (unspeciated)	S4UL	1900	430		80	84	150	430	260

Acute human health risk (soils)

Scenario	Occupational exposure (construction worker)
Critical receptor	Adult female worker
Oral exposure	Ingestion of soil and dusts over a single working day
Demal exposure	Soil being left on the skin for several hours, assumed no PPE worn
Inhalation exposure	30 mins exposure - worker standing adjacent to active excavation (assumed no RPE)

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	WS01	WS02	WS04	WS05	WS06
					Depth (m)	0.20 - 0.40	0.10 - 0.20	0.30 - 0.50	0.10 - 0.30	0.10 - 0.30
					Date	28/11/23	28/11/23	28/11/23	28/11/23	28/11/23
Inorganics										
Arsenic	AGAC	Oral	7,000	120		22	27	43	29	120
Cadmium	AGAC	Oral	12,000	0.39		0.39	0.38	0.26	0.29	0.39
Cyanide - Free	AGAC	Oral & Inhalation	1,400	<LoD		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organics										
Phenol	AGAC	**sat.**	**sat.**	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Acute human health risk (soils)

Scenario	Off-site public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	N/A
Demal exposure	N/A
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	WS01	WS02	WS04	WS05	WS06
					Depth (m)	0.20 - 0.40	0.10 - 0.20	0.30 - 0.50	0.10 - 0.30	0.10 - 0.30
					Date	28/11/23	28/11/23	28/11/23	28/11/23	28/11/23
Inorganics										
Arsenic	AGAC	Inhalation	7,000,000	120		22	27	43	29	120
Cadmium	AGAC	Inhalation	1,800,000	0.39		0.39	0.38	0.26	0.29	0.39
Cyanide - Free	AGAC	Inhalation	380	<LoD		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organics										
Phenol	AGAC	**sat.**	**sat.**	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Phytotoxicity

Scenario										
Land use		Planting								
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	WS01	WS02	WS04	WS05	WS06	
				Depth (m)	0.20 - 0.40	0.10 - 0.20	0.30 - 0.50	0.10 - 0.30	0.10 - 0.30	
				Date	28/11/23	28/11/23	28/11/23	28/11/23	28/11/23	
Soil parameters										
pH	BSI-u	8.5	7.7		6.9	6.9	7.7	7.2	7.7	
pH	BSI-l	5.5	6.9		6.9	6.9	7.7	7.2	7.7	
Potentially toxic element										
Arsenic	SSIA	50			22	27	43	29	120	
Cadmium	SSIA	3	0.39		0.39	0.38	0.26	0.29	0.39	
Chromium (III)	SSIA	400	23		23	19	20	15	21	
Lead	SSIA	300	340		170	260	340	220	300	
Mercury	SSIA	1	0.74		0.48	0.74	0.46	0.34	0.55	
Selenium	SSIA	3	1.3		1.3	1.3	1.1	1.1	1.2	
Potentially toxic element (pH 6.0 to <7.0)										
Copper	SSIA	135	64		55	64				
Nickel	SSIA	75	28		26	28				
Zinc	SSIA	200	170		140	170				
Potentially toxic element (pH >7.0)										
Copper	SSIA	200	160				91	63	160	
Nickel	SSIA	110	45				45	24	37	
Zinc	SSIA	300	210				170	210	210	

Appendix H Consultants Coal Mining Report



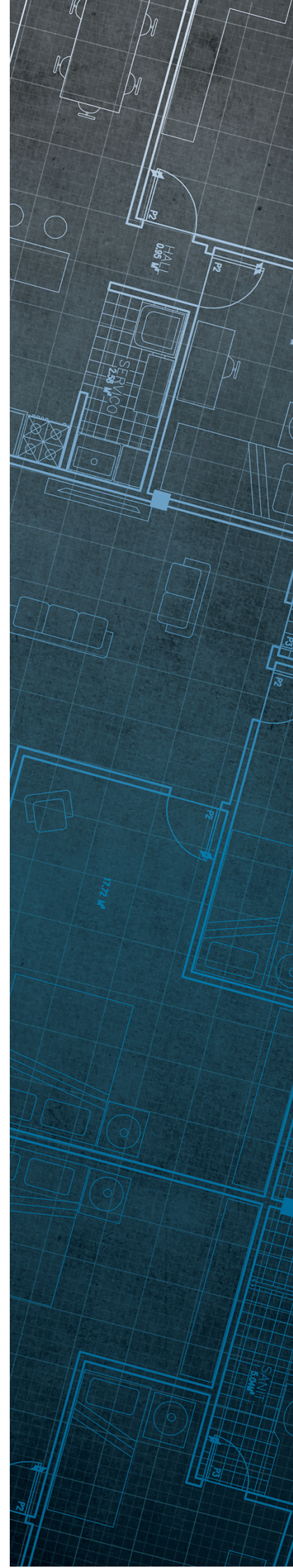
The Coal
Authority

Consultants Coal Mining Report

23-511 Pilsworth Road, Heywood
Heywood
Greater Manchester
OL10 3AD

Date of enquiry:	17 November 2023
Date enquiry received:	17 November 2023
Issue date:	17 November 2023

Our reference:	51003389920001
Your reference:	STV6300



Consultants

Coal Mining Report

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

Client name

Soiltechnics Limited

Enquiry address

23-511 Pilsworth Road, Heywood
Heywood
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OL10 3AD

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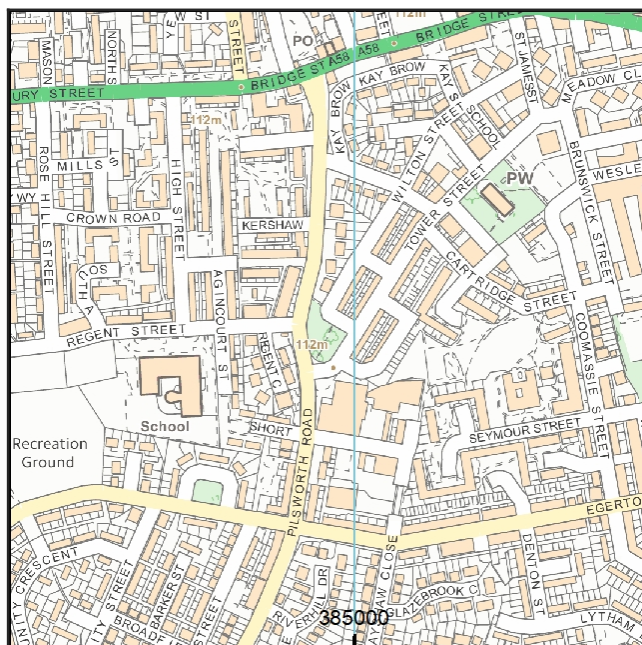
www.groundstability.com

 @coalauthority

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 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

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

16820		
-------	--	--

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

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Fault under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

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

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

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

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

Payments to owners of former copyhold land

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

Section 4 – Further information

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

Future development

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 specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

Opencast mines

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

Coal Authority managed tips

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

Site investigations

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

Remediated sites

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

Coal mining subsidence

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

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

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

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

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

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

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

Future underground mining

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

Coal mining licensing

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

Court orders

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

Section 46 notices

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

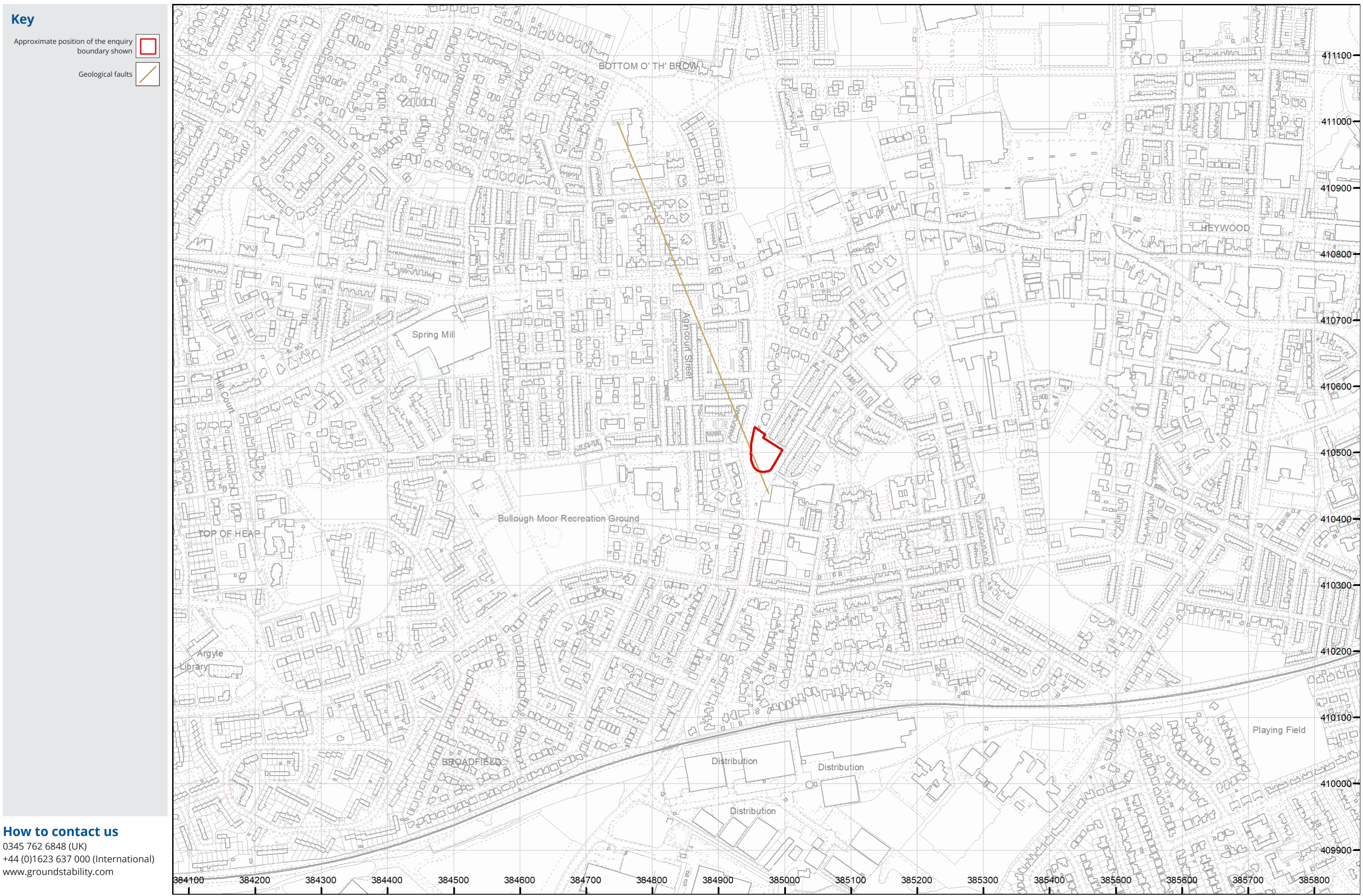
Withdrawal of support notices

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

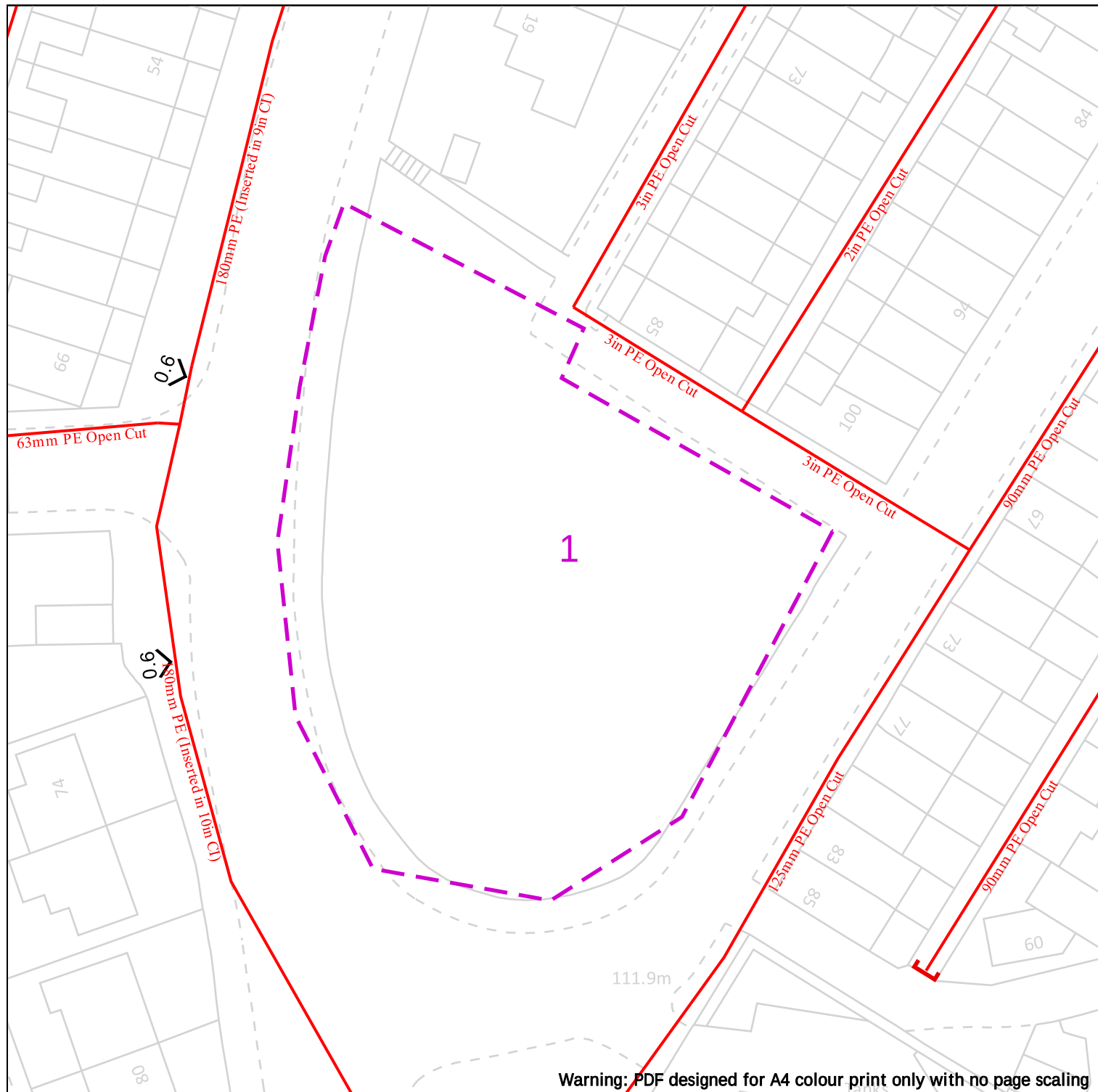
Payment to owners of former copyhold land

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

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

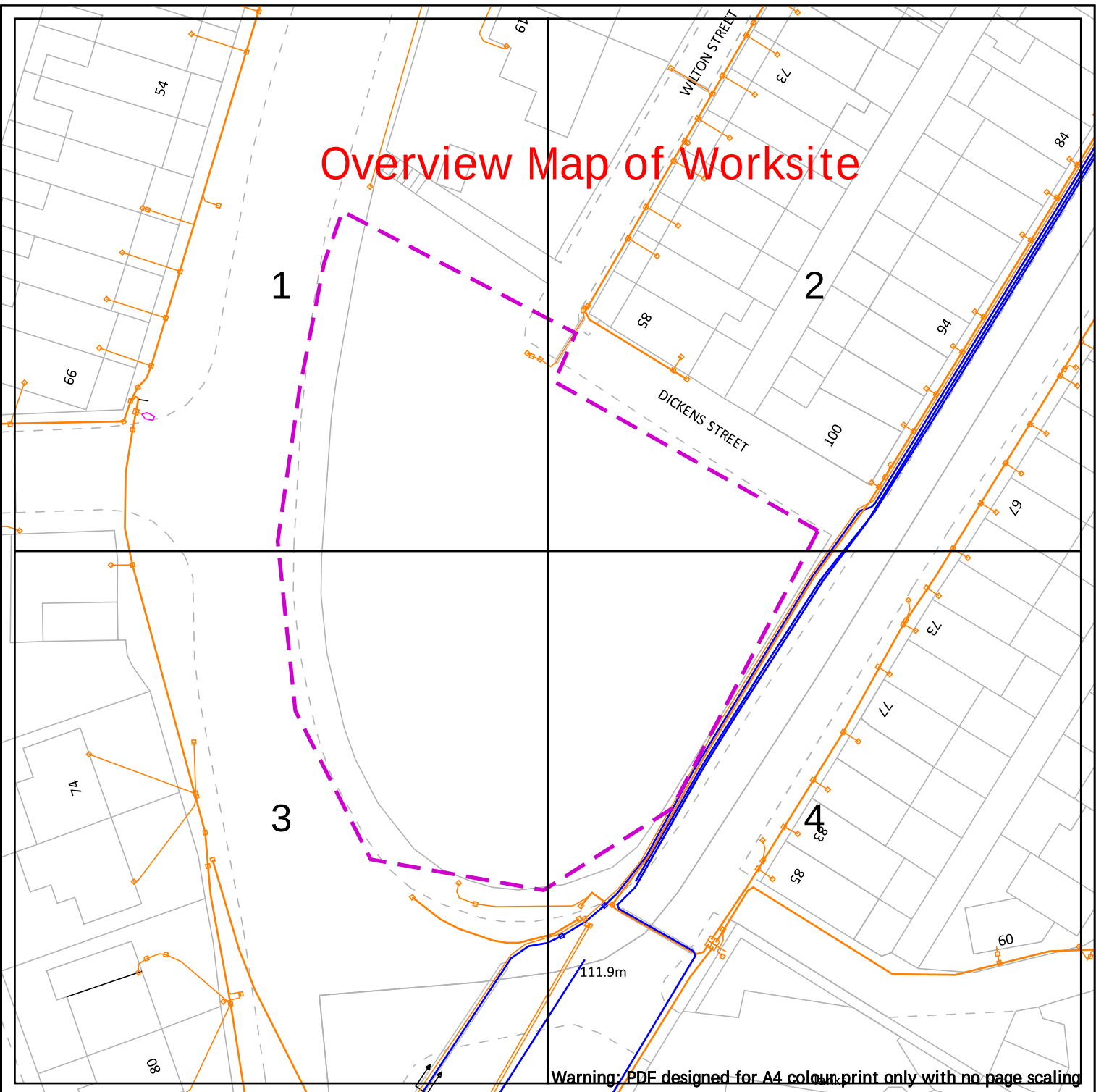


Appendix I Utility Service Plans



 Your Gas Network	<
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Overview Map of Worksite



Warning: PDF designed for A4 colour print only with no page scaling



Data Management
Electricity North West
Linley House
Dickinson Street
Manchester, M1 4LF
Phone: 0800 195 4141
Email: planrequest@enwl.co.uk

Operating Voltage

132kV
33kV
22kV-25kV
11kV
6kV-6.6kV
1kV-6kV
LV
Unknown Voltage

Colour Code

Black
Green
Yellow
Red
Blue
Violet
Orange
Brown

Line Colour



In an emergency call 105,
24 hours a day

Dig Sites

Line:
Area:

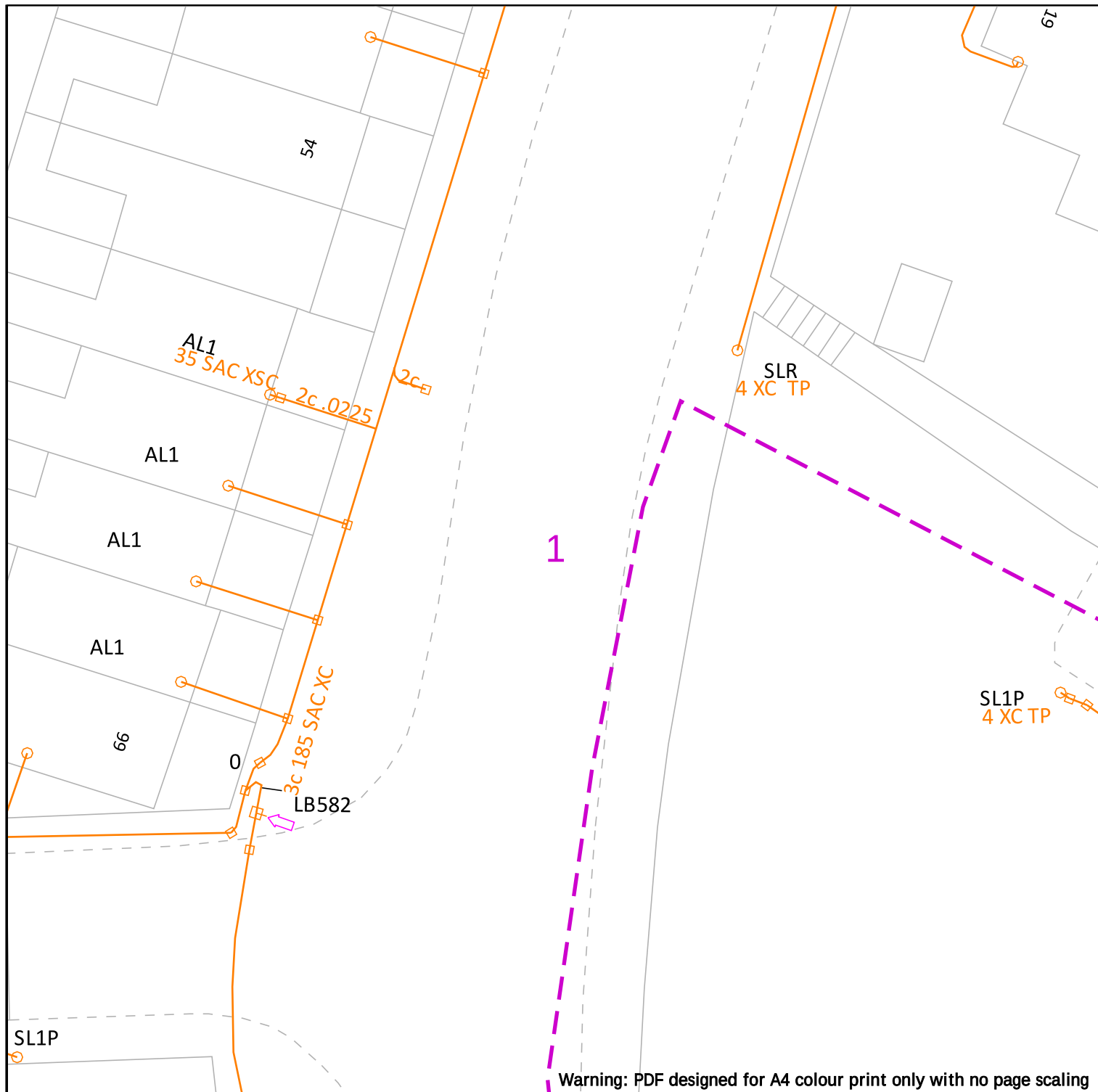
Date Requested: 17/11/2023
Job Reference: 31568427
Site Location: 384968 410495
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV6300

IMPORTANT INFO

Unless otherwise indicated the depth of Electricity North West Limited cables are in accordance with NJUG (450mm for Low Voltage & 600mm for 11kV cables) 33kV and 132kV cables are laid at depths as marked. The depth and positions of Electricity North West Limited equipment was accurate as shown when the equipment was installed. However third parties may have altered the level & other reference data. Therefore Electricity North West Limited accept no responsibility for the position of Electricity North West Limited equipment being different from shown. No person, body or company, shall be relieved from liability for damage caused to Electricity North West Limited equipment by reason of being located differently to the indications on this drawing or from any regulatory loss of income or incentive, or expense, which may be suffered by Electricity North West Limited and which is caused or contributed to by any loss of supply as a result of any damage caused to Electricity North West Limited's equipment. Service cables are not necessarily shown but must be assumed to exist to all premises, streetlights and signs. There may be other Electricity North West Limited apparatus in the vicinity which is not indicated on the cable records. Other apparatus may also be present which is owned by a third party other than Electricity North West Limited. Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoidance of Danger from Overhead Power Lines". Electricity North West Limited 304 Bridgewater Place, Birchwood Park, Warrington WA3 6XG. Registered in England and Wales. Registered No 02366949

Scale: 1:513 (When plotted at A4)

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Data Management
Electricity North West
Linley House
Dickinson Street
Manchester, M1 4LF
Phone: 0800 195 4141
Email: planrequest@enwl.co.uk

Operating Voltage

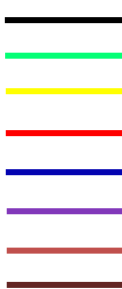
132kV
33kV
22kV-25kV
11kV
6kV-6.6kV
1kV-6kV
LV

Unknown Voltage

Colour Code

Black
Green
Yellow
Red
Blue
Violet
Orange
Brown

Line Colour



In an emergency call 105,
24 hours a day

Dig Sites

Line: - - - -

Area: [] [] [] []

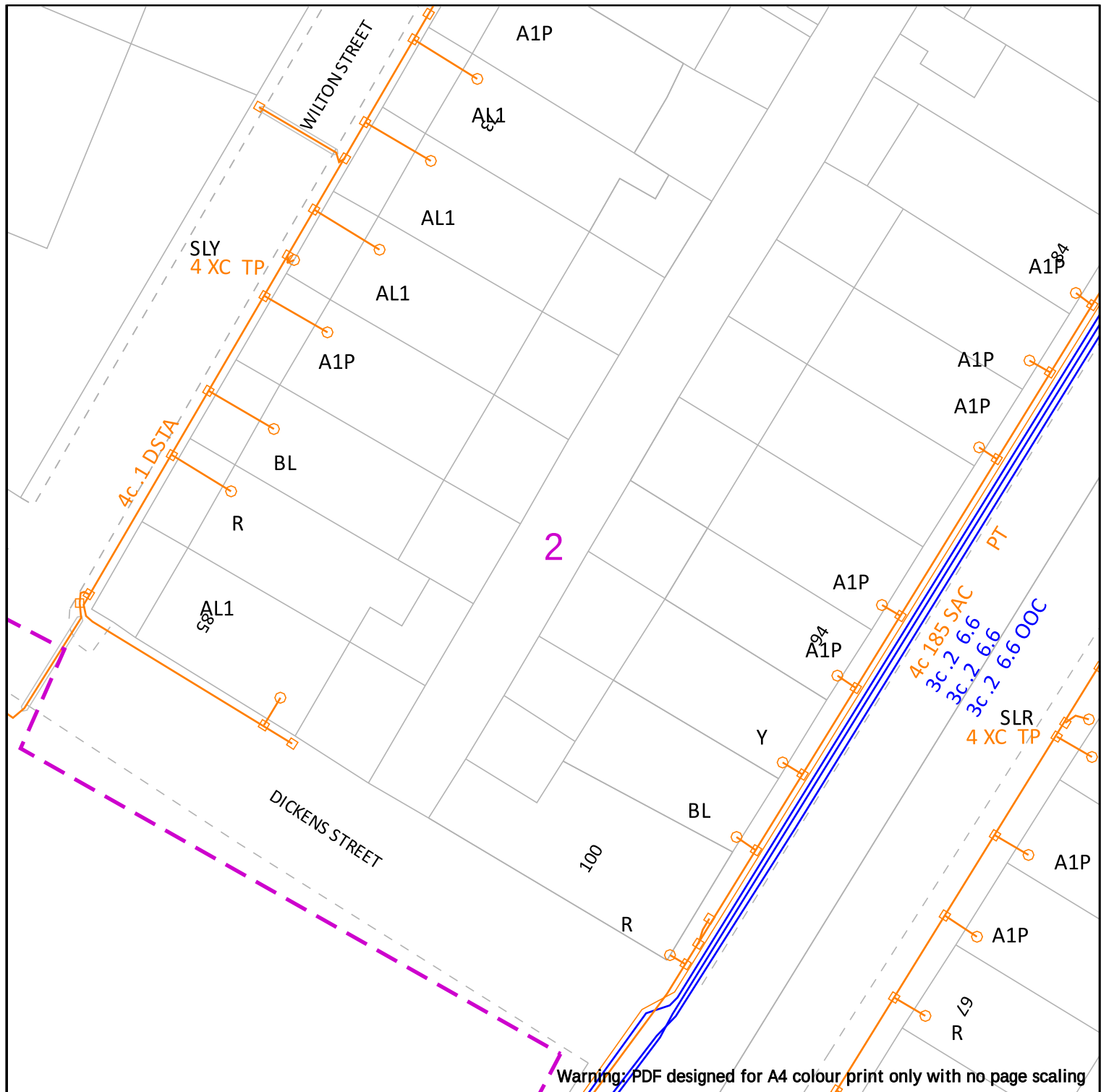
Date Requested: 17/11/2023
Job Reference: 31568427
Site Location: 384968 410495
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV6300

IMPORTANT INFO

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Scale: 1:250 (When plotted at A4)

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Data Management
Electricity North West
Linley House
Dickinson Street
Manchester, M1 4LF
Phone: 0800 195 4141
Email: planrequest@enwl.co.uk

Operating Voltage	Colour Code	Line Colour
132kV	Black	
33kV	Green	
22kV-25kV	Yellow	
11kV	Red	
6kV-6.6kV	Blue	
1kV-6kV	Violet	
LV	Orange	
Unknown Voltage	Brown	

In an emergency call 105,
24 hours a day

Dig Sites

Line:

Area:

Date Requested: 17/11/2023
Job Reference: 31568427
Site Location: 384968 410495
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV6300

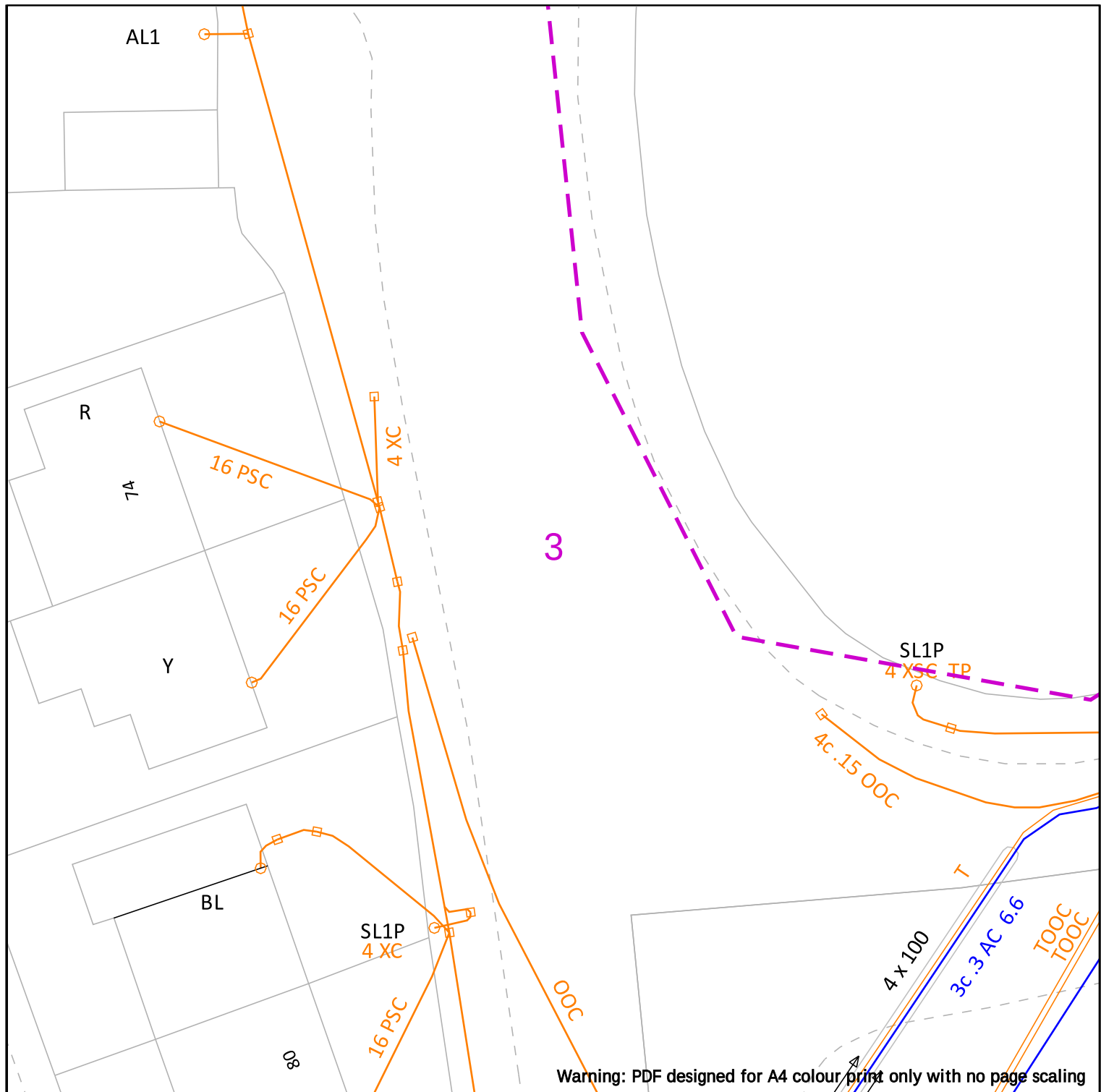
IMPORTANT INFO

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Operating Voltage

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Colour Code

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Line Colour



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24 hours a day

Dig Sites

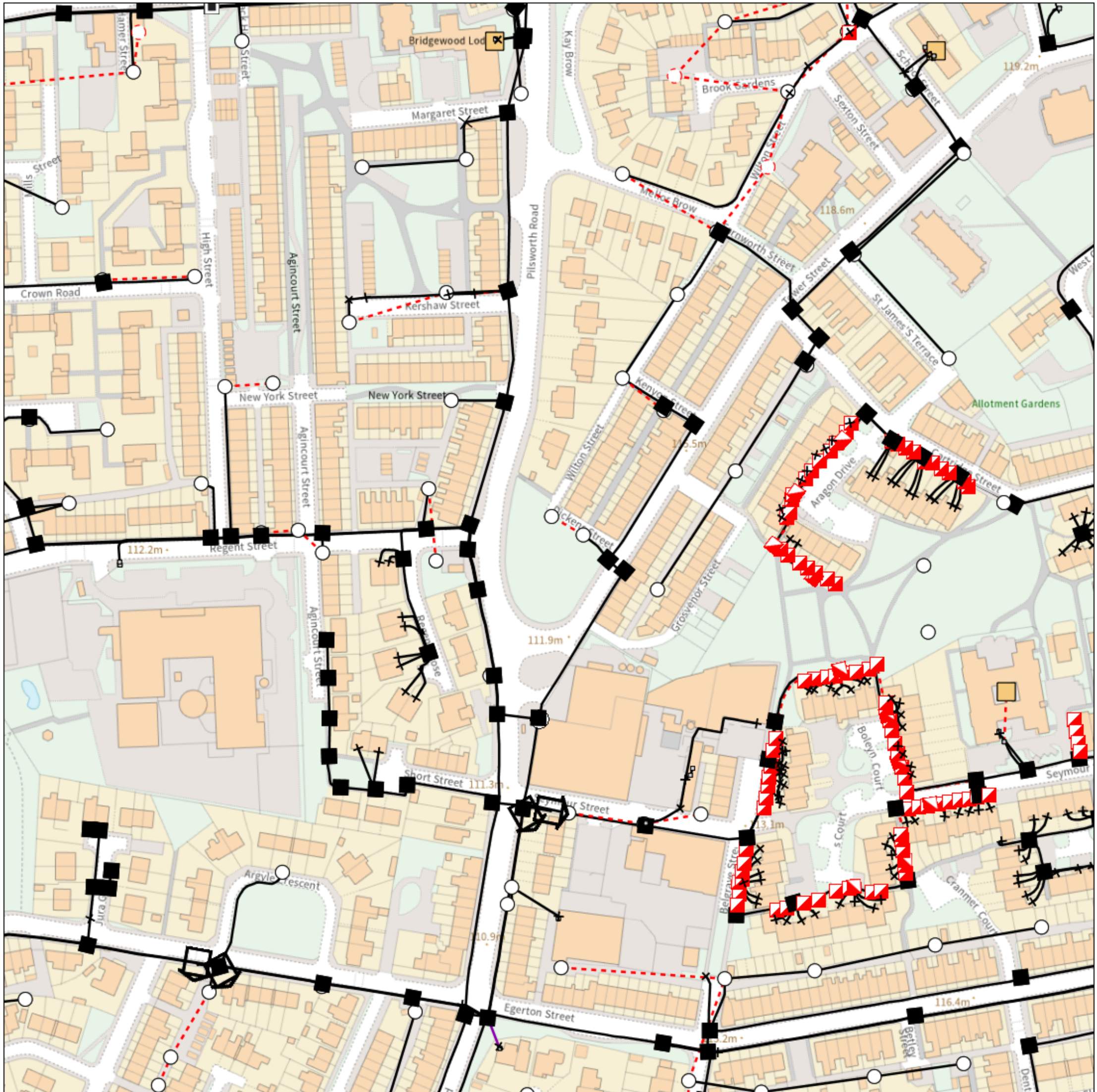
Line:
Area:

IMPORTANT INFO

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Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	X	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk	K	Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : LVB04557R

Map Reference : (centre) SD8496810505

Easting/Northing : (centre) 384968,410505

Issued : 16/11/2023 16:55:23

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

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Controller of Her Majesty's Stationary Office
(C) Crown Copyright British Telecommunications plc 100028040

Conditions and information regarding electricity mains

These general conditions and precautions apply to the electricity distribution system of Electricity North West Limited.

Please ensure that a copy of these conditions is passed to your representative and contractor on site.

1. There may be other Electricity North West Limited apparatus in the vicinity, which is not indicated on the cable records. Other apparatus may also be present which a third party owns other than Electricity North West Limited
2. Before any machines are used all of Electricity North West's underground apparatus should be located by manual excavation taking the appropriate safety precautions in accordance with the **Health and Safety Executive Guidance note HS(G)47 "Avoiding danger from underground services"**. This contains advice to site personnel when working near underground services.

Underground services, particularly electricity and gas, can be dangerous. Damage to electricity cables can cause a dangerous flash, leading to severe burns or even death. Gas leaks can cause fire or explosion.

Damage can result from excavation or penetration of the ground, e.g. by a road pin.

Underground services may be found in roads, footpaths and on sites. Always assume that they are present. Treat any services found anywhere as live.

Accidents have happened because people have mistaken one service for another, e.g. black plastic covered electricity cables look like black plastic water pipes and cast iron gas and water mains look alike. Check before you act.

3. Before starting work you must:
 - Make sure you have plans of the underground services in the area. This may not always be possible for emergency or unforeseen works. **Remember that service connection cables and pipes from the main to building or streetlight may not be shown.**
 - Use a cable and pipe locator to trace electricity cables and metal pipes.
 - Look for signs of service connection cables or pipes, e.g. a gas meter or service connection entry into a house or a streetlight.
 - Hand dig trial holes (as many as necessary) to confirm the position of services in close proximity to the area of work.

4. When you start work:

- Hand dig near buried services whenever possible. Spades and shovels are safer than picks, pins or forks.
- Remember that cables may be embedded in concrete. Electricity cables embedded in concrete **must** either be made dead before the concrete is broken out or another safe way of working agreed with the cable owner.
- Watch out for signs of services as work continues.
- Report damage to a cable, pipe or pipe coating however slight.
- Do not use hand held power tools within 0.5m of the marked position of an electricity cable, unless this is impracticable and the line of the cable has been identified by plans and positively confirmed by a locator.
- Do not use hand held power tools directly over the marked line of cable unless:
 - a) You have already found the cable at that position by careful hand digging beneath the surface and it is at a safe depth (at least 300mm) below the bottom of the surface to be broken, or
 - b) Physical means have been used to prevent the tool striking it.
- If an excavator is used near an electricity cable keep everyone clear of the bucket while it is digging. Buckets should not be used near cable – hand dig.
- Do not use exposed services as a convenient step or handhold.
- Do not handle or attempt to alter the position of an exposed service.
- Do not install plant close to an existing service.
- Do not build existing services into a manhole or other structure or encase them in concrete.

Would you also ensure that all site operators have this information and if any electrical apparatus is damaged, they/you should contact Electricity North West Limited fault desk on **0800 195 4141 (option 1)**

5. Overhead lines are not necessarily shown on the Electricity North West Limited cable records but may be present. In the event of work being carried out adjacent to overhead lines (including access, storage etc.) please always ensure strict adherence to the requirements of the **Health and Safety Executive's Document GS6 "Avoidance of Danger from Overhead Electric Lines"**.

Extreme personal danger can result from contact, or near contact, with live conductors or overhead lines.

Treat all overhead lines and other electrical apparatus as live. If in doubt, get advice.

6. Electricity North West Limited must be consulted if work is to take place within 15 metres of overhead lines on steel towers or 9 metres of overhead lines on wood, concrete or steel pylons. (All distances should be measure at ground level from a position estimated by eye to be vertically under the outermost conductor at a tower or pole position) Any person involved in work in the vicinity of overhead lines should:
- Understand and follow the instructions given on safe working areas and methods of work.
 - Make sure that warning notices are in the cabs of machines working in the vicinity of an overhead line.
 - Make sure that barriers and warning notices are erected as required.
 - Not tip soil or stack material underneath overhead lines as this may reduce the clearance to an unsafe distance.
 - Make sure when handling or using platforms, scaffold, poles, piping, ladders, hand tools etc., that they are kept at a safe distance from overhead lines.
 - Not steady a suspended load, skip, hoist wire, slings etc., unless satisfied that there isn't any danger from overhead lines.
 - Remember that when mobile plant, such as a crane or excavator, is operating near overhead lines, the raising or slewing of the jib may introduce danger.
 - Always keep overhead lines in view when manoeuvring mobile plant.
 - Never operate a machine unless carefully guided by an experienced banksman.
 - Not approach or touch any broken or fallen conductors or any plant in contact with an overhead line before Electricity North West Limited confirms that conditions are safe. Warn others to keep well clear.

Machine operators should note that: if a machine comes into contact with an overhead line and cannot be disentangled by backing off, remain seated in the cab and warn others to keep clear of the machine until Electricity North West Limited confirms that conditions are safe. If it is essential to

leave the machine while it is in contact with the overhead line, for example if it catches fire, jump well clear – and **do not** attempt to climb down in the normal way nor touch any part of the machine when on the ground.

7. Electricity North West Limited provides approximate locations of its electricity mains or apparatus according to its records but these records are not necessarily accurate or complete and do not always show the position of private cables from mains to properties. No person or company shall be relieved from liability for any damage caused by reason of the actual positions and/or depths being different from those indicated.

8. Care should be taken when excavating near cables. Known road crossings are highlighted on the enclosed plans. Should any cable, or Electricity North West Limited apparatus indicated on the attached plans, be affected by your proposals please contact us as follows:

Data Management
Linley House
Dickinson St
Manchester
M1 4LF

Telephone: **0800 195 4141 (option 2)**

Details of diversion costs, if any, will be provided on request once your firm proposals have been submitted.

9. Please note that service cables may be affected by some of the works being carried out on site.

If any services do require temporary disconnection please phone **0800 195 4141 (option 2)** for domestic and commercial disconnection, so that arrangement can be made to disconnect before work commences on site.

10. For information regarding supplies please contact us on **0800 195 4141 (option 2)**.

11. Please note that cable records supplied may not be up to date, or may be incomplete, if the area concerned is a new site.

12. For information regarding wayleave or easement agreements contact:

Manchester	08433 115157
Preston	08433 113969
Kendal	08433 115155

13. The latest cable records are always available for inspection during normal working hours and you should satisfy yourself that the information you have is up to date at the time you commence work. This service is consistent with the requirement of Regulation 36 of the Electricity Supply Regulations and paragraph 79 of the New Road and Street Works Act.

Please contact Data Management on **0800 195 4141 (option 2)** to arrange an appointment to view the records.

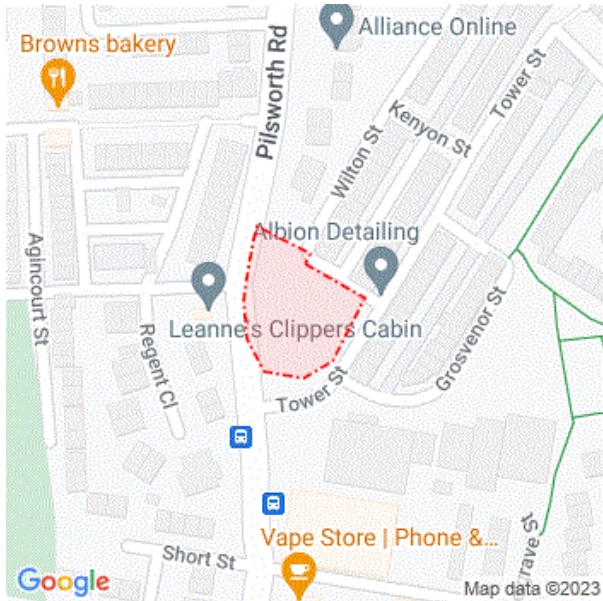


304 Bridgewater Place
Birchwood Park
Warrington
WA3 6XG

www.enwl.co.uk

Registered in England and Wales
Registered Number 2366949

Enquirer			
Name	Miss Lauren Wenham	Phone	01604 781877
Company	Soiltechnics Ltd	Mobile	Not Supplied
Address	Cedar Barn Cedar Barn White Lodge Walgrave Northamptonshire NN6 9PY		
Email	admin@soiltechnics.net		

Enquiry Details		Site Map
Enquiry type	Planned Works	
Work category	Development Projects	
Work type	Piling	
Work type buffer*	150 metres	
Start date	17/11/2023	
End date	17/11/2023	
Scheme/Reference	STV6300	
Search location	XY= 384968, 410505	
Confirmed location	384968 410495	
Site size	2013 metres square	
Site Contact Name	Rosie Dean	
Site Phone No.	01604781877	
Description of Works	Windowless Sampling boreholes	Please note that the above map only displays the location of the proposed work site and will not display any of the Members’ pipes and cables. It is imperative that this area accurately reflects the proposed work site.

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Affected LSBUD members (LSBUD Members who have assets registered on LSBUD within the vicinity of your search area.)			
Asset Owner	Phone/Email	Emergency Only	Status
Cadent Gas	0800688588	0800111999	Await response
Electricity North West Limited	08001954141	08001954141	Await response

Status explanation

Await Response means that the asset owner will contact you. This is typically by sending the plan response but they may ask for further information before being able to do so, particularly if any payments or authorisations are required.

Email Additional Info means that the asset owner needs further information about your works to assess your enquiry before providing a response. Please provide any details you have available including plans, method statements etc. if available.

Important notices

It is very important that you correctly understand what the service does and the procedures in order for you to work safely. Please refer to the LSBUD Support Page (www.lsbud.co.uk/lineasearchbeforeudig-support) for further guidance.

This information includes how to provide additional information to the LSBUD Members who request it to provide a response to your enquiry.

Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date and time of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LineasearchbeforeUdig (LSBUD) accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.lsbud.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

List of not affected LSBUD members (LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area.)

Angus Energy	AWE Pipeline	B & D Energy Limited
Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)	Box Broadband
BP Exploration Operating Company Limited	BPA	Cambridgeshire County Council Climate Change and Energy Services
CATS Pipeline c/o Wood Group PSN	Cemex	Centrica Storage Ltd
CNG Services Ltd	Concept Solutions People Ltd	ConocoPhillips (UK) Teesside Operator Ltd
D.S.Smith	Diamond Transmission Corporation	DIO (MOD Abandoned Pipelines)
DIO (MOD Live Pipelines)	E.ON UK CHP Limited	EDF Energy Renewables Ltd
EirGrid	Eleclink Limited	Energy Assets Networks
ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited	EP Langage Limited
ESB CCGT Power station (Carrington Gas Pipeline)	ESP Utilities Group	ESSAR
Esso Petroleum Company Limited	euNetworks Fiber UK Ltd	EXA Infrastructure
Exolum Pipeline System	Fulcrum Electricity Assets Limited	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Harbour Energy	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited
Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd	Kensa Utilities
Last Mile	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
Moray East Offshore Windfarm	MUA Group Limited	National Gas Transmission
National Grid Electricity Distribution	National Grid Electricity Transmission	National Grid Ventures
Neos Networks	Northern Gas Networks Limited	Northumbrian Water Group
NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd	NYnet Ltd
Ogi	Oikos Storage Limited	Ørsted
Palm Paper Ltd	Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos
Phillips 66	Portsmouth Water	Premier Transmission Ltd (SNIP)
Redundant Pipelines - LPDA	RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)
SABIC UK Petrochemicals	SAS Utility Services Ltd	Scottish and Southern Electricity Networks
Scottish Power Generation	Seabank Power Ltd	SES Water
SGN	Shell	Shell NOP
SP Energy Networks	Spring Fibre Limited	Squire Energy Networks
SSE Generation Ltd	SSE Transmission	SSE Utility Solutions Limited

Storengy	Tata Communications (c/o JSM Construction Ltd)	TfL – London Underground HV Cables (Road Side Cables)
Total Colnbrook Pipelines	Total Finaline Pipelines	Transmission Capital
Trojan Energy Limited	UK Power Networks	Uniper UK Ltd
University of Cambridge Granta Backbone Network	Vattenfall	Veolia ES SELCHP Limited
Veolia ES Sheffield Ltd	Voneus Limited	VPI Power Limited
Wales and West Utilities	West of Duddon Sands Transmission Ltd	Westminster City Council
Zayo Group UK Ltd c/o JSM Group Ltd		

Non-LSBUD members (Asset owners not registered on LSBUD)

(The following Non-LSBUD Members may have assets in your search area. It is YOUR RESPONSIBILITY to contact them before proceeding.

Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.)

Asset Owner	Preferred contact method	Phone	Status
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
Equans	nrsua.uk@equans.com	0800 130 3600	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Lumen Technologies	plantenquiries@ocugroup.com	02087314613	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Sky UK Limited	nrsua@sky.uk	02070323234	Not Notified
Sota	sota.plantenquiries@ocugroup.com		Not Notified
United Utilities	WastewaterDeveloperServices@uuplc.co.uk	08707510101	Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinsglobal.com	01454662881	Not Notified

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Soiltechnics

**Soiltechnics
Cedar Barn,
Walgrave,
NN6 9PY**

FAO:

How to contact us:

**United Utilities Water Limited
Property Searches
Haweswater House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP**

Telephone: 0370 7510101

E-mail: propertysearches@uuplc.co.uk

**Your Ref: STV6300
Our Ref: UUPS-ORD-531850
Date: 20/11/2023**

Dear Sirs

Location: 85 WILTON STREET, HEYWOOD, OL10 3EW

I acknowledge with thanks your request dated 16/11/2023 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. <http://www.unitedutilities.com/work-near-asset.aspx>.

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please [contact us](#).

Yours Faithfully,



Karen McCormack
Property Searches Manager

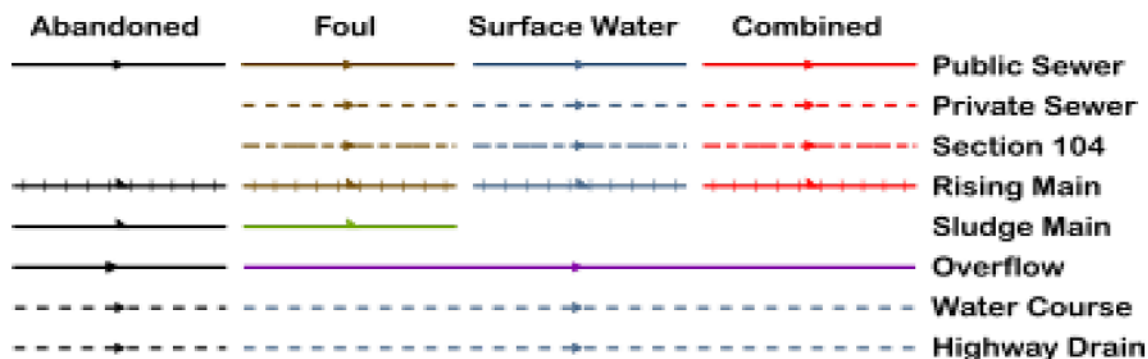
TERMS AND CONDITIONS - WASTEWATER AND WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

TERMS AND CONDITIONS:

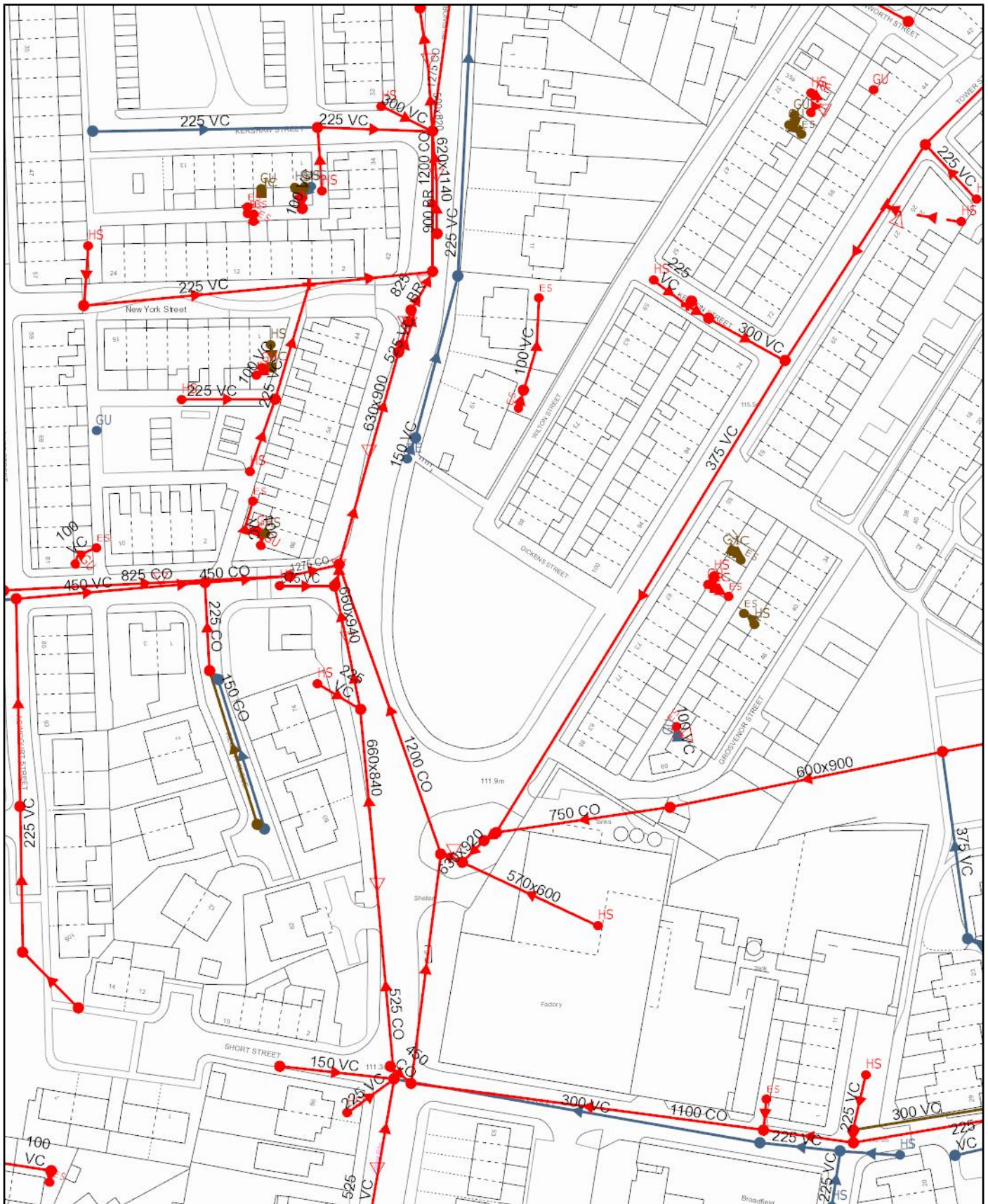
- This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
- This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
- In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
- The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
- The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
- This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
- No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

Wastewater Symbolology



All point assets follow the standard colour convention: **red** – combined **brown** - foul
blue – surface water **purple** - overflow

Manhole	Side Entry Manhole
Head of System	Outfall
Extent of Survey	Screen Chamber
Rodding Eye	Inspection Chamber
Inlet	Bifurcation Chamber
Discharge Point	Lamp Hole
Vortex	T Junction / Saddle
Penstock	Catchpit
Washout Chamber	Valve Chamber
Valve	Vent Column
Air Valve	Vortex Chamber
Non Return Valve	Penstock Chamber
Soakaway	Network Storage Tank
Gully	Sewer Overflow
Cascade	Ww Treatment Works
Flow Meter	Ww Pumping Station
Hatch Box	Septic Tank
Oil Interceptor	Control Kiosk
Summit	
Drop Shaft	Change of Characteristic
Orifice Plate	



Scale: 1:1250
Date: 20/11/2023

SEWER RECORDS



Water for the North West

Address or Site Reference: 85 WILTON STREET, HEYWOOD, OL10 3EW

Printed by: Property Searches

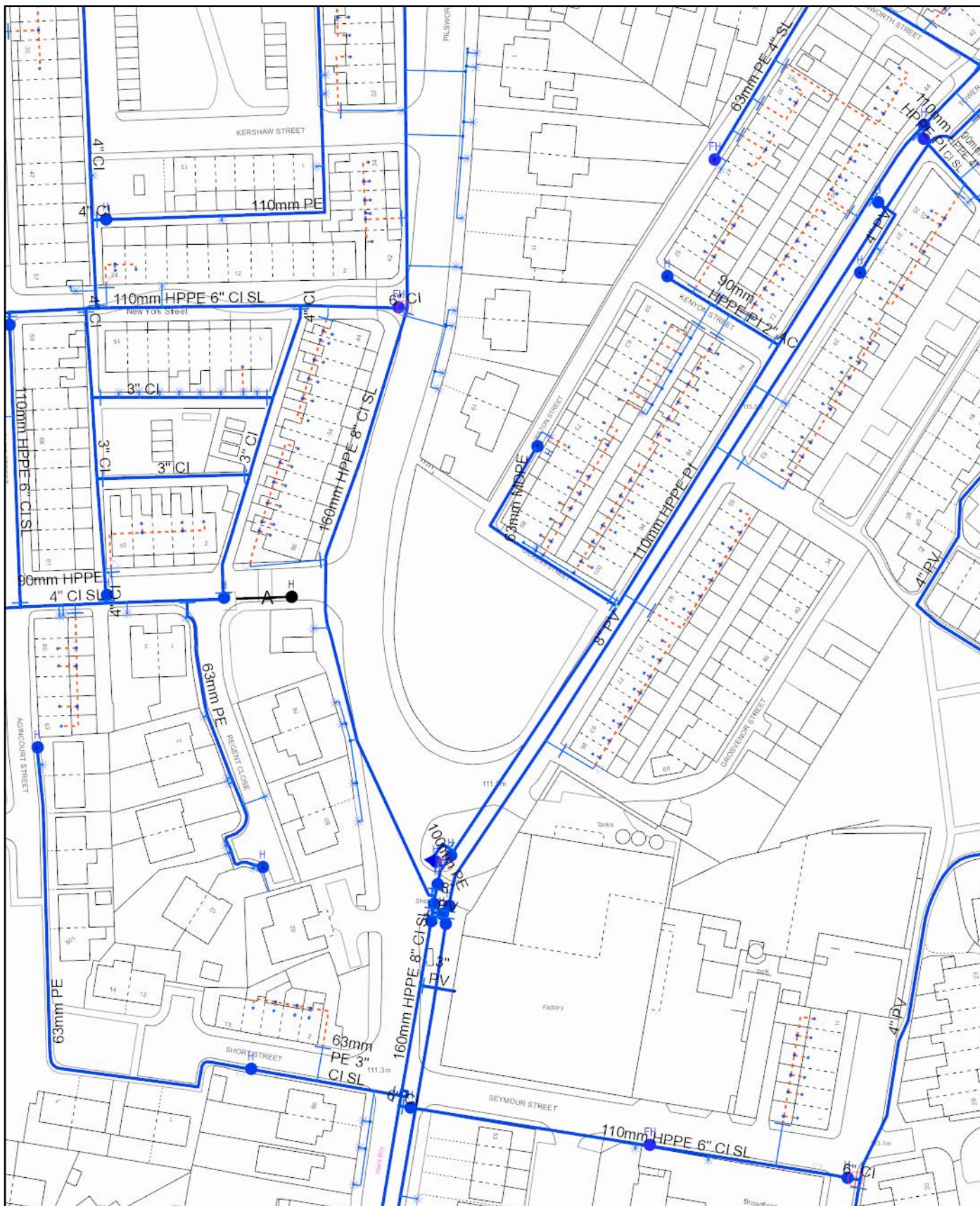
The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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Clean Water Symbolology

Proposed	Abandoned	Live	
			Distribution Main
			Trunk Main
			Comms Pipe
			Private Pipe
			Concessionary Service
			Raw Water
			LDTM Raw Water
			LDTM Treated Water
			Air Valve
			AC Valve, open
			AC Valve, closed
			CC Valve, open
			CC Valve, closed
			Non Return Valve
			Pressure Management Valve
			OMS Valve
			Stop Tap
			Flow Meter
			Domestic Meter
			Commercial Meter
			Pump
			Hydrant
			Fire Hydrant
			Anode
			Chlorination Point
			De-chlorination Point
			Strainer Point
			Access Point
			Hatch Box
			IP Point
			Sampling Station
			Logger Box
			Bore Hole
			Inlet Point
			Bulk Supply Point
			End Cap
			Site Termination
			Change of Characteristic
			Condition Report
			<u>Property Types</u>
			Water Tower
			Valve House
			Booster Pumping Station
			Intake Pumping Station
			Water Treatment Works
			Supply Reservoir
			Service Reservoir
			Impounding Reservoir
			Pipe Bridge

Symbology for proposed assets is the same as above, but shown in **green**
 Symbology for abandoned assets is the same as above, but shown in **black**



Scale: 1:1250
Date: 20/11/2023

WATER MAINS RECORDS

Address or Site Reference: 85 WILTON STREET, HEYWOOD, OL10 3EW
Printed by: Property Searches



The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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Appendix J Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

325232792_1_1

Customer Reference:

POR017084

National Grid Reference:

384970, 410500

Slice:

A

Site Area (Ha):

0.2

Search Buffer (m):

1000

Site Details:

23-511 Pilsworth Road
HEYWOOD

Client Details:

Ms S Ltd
Soiltechnics Limited
Cedar Barn
White Lodge
Walgrave
Northampton
NN6 9PY

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	18
Hazardous Substances	25
Geological	26
Industrial Land Use	32
Sensitive Land Use	58
Data Currency	59
Data Suppliers	66
Useful Contacts	67

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Radon Potential dataset Copyright Notice

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices	pg 2			1	
Discharge Consents	pg 3				14
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 6				1
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 6			1	3
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 7		Yes		
Pollution Incidents to Controlled Waters	pg 7				7
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 8				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 8				(*29)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 16	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 16	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 16	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 16				6

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 18				1
Historical Landfill Sites	pg 18				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 18			2	3
Local Authority Landfill Coverage	pg 19	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 19			3	7
Potentially Infilled Land (Water)	pg 20		14	9	40
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 23				2
Registered Waste Treatment or Disposal Sites	pg 24		1	1	
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 25				1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 26	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 26	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 29			2	5
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 30	Yes	n/a	n/a	n/a
Mining Instability	pg 30	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 30	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 30	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 30	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 31	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 32		10	51	101
Fuel Station Entries	pg 46				2
Points of Interest - Commercial Services	pg 46		4	27	31
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 51		8	14	33
Points of Interest - Public Infrastructure	pg 56			1	6
Points of Interest - Recreational and Environmental	pg 56		2	4	6
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 58				1
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (NW)	0	1	384968 410504
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	4	1	385000 410504
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (E)	5	1	385000 410500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (N)	121	1	385000 410650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	166	1	384800 410600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	175	1	385100 410350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	212	1	385150 410650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	221	1	384968 410250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	233	1	384750 410650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	249	1	384700 410504
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	262	1	384700 410600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (W)	265	1	384700 410400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	278	1	384700 410650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	302	1	384700 410700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	302	1	384650 410550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	321	1	384968 410150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	331	1	384700 410750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	346	1	385100 410150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	349	1	384600 410504
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	360	1	384600 410600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	367	1	385150 410150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	387	1	385250 410200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (SE)	408	1	385350 410300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	420	1	384550 410650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	436	1	384650 410850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	441	1	384600 410800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	449	1	384500 410500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	451	1	384500 410450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	471	1	384500 410350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	471	1	384968 410000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	472	1	385000 410000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	476	1	384900 410000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	479	1	385200 410050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	488	1	384500 410300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	489	1	385100 410000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	494	1	385300 410100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9NW (SE)	494	1	385350 410150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	499	1	384450 410500
1	Contaminated Land Register Entries and Notices Location: Bay Street Allotments, Land Opposite Bay And Ash Street, Heywood Notice Type: Remediation Statement - Remediation Work Completed Reference: CL021 Dated: 20th June 2012 Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A18SW (N)	489	2	384834 411012

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Peel Lane No 2 Cso Peel Lane, ., Heywood, Greater Manchester, OL10 4ps Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01ROC0165 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 31st March 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Wrigley Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A18NW (N)	680	3	384850 411210
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Peel Lane No. 1 Rear Of Appleton Court, Off Peel Lane, Heywood, Rochdale, OL10 4ps Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01ROC0119 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 24th October 2004 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Roch Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A18NW (N)	707	3	384810 411230
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Peel Lane Cso No. 1 Rear Of Appleton Court, Off Peel Lane, Heywood, Rochdale, OL10 4ps Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01roc0119 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: Not Supplied Revocation Date: 31st December 1994 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Not Supplied Environment: Receiving Water: Not Supplied Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A18NW (N)	707	3	384810 411230
3	Discharge Consents Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Peel Lane Cso No. 1 Rear Of Appleton Court, Off Peel Lane, Heywood, Rochdale, OL10 4ps Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01roc0119 Permit Version: 3 Effective Date: 25th October 2004 Issued Date: 25th October 2004 Revocation Date: 10th December 2019 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Roch Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 10m	A18NW (N)	821	3	384740 411330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Peel Lane Cso No. 1 Rear Of Appleton Court, Off Peel Lane, Heywood, Rochdale, OL10 4ps Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016993593 Permit Version: 1 Effective Date: 11th December 2019 Issued Date: 11th December 2019 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Roch Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A18NW (N)	824	3	384747 411335
3	Discharge Consents Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Peel Lane Cso No. 1 Rear Of Appleton Court, Off Peel Lane, Heywood, Rochdale, OL10 4ps Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016993593 Permit Version: 1 Effective Date: 11th December 2019 Issued Date: 11th December 2019 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Roch Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A18NW (N)	824	3	384747 411335
3	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Peel Lane No 2 Cso Peel Lane, ., Heywood, Greater Manchester, OL10 4ps Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01roc0165 Permit Version: 2 Effective Date: 1st April 2018 Issued Date: 12th March 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Roch Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A18NW (N)	824	3	384747 411335
4	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Parkway, Higher Blackly, Rochdale, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01man0138 Permit Version: 1 Effective Date: 15th September 1993 Issued Date: Not Supplied Revocation Date: 15th September 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Irk Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	854	3	384620 409690

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Heywood (Botany Stw) Cso Gristlehurst Wood, Track Rear Of Appleton Court, Heywood, Rochdale, Old10 4ps Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016950082 Permit Version: 2 Effective Date: 1st July 2005 Issued Date: 1st July 2005 Revocation Date: 28th April 2014 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Roch Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18NW (N)	974	3	384640 411460
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Heywood (Botany Stw) Cso Gristlehurst Wood, Track Rear Of Appleton Court, Heywood, Rochdale, Old10 4ps Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016950082 Permit Version: 4 Effective Date: 20th December 2019 Issued Date: 20th December 2019 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Roch Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A18NW (N)	980	3	384647 411468
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Heywood (Botany Stw) Cso Gristlehurst Wood, Track Rear Of Appleton Court, Heywood, Rochdale, Old10 4ps Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016950082 Permit Version: 3 Effective Date: 29th April 2014 Issued Date: 29th April 2014 Revocation Date: 19th December 2019 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Roch Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A18NW (N)	980	3	384642 411467
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: John Street Cso 35020 31 John Street, ., Heywood, Greater Manchester, OL10 4ll Authority: Environment Agency, North West Region Catchment Area: Roch Reference: 01ROC0034 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 19th January 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Millers Brook Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	975	3	385830 411010

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: John Street Cso 35020 31 John Street, ., Heywood, Greater Manchester, OL10 4ll Authority: Environment Agency, North West Region Catchment Area: Roch Reference: 016993768 Permit Version: 2 Effective Date: 4th June 2018 Issued Date: 4th June 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Millers Brook Via Sws Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	977	3	385835 411005
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Heywood Sso, John Street/Willow Street, Heywood, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016950219 Permit Version: 1 Effective Date: 31st July 1981 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Millers Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	979	3	385840 411000
7	Integrated Pollution Prevention And Control Name: Urban Reserve (Assetco) Limited Location: Pilsworth Power, Heywood Distribution Park, Pilsworth Road, Broadfield,, Rochdale, OL10 2TL Authority: Environment Agency, North West Region Permit Reference: RP3006PB Original Permit Ref: Rp3006pb Effective Date: 16th January 2020 Status: Effective Application Type: Application App. Sub Type: New Positional Accuracy: Located by supplier to within 10m Activity Code: 25B (3)(1)(a) Activity Description: Tranche B SG permitting date 1st January 2019 Primary Activity: N Activity Code: 25A (a) Activity Description: New Medium Combustion Plant Primary Activity: Y	A8NW (S)	591	3	384780 409910
8	Local Authority Pollution Prevention and Controls Name: Period Design Ltd Location: Spring Mill, Moor Street, HEYWOOD, Lancashire, OL10 3DD Authority: Rochdale Metropolitan Borough Council, Environmental Health Department Permit Reference: 39 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/2 Manufacture of timber and wood-based products Status: Authorised Positional Accuracy: Automatically positioned to the address	A12NE (W)	458	2	384516 410670
9	Local Authority Pollution Prevention and Controls Name: Johnsons Dry Cleaners Location: 28 Market Place, Heywood, OL10 Authority: Rochdale Metropolitan Borough Council, Environmental Health Department Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning Status: Application Not Yet Authorised Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	612	2	385520 410821

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Local Authority Pollution Prevention and Controls Name: Morrisons Petrol Station Location: Dawson Street, Heywood, ROCHDALE, Lancashire, OL10 4PU Authority: Rochdale Metropolitan Borough Council, Environmental Health Department Permit Reference: 93/09 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	678	2	385449 411008
11	Local Authority Pollution Prevention and Controls Name: Inx International Ltd Location: Hareshill Distribution Centre, Hilltop Road, Heywood, Lancashire, OL10 2tw Authority: Rochdale Metropolitan Borough Council, Environmental Health Department Permit Reference: 138/13 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/44 Manufacture of coating materials Status: Permitted Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	972	2	384871 409504
	Nearest Surface Water Feature	A13SW (W)	222	-	384735 410437
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Affected; Chemical Spill Incident Date: 21st December 1996 Incident Reference: 96622570 Catchment Area: Roch Receiving Water: Not Given Cause of Incident: Fire Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	604	3	385600 410500
13	Pollution Incidents to Controlled Waters Property Type: Other Location: Council Tip , Peel Street, HEYWOOD Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Fire water / Foam Note: Roch; Fire Water Incident Date: 1st June 1997 Incident Reference: 97621085 Catchment Area: Roch Receiving Water: Freshwater Stream/River Cause of Incident: Fire Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	759	3	384900 411295
13	Pollution Incidents to Controlled Waters Property Type: Other Location: Pell Lane , HEYWOOD Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Fire water / Foam Note: Fire Water; Roch; Fire Water Incident Date: 13th July 1997 Incident Reference: 97621267 Catchment Area: Roch Receiving Water: Freshwater Stream/River Cause of Incident: Fire Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	764	3	384900 411300
14	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Yeagate Industrial Estate, HEYWOOD Authority: Environment Agency, North West Region Pollutant: Chemicals - Detergents/Surfactant Note: Sent Bk; Detergent / Foam Incident Date: 26th April 1997 Incident Reference: 97620743 Catchment Area: Roch Receiving Water: Freshwater Stream/River Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	954	3	384400 409700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Pollution Incidents to Controlled Waters Property Type: Other Premises Location: Heywood Distribution Park, Heywood, ROCHDALE, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Red Gas Oil Note: Not Supplied Incident Date: 21st October 1999 Incident Reference: 33933 Catchment Area: Roch Receiving Water: River Stretch (Freshwater) Cause of Incident: Structural Failure : Pipe Failure (Below Ground) Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	958	3	384400 409695
15	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: River Roch Incident Date: 27th June 1995 Incident Reference: 95621570 Catchment Area: Roch Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	964	3	384900 411500
16	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 3rd December 1995 Incident Reference: 95622902 Catchment Area: Roch Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	995	3	384700 411500
	River Quality Name: Roch GQA Grade: River Quality C Reach: Rochdale Stw To Irwell Estimated Distance (km): 15.2 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A18NW (N)	809	3	384747 411320
	Water Abstractions Operator: G. S. Cold Storage And Warehousing Ltd. Licence Number: 2569002082 Permit Version: 102 Location: Boreholes (2) At Premises, Roeacre Tannery, Heywood, L\$97 Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises, Roeacre Tannery, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NW (E)	1207	3	386200 410600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Litton Ltd Licence Number: 2569002082 Permit Version: 101 Location: Boreholes (2) At Premises, Roeacre Tannery, Heywood, L\$97 Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Premises, Roeacre Tannery, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd June 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NW (E)	1207	3	386200 410600
	Water Abstractions Operator: Roe Acre Dyeing & Felting Co. Ltd. Licence Number: 2569002022 Permit Version: Not Supplied Location: Reservoir Fed By Roe Acre Brook, Roe Acre Dam, HEYWOOD Authority: Environment Agency, North West Region Abstraction: Boiler Feed & Manufacturing Abstraction Type: Not Supplied Source: River Daily Rate (m3): 2309 Yearly Rate (m3): 340950 Details: Additional Purpose: Boiler feed; Licence Status: Revoked 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	A15NW (E)	1219	3	386200 410695
	Water Abstractions Operator: G. S. Cold Storage And Warehousing Ltd. Licence Number: 2569002082 Permit Version: 102 Location: Boreholes (2) At Premises, Roeacre Tannery, Heywood Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises, Roeacre Tannery, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NW (E)	1220	3	386200 410700
	Water Abstractions Operator: Litton Ltd Licence Number: 2569002082 Permit Version: 101 Location: Boreholes (2) At Premises, Roeacre Tannery, Heywood Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 546 Yearly Rate (m3): 134016 Details: Premises, Roeacre Tannery, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd June 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NW (E)	1220	3	386200 410700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mutual Mills Ltd Licence Number: 2569002124 Permit Version: Not Supplied Location: Millers Brook, HEYWOOD, Lancashire Authority: Environment Agency, North West Region Abstraction: Boiler Feed & Drinking; Cooking; Sanitary; Washing For Industrial Premises Abstraction Type: Not Supplied Source: River Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Additional Purpose: Domestic - industrial; Licence Status: Revoked 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	A20NW (NE)	1222	3	386000 411200
	Water Abstractions Operator: Mutual Mills Ltd Licence Number: 2569002124 Permit Version: Not Supplied Location: Two Reservoirs & Millers Brook, HEYWOOD, Lancashire Authority: Environment Agency, North West Region Abstraction: Boiler Feed & Drinking; Cooking; Sanitary; Washing For Industrial Premises Abstraction Type: Not Supplied Source: River Daily Rate (m3): 45 Yearly Rate (m3): 7274 Details: Additional Purpose: Domestic - industrial; Licence Status: Revoked 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	A20NW (NE)	1391	3	386200 411200
	Water Abstractions Operator: Oak Brewing Company Ltd Licence Number: 2569002029 Permit Version: 100 Location: Borehole At Premises, Green Lane, Heywood Authority: Environment Agency, North West Region Abstraction: Food And Drink: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 218 Yearly Rate (m3): 79646 Details: Premises At Green Lane, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th November 1990 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10NE (E)	1557	3	386500 410100
	Water Abstractions Operator: Tarmac Topmix Ltd Licence Number: 2569002257 Permit Version: 100 Location: Borehole At Green Lane, Heywood Authority: Environment Agency, North West Region Abstraction: Construction: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 35 Yearly Rate (m3): 10000 Details: Land & Prems-Green Lane, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th June 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1730	3	386700 410200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Devon Valley Limited Licence Number: 2569002255 Permit Version: 103 Location: Naden Brook At Simpson Clough, Heywood Authority: Environment Agency, North West Region Abstraction: Paper And Printing: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Simpson Clough Mill, Heywood, Lancs. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd May 2023 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1740	3	385360 412230
	Water Abstractions Operator: Union Papertech Limited Licence Number: 2569002255 Permit Version: 102 Location: Naden Brook At Simpson Clough, Heywood Authority: Environment Agency, North West Region Abstraction: Paper And Printing: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Simpson Clough Mill, Heywood, Lancs. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1740	3	385360 412230
	Water Abstractions Operator: J R Crompton Ltd Licence Number: 2569002255 Permit Version: 101 Location: Naden Brook At Simpson Clough, Heywood Authority: Environment Agency, North West Region Abstraction: Paper And Printing: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Simpson Clough Mill, Heywood, Lancs. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th October 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1740	3	385360 412230
	Water Abstractions Operator: K. Shaw & Company Ltd. Licence Number: 2569002037 Permit Version: 100 Location: Borehole At Premises, Crimble Mills, Heywood Authority: Environment Agency, North West Region Abstraction: Textiles & Leather: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 873 Yearly Rate (m3): 227304 Details: Crimble Mills, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st October 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25SE (NE)	1861	3	386500 411600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: K.Shaw & Company Ltd. Licence Number: 2569002037 Permit Version: 100 Location: Borehole At Premises, Crimble Mills, Heywood Authority: Environment Agency, North West Region Abstraction: Textiles And Leather: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Crimble Mills, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st October 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SE (NE)	1861	3	386500 411600
	Water Abstractions Operator: Roe Acre Dyeing & Finishing Co Ltd Licence Number: 2569002028 Permit Version: Not Supplied Location: River Roch, Crimble Mills, HEYWOOD Authority: Environment Agency, North West Region Abstraction: Boiler Feed Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 55 Yearly Rate (m3): 18184 Details: Licence Status: Revoked 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	A25SE (NE)	1862	3	386505 411595
	Water Abstractions Operator: North West Water Ltd Licence Number: 2569002263 Permit Version: Not Supplied Location: Cheesden Brook, Simpson Clough, HEYWOOD Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Unknown Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Licence Status: Cancelled 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	(N)	1879	3	385200 412400
	Water Abstractions Operator: Devon Valley Limited Licence Number: 2569002166 Permit Version: 102 Location: Cheesden Brook At Simpson Clough Heywood Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Simpson Clough, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd May 2023 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1894	3	385300 412400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Devon Valley Limited Licence Number: 2569002166 Permit Version: 102 Location: Cheesden Brook At Simpson Clough Heywood Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Simpson Clough, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd May 2023 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1894	3	385300 412400
	Water Abstractions Operator: Union Papertech Limited Licence Number: 2569002166 Permit Version: 101 Location: Cheesden Brook At Simpson Clough Heywood Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Simpson Clough, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1894	3	385300 412400
	Water Abstractions Operator: Union Papertech Limited Licence Number: 2569002166 Permit Version: 101 Location: Cheesden Brook At Simpson Clough Heywood Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Simpson Clough, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1894	3	385300 412400
	Water Abstractions Operator: J R Crompton Ltd Licence Number: 2569002166 Permit Version: 100 Location: Cheesden Brook At Simpson Clough Heywood Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 6219 Yearly Rate (m3): 2136620 Details: Premises At Simpson Clough, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st May 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1894	3	385300 412400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: J R Crompton Ltd Licence Number: 2569002166 Permit Version: 100 Location: Cheesden Brook At Simpson Clough Heywood Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Simpson Clough, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st May 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1894	3	385300 412400
	Water Abstractions Operator: Roe Acre Dyeing & Felting Co Ltd Licence Number: 2569002270 Permit Version: 100 Location: River Roch At Heywood Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Boiler Feed Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Crimble Mill, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th June 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20NE (NE)	1905	3	386620 411500
	Water Abstractions Operator: Roe Acre Dyeing & Felting Co Ltd Licence Number: 2569002270 Permit Version: 100 Location: River Roch At Heywood Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Crimble Mill, Heywood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th June 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20NE (NE)	1905	3	386620 411500
	Water Abstractions Operator: Roe Acre Dyeing & Finishing Co Ltd Licence Number: 2569002266 Permit Version: Not Supplied Location: Crimble Mill, Crimble Lane, HEYWOOD, Lancashire, OL10 4DJ Authority: Environment Agency, North West Region Abstraction: Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 455 Yearly Rate (m3): 118300 Details: Unnamed Tributary Of River Roch; Textiles; Type: Abstraction; Status: Current 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	(NE)	1925	3	386700 411400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Melba Products Limited Licence Number: 2569002149 Permit Version: Not Supplied Location: Four Reservoirs Fed By Spring, & Surface Drainage Authority: Environment Agency, North West Region Abstraction: Boiler Feed & Manufacturing Abstraction Type: Not Supplied Source: River Daily Rate (m3): 273 Yearly Rate (m3): 68190 Details: Additional Purpose: Boiler feed; Licence Status: Revoked 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	A21NE (NW)	1942	3	383800 412100
	Water Abstractions Operator: A Cleasby Ltd Licence Number: 2569002267 Permit Version: 100 Location: Borehole At Lower Tack Lea Farm Bury Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 16 Yearly Rate (m3): 5913 Details: Land At Lower Tack Lea Farm, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd May 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1991	3	383890 412220
	Water Abstractions Operator: J R Crompton Ltd Licence Number: 2569002255 Permit Version: Not Supplied Location: Simpson Clough, HEYWOOD Authority: Environment Agency, North West Region Abstraction: Industrial: Paper Making Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 2728 Yearly Rate (m3): 954660 Details: Additional Purpose - Industrial Processing (Miscellaneous) 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	(N)	1993	3	385300 412500
	Water Abstractions Operator: Access Utilities Limited Licence Number: Nw/069/0002/010 Permit Version: 1 Location: Borehole - Northern Manchester Carboniferous Aquifers Authority: Environment Agency, North West Region Abstraction: Chemicals: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th September 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1997	3	382983 410861

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: High	A13SW (NW)	0	4	384968 410504
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NW)	0	4	384968 410504
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NW)	0	4	384968 410504
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 263.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SW (S)	825	5	384816 409659
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SW (S)	828	5	384912 409645
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 689.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Roch Catchment Name: Mersey Primacy: 1	A18NW (N)	836	5	384760 411351
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 539.1 Watercourse Level: Underground Permanent: True Watercourse Name: Millers Brook Catchment Name: Mersey Primacy: 1	A19SE (NE)	977	5	385834 411007

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	980	5	384648 411468
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 179.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Roch Catchment Name: Mersey Primacy: 1	A17NE (N)	981	5	384633 411465

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	BGS Recorded Landfill Sites Site Name: Destructor Works Location: Peel Lane, HEYWOOD, Lancs Authority: British Geological Survey, National Geoscience Information Service Ground Water: No threat to ground water Surface Water: No threat to surface water Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Derived	A18SW (N)	643	-	384866 411174
24	Historical Landfill Sites Licence Holder: Rochdale Metropolitan Borough Council Location: Heywood, Greater Manchester Name: Peel Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15771 First Input Date: 31st December 1900 Last Input Date: 26th April 1975 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9662 BGS Ref: 136 Other Ref: D023	A18SW (N)	588	3	384732 411082
25	Licensed Waste Management Facilities (Locations) Licence Number: 53486 Location: Scrap Yard, Britannia Street, Heywood, Lancashire, OL10 4PL Operator Name: Britannia Marine Stores Ltd Operator Location: Scrap Yard, Britannia Street, Heywood, Lancashire, OL10 4PL Authority: Environment Agency - North West Region, South Area Site Category: Metal Recycling Sites (Mixed) Licence Status: Issued Issued: 11th September 1998 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (N)	344	3	384951 410882
25	Licensed Waste Management Facilities (Locations) Licence Number: 53486 Location: Britannia Street, Off Georges Street, Heywood, Rochdale, Lancashire, OL10 4PL Operator Name: Rochdale Borough Council Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Metal Recycling Sites (Mixed) Licence Status: Surrendered Issued: 11th September 1998 Last Modified: 27th March 2003 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 13th March 2019 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (N)	347	3	384938 410884
26	Licensed Waste Management Facilities (Locations) Licence Number: 53676 Location: Land/premises At, Peel Lane, Heywood, Rochdale, Lancashire, OL10 4UH Operator Name: Viridor Waste (Greater Manchester) Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Household Waste Amenity Sites Licence Status: Surrendered Issued: 1st February 1995 Last Modified: 27th May 2009 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 9th December 2011 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	680	3	384800 411200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Licensed Waste Management Facilities (Locations) Licence Number: 401361 Location: Waste Recycling Centre, Peel Lane, Heywood, Rochdale, Lancashire, OL10 4PS Operator Name: Heywood Recycling Limited Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: HCI Waste Transfer Station Licence Status: Revoked Issued: 29th April 2014 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: 12th November 2015 Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	714	3	384919 411251
27	Licensed Waste Management Facilities (Locations) Licence Number: 404207 Location: Peel Lane, Heywood, Rochdale, Lancashire, OL10 4PS Operator Name: Mayer Skip And Excavation Limited Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: HCI Waste TS + treatment Licence Status: Issued Issued: 15th August 2017 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	738	3	384902 411274
	Local Authority Landfill Coverage Name: Rochdale Metropolitan Borough Council - Has no landfill data to supply		0	2	384968 410504
28	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13NE (E)	285	-	385281 410513
29	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13SE (SE)	335	-	385292 410345
30	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1983	A8NW (S)	464	-	384803 410036
31	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A18SW (N)	506	-	384831 411029
32	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14SW (E)	548	-	385512 410317
33	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A12SE (W)	588	-	384362 410465
34	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A12NW (W)	684	-	384269 410572
35	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A17SE (NW)	844	-	384310 411082
36	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A12NW (W)	912	-	384069 410757

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A12NW (W)	958	-	384024 410769
38	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13SW (SW)	20	-	384929 410485
39	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13NW (N)	42	-	384968 410577
40	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A13SW (W)	43	-	384906 410504
41	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A13SE (SE)	88	-	385071 410457
42	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13SE (S)	103	-	384997 410372
43	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A13SW (S)	109	-	384938 410366
44	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13SE (S)	152	-	385021 410328
45	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13NW (N)	156	-	384962 410694
46	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A13NE (N)	169	-	384977 410705
47	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A13SW (SW)	169	-	384805 410398
48	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A13SE (E)	170	-	385165 410478
49	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13NW (NW)	206	-	384786 410657
50	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A13NW (NW)	228	-	384750 410640
51	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A13SE (SE)	233	-	385178 410356
52	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A13NE (NE)	256	-	385088 410756
53	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13NW (N)	275	-	384963 410812
54	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13SE (E)	298	-	385291 410459
55	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13NW (W)	318	-	384651 410632
56	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A18SW (NW)	378	-	384770 410868

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A18SW (N)	381	-	384892 410914
58	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A18SW (N)	414	-	384965 410951
59	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A14NW (E)	470	-	385427 410693
60	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A18SW (NW)	483	-	384743 410973
61	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12NE (W)	521	-	384449 410664
62	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1931	A8NW (SW)	542	-	384664 410018
63	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12NE (W)	542	-	384420 410631
64	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A19SW (NE)	542	-	385312 410948
65	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A19SW (NE)	583	-	385352 410967
66	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A19SW (NE)	590	-	385424 410911
67	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A9NW (SE)	625	-	385519 410160
68	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A17SE (NW)	636	-	384550 411028
69	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A12NE (NW)	655	-	384360 410814
70	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A14NW (E)	659	-	385642 410636
71	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A17SE (NW)	671	-	384568 411086
72	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A19SW (NE)	674	-	385526 410922
73	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A17SE (NW)	678	-	384606 411120
74	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A12NE (NW)	681	-	384326 410802
75	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A14NE (E)	688	-	385669 410651
76	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A14SE (E)	698	-	385694 410499
77	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A17SE (NW)	699	-	384444 411015

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A12NW (NW)	720	-	384286 410806
79	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A12NW (NW)	723	-	384297 410838
80	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8SW (S)	737	-	384778 409758
81	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A9NW (SE)	743	-	385630 410116
82	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A17SE (NW)	747	-	384403 411042
83	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1931	A17SE (NW)	759	-	384371 411023
84	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A14NE (E)	798	-	385788 410604
85	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A18NE (N)	805	-	385227 411294
86	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A7NW (SW)	829	-	384253 410037
87	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A14NE (E)	833	-	385829 410517
88	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A19SE (NE)	848	-	385771 410849
89	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A19SE (NE)	851	-	385704 410975
90	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A9SW (SE)	851	-	385501 409804
91	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A14SE (E)	852	-	385834 410347
92	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A9SW (SE)	885	-	385429 409714
93	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A7SE (SW)	894	-	384465 409728
94	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A19SE (NE)	903	-	385655 411121
95	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A9SW (SE)	922	-	385629 409822
96	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A14NE (E)	928	-	385924 410524
97	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A14SE (E)	930	-	385917 410373
98	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A19SE (NE)	968	-	385854 410952

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A19SE (NE)	978	-	385839 411001
100	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A19SE (NE)	995	-	385824 411057
101	Registered Waste Transfer Sites Licence Holder: Greater Manchester Waste Ltd Licence Reference: 00888 Site Location: Heywood C.A.Site, Peel Lane, Heywood, Lancashire Operator Location: PO Box 151, Higher Swan Lane, BOLTON, Lancashire, BL3 3WW Authority: Environment Agency - North West Region, South Area Site Category: Civic Amenity Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st February 1995 Preceded By: R/057/87 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste Asbestos Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Decomp./Sol.Waste = No Gmwda Group 5 - Chemical/Toxic Waste Max.Waste Permitted By Licence Prohibited Waste Acid Tars Clinical - Grp A As In Hse '92 Distillation Residues Dyestuffs Waste Foundry Sand Incinerator Residues Industrial Effluent Treatment Sludge Interceptor Pit Wastes Laboratory Chemicals Pharmaceuticals Polymeric Material, Products/Scrap Printing Industry Wastes/Ink Prod'Ts Of Incomplete Polymerisation Sewage Tank Cleaning Sludge Used Filter Mat'ls/Cake/Screenings	A18NW (N)	734	3	384900 411270
101	Registered Waste Transfer Sites Licence Holder: G.M.W.D.A. Licence Reference: R/057/87 Site Location: Peel Lane, Heywood, Lancashire Operator Location: Blackfriars House, Parsonage, MANCHESTER, Greater Manchester, M3 2JA Authority: Environment Agency - North West Region, South Area Site Category: Civic Amenity Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Record supersededSuperseded Dated: 1st October 1987 Preceded By: Not Given Licence: Superseded By: 00888 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Civic Amenity/Refuse Amenity Waste Environment Agency: Special Wastes must give specific authorisation for this waste to be acceptedWaste requires prior approval	A18NW (N)	734	3	384900 411270

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	Registered Waste Treatment or Disposal Sites Licence Holder: Usher Walker Licence Reference: 00759/92 Site Location: Seymour Street, Heywood, Lancashire Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Treatment Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site exempt from licenceExempt Dated: 1st June 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Licenced Wastes Not To Hand	A13SE (SE)	86	3	385020 410400
103	Registered Waste Treatment or Disposal Sites Licence Holder: Britannia Marine Stores Ltd Licence Reference: 80054 Site Location: Britannia Street, George Street, HEYWOOD, Lancashire, OL10 4PL Operator Location: 337/341 Chapel Street, Salford, MANCHESTER, Greater Manchester, M3 5JY Authority: Environment Agency - North West Region, South Area Site Category: Scrapyard Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st September 1998 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Any Non-Haz. Ferrous Metal Scrap Any Non-Haz. Non-Ferrous Metal Scrap Clean Drums Max.Waste Permitted By Licence Scrap Vehicles Prohibited Waste: Spec.Waste (Epa'90:S62/1996 Regs)N.O.S Waste N.O.S.	A18SW (N)	362	3	384950 410900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	Control of Major Accident Hazards Sites (COMAH) Name: Tetrosyl Ltd Location: Argyle Street, Heywood, Lancashire, OL10 3SP Reference: 1022546 Type: Lower Tier Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	645	6	384497 410022

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13SW (NW)	0	1	384968 410504
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (NW)	0	1	384968 410504
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	4	1	385000 410504
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	6	1	384942 410501
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	89	1	385000 410387
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	260	1	385000 410793
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	462	1	384968 411000

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 and Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (W)	496	1	384453 410480
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	504	1	385500 410504
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	653	1	384755 411160
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	654	1	385422 411000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	706	1	385500 410000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium 2.2 - 3.0 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	707	1	385500 411000

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: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17SW (NW)	806	1	384294 411000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A18NW (N)	812	1	384711 411312
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	931	1	384039 410707
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	949	1	384000 410504
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium 2.2 - 3.0 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	963	1	385000 411500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	980	1	384000 410762

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: Sediment Arsenic <15 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17NE (NW)	991	1	384422 411374
105	BGS Recorded Mineral Sites Site Name: Pot Hall Gravel Pit Location: Heywood, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96533 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Devensian Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	322	1	385284 410358
106	BGS Recorded Mineral Sites Site Name: Long Field Brick Field Location: Heywood, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96535 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14NW (E)	327	1	385316 410575
107	BGS Recorded Mineral Sites Site Name: Pot Hall Sand Pit Location: Heywood, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96534 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Devensian Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A14SW (E)	538	1	385505 410327
108	BGS Recorded Mineral Sites Site Name: Field Head Brick Works Location: Broadfield, Heywood, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96581 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	557	1	384711 409975
109	BGS Recorded Mineral Sites Site Name: Mill Bank Brick Works Location: Heywood, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96586 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SW (N)	590	1	384791 411105

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	BGS Recorded Mineral Sites Site Name: Field Head Brick Yard Location: Broadfield, Heywood, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96537 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	681	1	384686 409850
111	BGS Recorded Mineral Sites Site Name: Lomax Sandpit Location: Heywood, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 15317 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Devensian Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	906	1	384248 411105
	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.	A13SW (NW)	0	7	384968 410504
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (NW)	0	-	384968 410504
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	384968 410504
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	4	1	385000 410504
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	384968 410504
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	4	1	385000 410504
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	384968 410504
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	4	1	385000 410504
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	384968 410504
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	4	1	385000 410504
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	384968 410504

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	4	1	385000 410504
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	384967 410504
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	384968 410504
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	4	1	385000 410504
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	29	1	385000 410457
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	384968 410504
	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	A13SW (NW)	0	1	384968 410504

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	Contemporary Trade Directory Entries Name: G P L Fabrication Services Ltd Location: Unit 5, Broadfield Industrial Estate, Seymour Street, Heywood, OL10 3AJ Classification: Machine Shops Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	113	-	385009 410365
112	Contemporary Trade Directory Entries Name: M G B Springs Location: Unit 4, Broadfield Industrial Estate, Seymour Street, Heywood, Lancashire, OL10 3AJ Classification: Sheet Metal Work Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	122	-	385036 410368
112	Contemporary Trade Directory Entries Name: Jrb Cable Installations Ltd Location: Unit 2, Broadfield Industrial Estate, Seymour Street, Heywood, Lancashire, OL10 3AJ Classification: Cable & Wire Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	122	-	385036 410368
112	Contemporary Trade Directory Entries Name: John Bradley Ltd Location: Unit 5, Broadfield Industrial Estate, Seymour Street, Heywood, Lancashire, OL10 3AJ Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	122	-	385036 410368
113	Contemporary Trade Directory Entries Name: Janian Architectural Services Ltd Location: 6, PILSWORTH ROAD, HEYWOOD, OL10 3EZ Classification: Ornamental Metalwork Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	161	-	384938 410698
114	Contemporary Trade Directory Entries Name: J Brooks Roofing Location: 19, Agincourt Street, Heywood, OL10 3EY Classification: Woodburning Stoves Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	162	-	384865 410673
115	Contemporary Trade Directory Entries Name: Koco Cleaning Services Location: 11, Cleves Court, Heywood, Lancashire, OL10 3AR Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	179	-	385085 410331
116	Contemporary Trade Directory Entries Name: J20 Mobile Pressure Cleaning Location: 11, Rivershill Drive, Heywood, Lancashire, OL10 3BJ Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	222	-	384945 410251
117	Contemporary Trade Directory Entries Name: Proclean Heywood Location: 18, High Street, Heywood, OL10 3HJ Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	236	-	384786 410703
118	Contemporary Trade Directory Entries Name: K E Engineering Uk Ltd Location: 5 Broadfield, Seymour St, Heywood, Lancashire, OL10 3AJ Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SE (E)	245	-	385220 410404
119	Contemporary Trade Directory Entries Name: Trench Industrial Services Ltd Location: 16, Brayshaw Close, HEYWOOD, Lancashire, OL10 3EE Classification: Plant & Machinery Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	272	-	385010 410202

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	Contemporary Trade Directory Entries Name: Associated Cleaning Management Ltd Location: 43, Coomassie Street, Heywood, Lancashire, OL10 3AQ Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	278	-	385269 410449
121	Contemporary Trade Directory Entries Name: P W Motors Location: Unit 1-3, Britannia Mill Industrial Estate, George Street, Heywood, OL10 4PW Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	280	-	385005 410813
121	Contemporary Trade Directory Entries Name: A & B Fireplaces Location: Unit 1, Britannia Mill Industrial Estate, George Street, Heywood, Lancashire, OL10 4PW Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	280	-	385005 410813
121	Contemporary Trade Directory Entries Name: Elite Autocare Location: Unit 1, Britannia Mill Industrial Estate, George Street, Heywood, Lancashire, OL10 4PW Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NE (N)	280	-	385005 410813
121	Contemporary Trade Directory Entries Name: Scrap Tyre Solutions Location: Unit 4, Britannia Mill Industrial Estate, George Street, Heywood, Lancashire, OL10 4PW Classification: Recycling Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	288	-	385022 410817
121	Contemporary Trade Directory Entries Name: C & B Tyres Location: Unit 4, Britannia Mill Industrial Estate, George Street, Heywood, Lancashire, OL10 4PW Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (N)	288	-	385022 410817
121	Contemporary Trade Directory Entries Name: Premier Fruits Location: Unit 6/8, Britannia Mill Industrial Estate, George Street, Heywood, Lancashire, OL10 4PW Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	321	-	385015 410852
122	Contemporary Trade Directory Entries Name: Johns Cabinet Shop Location: Rosehill St, Heywood, Lancashire, OL10 3HP Classification: French Polishing Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	306	-	384671 410654
122	Contemporary Trade Directory Entries Name: M G Ryan Location: Victory Mill, Rosehill St, Heywood, Lancashire, OL10 3HP Classification: Builders' Merchants Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	307	-	384672 410658
123	Contemporary Trade Directory Entries Name: H Tonge Location: 45, Bridge Street, Heywood, Lancashire, OL10 1JF Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	310	-	385103 410809
124	Contemporary Trade Directory Entries Name: Hy-Speed Tyre Service Ltd Location: 44-48, Bury Street, Heywood, Lancashire, OL10 4QG Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	325	-	384751 410790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	Contemporary Trade Directory Entries Name: Bury Street Tyres Location: 44-48, Bury Street, Heywood, Lancashire, OL10 4QG Classification: Tyre Repairs & Retreading Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	325	-	384751 410790
125	Contemporary Trade Directory Entries Name: Ibex Marina Ropes Location: Cartridge Ropery, Brunswick Street, Heywood, Lancashire, OL10 1HA Classification: Ropes & Hawsers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	328	-	385284 410660
126	Contemporary Trade Directory Entries Name: Washed & Vac Centre Location: 12, Broadfield Street, Heywood, Lancashire, OL10 3DT Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	332	-	384775 410198
126	Contemporary Trade Directory Entries Name: Kiernan Location: 18, Broadfield Street, Heywood, Lancashire, OL10 3DT Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	332	-	384757 410211
127	Contemporary Trade Directory Entries Name: Britannia Scrap Metals Ltd Location: Scrap Yard, Britannia Street, Heywood, Lancashire, OL10 4PL Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	342	-	384951 410880
128	Contemporary Trade Directory Entries Name: J T Joinery Location: 58, Bridge Street, Heywood, OL10 1JF Classification: Door Manufacturers - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	347	-	385117 410844
128	Contemporary Trade Directory Entries Name: K 2 Electrical Location: 54, Bridge Street, Heywood, Lancashire, OL10 1JF Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	358	-	385120 410855
128	Contemporary Trade Directory Entries Name: A & B Discount Fireplaces Location: 48, Bridge Street, Heywood, Lancashire, OL10 1JF Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	364	-	385140 410851
128	Contemporary Trade Directory Entries Name: M L Location: 6, Shepherd Street, Heywood, Lancashire, OL10 1JW Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	374	-	385134 410865
129	Contemporary Trade Directory Entries Name: Remedial Property Services Location: 50, Windsor Avenue, Heywood, Lancashire, OL10 3DB Classification: Damp & Dry Rot Control Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	349	-	384606 410572
130	Contemporary Trade Directory Entries Name: J & D Cleaning Service Location: 14, Halton Flats, Heywood, Lancashire, OL10 1EY Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	370	-	385231 410790
131	Contemporary Trade Directory Entries Name: Gail Street Motors Location: 9, Mason Street, Heywood, OL10 4QQ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	392	-	384661 410798

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
131	Contemporary Trade Directory Entries Name: Allen Car Sales Location: 9, Mason Street, Heywood, Lancashire, OL10 4QQ Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	392	-	384661 410798
131	Contemporary Trade Directory Entries Name: The Spinerette Location: 84, Bury Street, Heywood, Lancashire, OL10 4QT Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	407	-	384623 410774
132	Contemporary Trade Directory Entries Name: Arlen Hygiene Location: Arlen Way, Heywood, Lancashire, OL10 4PY Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SW (N)	399	-	384830 410917
133	Contemporary Trade Directory Entries Name: T Harrison Printers Engineers Location: George Street, Heywood, Lancashire, OL10 4PW Classification: Printing Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	406	-	385048 410932
134	Contemporary Trade Directory Entries Name: Paul Taylor Cabinet Makers Ltd Location: Spring Mill, Unit 4 Moor Street, Heywood, Lancashire, OL10 3DD Classification: Cabinet Makers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12NE (W)	414	-	384545 410604
135	Contemporary Trade Directory Entries Name: Inter Count Truck & Van Location: Unit 7, Broadfield Distribution Park, Pilsworth Road, Heywood, OL10 2TA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	417	-	385108 410078
136	Contemporary Trade Directory Entries Name: Heywood Asphalt Location: 16, Kent Walk, Heywood, Lancashire, OL10 3DF Classification: Asphalt & Coated Macadam Laying Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	427	-	384522 410516
137	Contemporary Trade Directory Entries Name: Adams Furnishers Location: 53, Market Street, Heywood, Lancashire, OL10 1HZ Classification: Bed & Mattress Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	446	-	385322 410809
137	Contemporary Trade Directory Entries Name: Rothwells Super Travel Location: 60, Market Street, Heywood, OL10 4LY Classification: Bus & Coach Operators & Stations Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	461	-	385314 410837
138	Contemporary Trade Directory Entries Name: Keith Wood Motors Location: Unit 6-8, Britannia Mill Industrial Estate, George Street, Heywood, Lancashire, OL10 4PW Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	450	-	385029 410982
139	Contemporary Trade Directory Entries Name: Tamicare Location: Unit 4 Broadfield Business Park, Heywood, Lancashire, OL10 2TA Classification: Printers Textile Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NW (S)	454	-	384882 410025

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	Contemporary Trade Directory Entries Name: C & J Autos Location: Mission Street Garage, Mission Street, Heywood, OL10 1HY Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	457	-	385375 410760
140	Contemporary Trade Directory Entries Name: Heywood Tyre & Exhaust Location: Mission Street Garage, Mission Street, Heywood, Lancashire, OL10 1HY Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	457	-	385375 410760
140	Contemporary Trade Directory Entries Name: Auto Mobile Services Location: Unit 6 Mission St, Heywood, Lancashire, OL10 1HY Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14NW (NE)	471	-	385392 410760
140	Contemporary Trade Directory Entries Name: Gadget In Budget Ltd Location: 43, Market Street, Heywood, OL10 1HX Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	477	-	385372 410797
141	Contemporary Trade Directory Entries Name: Period Designs Location: Unit 1, Spring Mill, Moor Street, Heywood, Lancashire, OL10 3DD Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	458	-	384516 410670
141	Contemporary Trade Directory Entries Name: Timberform North West Ltd Location: Unit 8 Spring Mill Moor st, Heywood, Lancashire, OL10 3DD Classification: Sawmills & Wood Shavings Status: Active Positional Accuracy: Manually positioned to the address or location	A12NE (W)	459	-	384515 410670
141	Contemporary Trade Directory Entries Name: Mackin Furniture Design Location: Unit 6, Spring Mill, Moor Street, Heywood, Lancashire, OL10 3DD Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	498	-	384475 410672
141	Contemporary Trade Directory Entries Name: D M Horse Boxes Location: Unit 3, Spring Mill, Moor Street, Heywood, Lancashire, OL10 3DD Classification: Horse Boxes & Transporting Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	498	-	384475 410672
141	Contemporary Trade Directory Entries Name: Proline Cabinets Ltd Location: Unit 7, Spring Mill, Moor Street, Heywood, Lancashire, OL10 3DD Classification: Kitchen Furniture Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	498	-	384475 410672
141	Contemporary Trade Directory Entries Name: Trojan Equipment Ltd Location: Unit 5, Spring Mill, Bury Old Road, Heywood, Lancashire, OL10 3HU Classification: Materials Handling Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	498	-	384475 410672
141	Contemporary Trade Directory Entries Name: Handling Equipment Sales & Service Location: Unit 5, Spring Mill, Bury Old Road, Heywood, Lancashire, OL10 3HU Classification: Mechanical Handling Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	498	-	384475 410672
141	Contemporary Trade Directory Entries Name: Britt-Craft Ltd Location: Unit 6, Spring Mill, Moor St, Heywood, Lancashire, OL10 3DD Classification: Furniture - Reproduction Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NE (W)	499	-	384474 410672

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	Contemporary Trade Directory Entries Name: Handling Equipment Direct Location: Unit 5A, Spring Mill, Bury Old Rd, Heywood, Lancashire, OL10 3HU Classification: Materials Handling Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NE (W)	499	-	384474 410672
142	Contemporary Trade Directory Entries Name: T D G Location: Pilsworth Rd, Heywood, Lancashire, OL10 2TA Classification: Distribution Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NW (S)	466	-	384816 410030
143	Contemporary Trade Directory Entries Name: Electrical Appliance Repair Location: 97, Argyle Street, Heywood, Lancashire, OL10 3RS Classification: Electrical goods - servicing & repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	494	-	384541 410209
144	Contemporary Trade Directory Entries Name: Morrisons Petrol Station Location: Dawson Street, Heywood, Lancashire, OL10 4PN Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18SE (NE)	499	-	385272 410924
145	Contemporary Trade Directory Entries Name: Woodford Sheet Metal Ltd Location: 14, Wham Street, Heywood, Lancashire, OL10 4QU Classification: Sheet Metal Work Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	503	-	384529 410807
145	Contemporary Trade Directory Entries Name: Woodford Plastics Location: Wham Street, Heywood, Lancashire, OL10 4QU Classification: Plastics - Machinery & Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	522	-	384528 410838
145	Contemporary Trade Directory Entries Name: Northern Record Supplies Location: Starworks, Wham Street, Heywood, Lancashire, OL10 4QU Classification: Record, Tape & CD Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	522	-	384528 410838
146	Contemporary Trade Directory Entries Name: Johnson Cleaners Uk Ltd Location: 28, Market Street, Heywood, Lancashire, OL10 4LY Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A14NW (NE)	506	-	385379 410834
146	Contemporary Trade Directory Entries Name: Dyson Doctor Location: 18-20, Market Street, Heywood, OL10 4LY Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	536	-	385423 410828
146	Contemporary Trade Directory Entries Name: P & P Law Ltd Location: 18-20, Market Street, Heywood, Lancashire, OL10 4LY Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	536	-	385423 410828
146	Contemporary Trade Directory Entries Name: Carters Appliance Care Location: 4, Market Street, Heywood, Lancashire, OL10 4LY Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	575	-	385473 410825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	Contemporary Trade Directory Entries Name: Chris Hayter Transport Ltd Location: UNIT 1, BROADFIELD DISTRIBUTION PARK, PILSWORTH ROAD, HEYWOOD, OL10 2TA Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	537	-	384874 409942
148	Contemporary Trade Directory Entries Name: Mirlo 2000 Dry Cleaners Location: Dawson Street, Heywood, Lancashire, OL10 4PU Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	547	-	385284 410975
149	Contemporary Trade Directory Entries Name: Internetvoipphone Location: 22, Hind Hill Street, Heywood, Lancashire, OL10 1AQ Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	566	-	385542 410655
150	Contemporary Trade Directory Entries Name: Spares Centre Location: 3, Market Street, Heywood, Lancashire, OL10 1HT Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	566	-	385481 410796
150	Contemporary Trade Directory Entries Name: Spares Centre Location: 3, Market Street, Heywood, Lancashire, OL10 1HT Classification: Electrical Appliance Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	566	-	385481 410796
150	Contemporary Trade Directory Entries Name: Hamilton Logistics Manchester Ltd Location: 1b, Market Street, Heywood, Lancashire, OL10 1HT Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	568	-	385487 410790
150	Contemporary Trade Directory Entries Name: Hamilton Logistics Location: 1b, Market Street, Heywood, Lancashire, OL10 1HT Classification: Freight Forwarders Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	568	-	385487 410790
150	Contemporary Trade Directory Entries Name: Klick Photopoint Location: 28, Market Place, Heywood, Lancashire, OL10 4NL Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	613	-	385521 410821
151	Contemporary Trade Directory Entries Name: Greenbank Location: 6, Lincoln Walk, Heywood, Lancashire, OL10 3JB Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	577	-	384387 410642
152	Contemporary Trade Directory Entries Name: Expert Logistics Location: 908, Pilsworth Road, Heywood, Lancashire, OL10 2TA Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A8NW (S)	585	-	384918 409889
153	Contemporary Trade Directory Entries Name: Honnor Marine Ltd Location: 1, Caxton Street, Heywood, Lancashire, OL10 1AL Classification: Boatbuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	588	-	385576 410604

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	Contemporary Trade Directory Entries Name: Honnor Marine Ltd Location: Caxton Street, Heywood, Lancashire, OL10 1AL Classification: Boatbuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	597	-	385589 410573
154	Contemporary Trade Directory Entries Name: U Value Insulation Ltd Location: Unit 3, Pilsworth Road, Heywood, Lancashire, OL10 2TA Classification: Distribution Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NW (SW)	590	-	384727 409931
155	Contemporary Trade Directory Entries Name: Antalis Ltd Location: 5, Broadfield Distribution Centre, Heywood, OL10 2TU Classification: Packaging Materials Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	590	-	385116 409900
156	Contemporary Trade Directory Entries Name: Mike Goldrick Window Blinds Ltd Location: The Services, Dawson Street, Heywood, Lancashire, OL10 4ND Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	595	-	385445 410895
156	Contemporary Trade Directory Entries Name: L & R Polishing Location: 19, Bamford Road, Heywood, Lancashire, OL10 4TA Classification: Spraying - Paint & Coatings Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	606	-	385456 410899
157	Contemporary Trade Directory Entries Name: J C Location: Higher Broadfield Farm, Pilsworth Road, Heywood, OL10 2TA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	613	-	385033 409862
158	Contemporary Trade Directory Entries Name: Direct Photos Location: 20, Market Place, Heywood, Lancashire, OL10 4NL Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	628	-	385545 410809
158	Contemporary Trade Directory Entries Name: E-Equipment Location: 8-10 Market Pl, Heywood, Lancashire, OL10 4NL Classification: Catering Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	654	-	385575 410808
159	Contemporary Trade Directory Entries Name: P Wilkinson Location: 9, Brechin Way, Heywood, Lancashire, OL10 3RU Classification: French Polishing Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	652	-	384341 410257
160	Contemporary Trade Directory Entries Name: H M Coroner'S Office Location: Phoenix Centre, Church Street, Heywood, Lancashire, OL10 1LR Classification: Medical & Dental Laboratories Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	666	-	385642 410665
160	Contemporary Trade Directory Entries Name: Pennine Care N H S Foundation Trust Within Phoenix Centre Location: Phoenix Centre, Church Street, Heywood, Lancashire, OL10 1LR Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	666	-	385642 410665
161	Contemporary Trade Directory Entries Name: Lindsey Alderson Location: 75, Newhouse Road, Heywood, Lancashire, OL10 2NX Classification: Jewellery Manufacturers & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	668	-	385485 410040

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	Contemporary Trade Directory Entries Name: Metro Sofa Location: Heywood, Lancashire, OL10 2ta Classification: Seating Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NW (S)	670	-	384757 409834
162	Contemporary Trade Directory Entries Name: P & H Contract Services Location: Pilsworth Road, Heywood, Lancashire, OL10 2TA Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	670	-	384757 409834
162	Contemporary Trade Directory Entries Name: U Value Insulations Location: Unit 3 Broadfield Business Park, Pilsworth Road, Heywood, Lancashire, OL10 2TA Classification: Builders' Merchants Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	678	-	384755 409826
163	Contemporary Trade Directory Entries Name: Morrisons Petrol Station Location: Dawson Street, Heywood, Lancashire, OL10 4PN Classification: Petrol Filling Stations Status: Active Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	679	-	385449 411009
163	Contemporary Trade Directory Entries Name: Morrisons Petrol Station Location: Dawson Street, Heywood, Lancashire, OL10 4PN Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	680	-	385451 411009
164	Contemporary Trade Directory Entries Name: J M C Motors Location: 68, BURY NEW ROAD, HEYWOOD, OL10 4RF Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (NW)	700	-	384301 410790
164	Contemporary Trade Directory Entries Name: Summit Service Station Location: 68, BURY NEW ROAD, HEYWOOD, OL10 4RF Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (NW)	700	-	384301 410790
164	Contemporary Trade Directory Entries Name: J M C Motors Location: Showroom, 68, Bury New Road, Heywood, OL10 4RF Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	700	-	384301 410790
165	Contemporary Trade Directory Entries Name: T U S Location: York House, 15-17, York Street, Heywood, Lancashire, OL10 4NN Classification: Meter Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	719	-	385647 410808
166	Contemporary Trade Directory Entries Name: Bobst Manchester Location: Unit 1, Pennine Business Park, Pilsworth Road, HEYWOOD, Lancashire, OL10 2TL Classification: Packaging & Wrapping Equipment & Supplies Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	737	-	384785 409757
166	Contemporary Trade Directory Entries Name: General Vacuum Equipment Ltd Location: Unit 1, Pennine Business Park, Pilsworth Road, Heywood, Lancashire, OL10 2TL Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	737	-	384785 409757

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
167	Contemporary Trade Directory Entries Name: Rms Eletrical Services Location: Unit 8 Block A, Axis Point, Hill Top Road, Heywood, Lancashire, OL10 2RQ Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	738	-	384905 409736
167	Contemporary Trade Directory Entries Name: Controlled Air Solutions Ltd Location: Unit 6 Block A, Axis Point, Hill Top Road, Heywood, Lancashire, OL10 2RQ Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	744	-	384927 409729
167	Contemporary Trade Directory Entries Name: Bindmont Print Services Location: Unit 4 Block A, Axis Point, Hill Top Road, Heywood, Lancashire, OL10 2RQ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	750	-	384950 409722
167	Contemporary Trade Directory Entries Name: Alphatech Print & Data Services Ltd Location: Unit 4 Block A, Axis Point, Hill Top Road, Heywood, OL10 2RQ Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	755	-	384949 409716
168	Contemporary Trade Directory Entries Name: Servicecal Ltd Location: Unit 9 Block A, Axis Point, Hill Top Road, Heywood, OL10 2RQ Classification: Testing, Inspection & Calibration Equipment Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	742	-	384891 409733
169	Contemporary Trade Directory Entries Name: York Street Washing Machines Ltd Location: 19, Nelson Street, Heywood, Lancashire, OL10 1BN Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	751	-	385722 410309
169	Contemporary Trade Directory Entries Name: York Street Washing Machines Location: 19, Nelson Street, Heywood, Lancashire, OL10 1BN Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	751	-	385722 410309
169	Contemporary Trade Directory Entries Name: A & E Electrical (Manchester) Ltd Location: 62-64, King Street, Heywood, Lancashire, OL10 1BW Classification: Electric Motor Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	789	-	385766 410328
170	Contemporary Trade Directory Entries Name: Per Fit Commercial Location: 1, Langton Street, Heywood, Lancashire, OL10 4JU Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	753	-	385527 411038
171	Contemporary Trade Directory Entries Name: Iron 4 Us Location: 17, Highfield Avenue, Heywood, Lancashire, OL10 4SQ Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	759	-	384331 410971
172	Contemporary Trade Directory Entries Name: Watermark Print & Design Location: Pilsworth Indust Est, Pilsworth Rd, Pilsworth, Heywood, Lancashire, OL10 2TA Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7SE (SW)	775	-	384630 409772
173	Contemporary Trade Directory Entries Name: Kmes Location: Cherwell Av, Heywood, Lancashire, OL10 4SE Classification: Plant & Machinery Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	782	-	384476 411156

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
174	Contemporary Trade Directory Entries Name: Heywood Reclaimed Building Materials Location: 102, Newhouse Road, Heywood, Lancashire, OL10 2NU Classification: Reclamation Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	784	-	385572 409963
175	Contemporary Trade Directory Entries Name: Cashwise Removals Location: 5, Lune Grove, Heywood, Lancashire, OL10 4SW Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	806	-	384498 411202
176	Contemporary Trade Directory Entries Name: Tuthill Vacuum & Blower Systems Location: Pennine Business Park, Pilsworth Road, Heywood, Lancashire, OL10 2TL Classification: Pumps - Sales, Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	806	-	384855 409673
176	Contemporary Trade Directory Entries Name: Commercial Catering Spares Ltd Location: Unit 2-4 Block C, Axis Point, Hill Top Road, Heywood, OL10 2RQ Classification: Catering Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	811	-	384880 409665
177	Contemporary Trade Directory Entries Name: North West Cleaning Supplies Location: Queens Park Road, Heywood, Lancashire, OL10 4HA Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A19SE (NE)	813	-	385703 410905
178	Contemporary Trade Directory Entries Name: Summit Service Station Location: 96, Bury New Road, Heywood, Lancashire, OL10 4RF Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	816	-	384184 410805
179	Contemporary Trade Directory Entries Name: G T Recovery Location: Hilda st, Heywood, Lancashire, OL10 4JX Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A19SE (NE)	820	-	385648 411002
179	Contemporary Trade Directory Entries Name: Per-Fit Windows Ltd Location: Unit 1, Langton Street, Heywood, OL10 4LH Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	838	-	385663 411012
179	Contemporary Trade Directory Entries Name: Park Garage Location: Langton Street, Heywood, OL10 4LH Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	866	-	385688 411025
180	Contemporary Trade Directory Entries Name: Dalton Properties Location: The Old Mission, Hardfield Street, Heywood, Lancashire, OL10 1DG Classification: Damp & Dry Rot Control Status: Active Positional Accuracy: Manually positioned within the geographical locality	A14NE (E)	820	-	385816 410532
181	Contemporary Trade Directory Entries Name: Uk Touchscreens Location: 181, Higher Lomax Lane, Heywood, OL10 4SL Classification: Cash Registers & Check-Out Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	823	-	384555 411257
182	Contemporary Trade Directory Entries Name: Dtp Supplies Location: Pennine Business Park, Pilsworth Road, Heywood, OL10 2TL Classification: Fasteners & Fixing Devices Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	824	-	384659 409706

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
182	Contemporary Trade Directory Entries Name: The Zone Gymnastic Leotards Location: Pennine Business Park, Pilsworth Road, Heywood, Lancashire, OL10 2TL Classification: Leisure & Sportswear Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	824	-	384659 409706
183	Contemporary Trade Directory Entries Name: Formula One Autocentres Heywood Location: York Street, Heywood, Lancashire, OL10 4NS Classification: Garage Services Status: Active Positional Accuracy: Manually positioned to the address or location	A14NE (E)	833	-	385790 410758
183	Contemporary Trade Directory Entries Name: Equipe Tyre & Autocare Location: York Street, Heywood, OL10 4NS Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	839	-	385795 410762
183	Contemporary Trade Directory Entries Name: Euronics Location: 61 York Street, Heywood, Lancashire, OL10 4NR Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	851	-	385795 410797
184	Contemporary Trade Directory Entries Name: Barbie Hope Location: 3, Oak Street, Heywood, Lancashire, OL10 4TT Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	865	-	384940 411403
185	Contemporary Trade Directory Entries Name: Cinderella Location: 117, Bury New Road, Heywood, Lancashire, OL10 3JN Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	865	-	384124 410780
185	Contemporary Trade Directory Entries Name: Leisure Wash Location: 5-7, Heady Hill Road, Heywood, Lancashire, OL10 3JH Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	896	-	384087 410760
186	Contemporary Trade Directory Entries Name: Quarry Manufacturing Location: Willow Street Mill, Willow Street, Heywood, OL10 4LJ Classification: Textile Manufacturing Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	869	-	385753 410932
187	Contemporary Trade Directory Entries Name: F.Kempster & Sons Ltd Location: Hardfield Garage, 34, Manchester Street, Heywood, Lancashire, OL10 1DL Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	876	-	385865 410617
187	Contemporary Trade Directory Entries Name: Brownroyd Motors Location: Hardfield Garage, 34, Manchester Street, Heywood, OL10 1DL Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A14NE (E)	876	-	385865 410615
187	Contemporary Trade Directory Entries Name: Kempsters Of Heywood Location: Hardfield Garage, 34, Manchester Street, Heywood, Lancashire, OL10 1DL Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	876	-	385865 410617
187	Contemporary Trade Directory Entries Name: Crawford Domestic Appliances Ltd Location: 36-38, MANCHESTER STREET, HEYWOOD, OL10 1DL Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Active Positional Accuracy: Automatically positioned to the address	A14NE (E)	904	-	385896 410588

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
188	Contemporary Trade Directory Entries Name: East Lancashire Services Ltd Location: 81, York Street, Heywood, OL10 4NR Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A14NE (E)	900	-	385848 410794
188	Contemporary Trade Directory Entries Name: East Lancs Cleaning Services Location: 81, York Street, Heywood, OL10 4NR Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	900	-	385848 410794
188	Contemporary Trade Directory Entries Name: East Lancashire Services Ltd Location: 81, York Street, Heywood, Lancashire, OL10 4NR Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	900	-	385848 410794
189	Contemporary Trade Directory Entries Name: Bibby Distribution Ltd Location: P10, Parklands, Heywood Distribution Park, Heywood, Lancashire, OL10 2TT Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	905	-	384344 409810
190	Contemporary Trade Directory Entries Name: Key Stone Distribution Uk Location: Hareshill Road, Heywood, Lancashire, OL10 2TN Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	910	-	384749 409588
191	Contemporary Trade Directory Entries Name: Dash Xpress Location: 6, Chelmer Grove, Heywood, Lancashire, OL10 4RX Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NW (NW)	922	-	384294 411181
192	Contemporary Trade Directory Entries Name: Ken Brogden Ltd Location: 52-52A, MANCHESTER STREET, HEYWOOD, OL10 1DL Classification: Metal Products - Fabricated Status: Active Positional Accuracy: Automatically positioned to the address	A14NE (E)	942	-	385935 410575
192	Contemporary Trade Directory Entries Name: Lord'S Motors Location: Russell Street, Heywood, Lancashire, OL10 1NY Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14NE (E)	987	-	385981 410570
193	Contemporary Trade Directory Entries Name: Robert Scott Location: Millersbrook Mill, Miller Street, Heywood, OL10 4HJ Classification: Cleaning Materials & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	942	-	385855 410891
193	Contemporary Trade Directory Entries Name: L M Scaffolding M C R Ltd Location: Unit 2 Miller Street, Heywood, Lancashire, OL10 4HX Classification: Scaffolding & Work Platforms Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A19SE (E)	973	-	385894 410879
194	Contemporary Trade Directory Entries Name: Aluminium Windows Location: Unit P14, Broadlands, Heywood Distribution Park, Heywood, Lancashire, OL10 2TT Classification: Window Frame Manufacturers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	945	-	384441 409683

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
195	Contemporary Trade Directory Entries Name: Industrial Latex Compounds Ltd Location: Burns Mill, Manchester Street, Heywood, Lancashire, OL10 1DN Classification: Foam Products - Rubber & Plastics Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	958	-	385954 410486
195	Contemporary Trade Directory Entries Name: Industrial Latex Compounds Location: Burns Mill, Manchester Street, Heywood, Lancashire, OL10 1DN Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	958	-	385954 410486
196	Contemporary Trade Directory Entries Name: Clean Right Ultra Dry Location: 2, Salisbury Avenue, Heywood, Lancashire, OL10 2NZ Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	959	-	385590 409736
196	Contemporary Trade Directory Entries Name: Clean Right Location: 2, Salisbury Avenue, Heywood, Lancashire, OL10 2NZ Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	959	-	385590 409736
197	Contemporary Trade Directory Entries Name: Good As New Cleaning Ltd Location: Independence House, Adelaide Street, Heywood, Lancashire, OL10 4HF Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	974	-	385917 410822
197	Contemporary Trade Directory Entries Name: A To Z Solutions Centre Ltd Location: Independence House, Adelaide Street, Heywood, Lancashire, OL10 4HF Classification: Energy Efficient Products and Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	974	-	385917 410822
198	Contemporary Trade Directory Entries Name: Keystone Distribution Location: Hareshill Rd, Heywood, Lancashire, OL10 2TN Classification: Distribution Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	980	-	384667 409538
199	Contemporary Trade Directory Entries Name: Shocka Sports Location: 88-92, York Street, Heywood, Lancashire, OL10 4NS Classification: Leisure & Sportswear Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	986	-	385952 410747
200	Contemporary Trade Directory Entries Name: Keep It Clean Cleaning Services Location: 13, Lorne Way, Heywood, OL10 3NJ Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	988	-	383966 410399
201	Contemporary Trade Directory Entries Name: Scaffold Hire In Salford Location: Unit 2 Miller Street, Heywood, Lancashire, OL10 4HX Classification: Scaffolding & Work Platforms Status: Active Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	992	-	385871 410972
201	Contemporary Trade Directory Entries Name: Lomax Reclamations Location: Unit 2, Miller Street, Heywood, Lancashire, OL10 4HJ Classification: Builders' Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	993	-	385871 410972
202	Contemporary Trade Directory Entries Name: Budget Blinds Location: 119, Higher Lomax Lane, Heywood, Lancashire, OL10 4RU Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	996	-	384348 411328

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
203	Contemporary Trade Directory Entries Name: B Conway Mechanical Handling Ltd Location: 21, Severn Road, Heywood, Lancashire, OL10 4RY Classification: Mechanical Handling Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NW (NW)	997	-	384214 411206
204	Fuel Station Entries Name: Morrisons Heywood Location: Bamford Road , , Heywood, Greater Manchester, OL10 4PU Brand: MORRISONS Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	677	-	385448 411008
205	Fuel Station Entries Name: Kempster Ford Location: Hardfield Street , , Heywood, Greater Manchester, OL10 1DG Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Located by supplier to within 100m	A14NE (E)	779	-	385769 410602
206	Points of Interest - Commercial Services Name: Failsworth Haulage Ltd Location: 5 Pilsworth Road, Heywood, OL10 3EZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13NE (N)	85	8	384988 410615
207	Points of Interest - Commercial Services Name: Airflow UK Ltd Location: Unit 5 Broadfield Industrial Estate, Seymour Street, Heywood, OL10 3AJ Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SE (S)	113	8	385009 410365
207	Points of Interest - Commercial Services Name: M G B Springs Location: Unit 4 Broadfield Industrial Estate, Seymour Street, Heywood, OL10 3AJ Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SE (SE)	122	8	385036 410368
207	Points of Interest - Commercial Services Name: M G B Springs Location: Unit 4 Broadfield Industrial Estate, Seymour Street, Heywood, OL10 3AJ Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SE (SE)	122	8	385036 410368
208	Points of Interest - Commercial Services Name: P W Motors Location: Unit 1-3 Britannia Mill Industrial Estate, George Street, Heywood, OL10 4PW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	280	8	385005 410813
208	Points of Interest - Commercial Services Name: C & B Autos Location: Unit 1 Britannia Mill Industrial Estate, George Street, Heywood, OL10 4PW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	280	8	385005 410813
208	Points of Interest - Commercial Services Name: C & B Autos Location: Unit 1 Britannia Mill Industrial Estate, George Street, Heywood, OL10 4PW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	280	8	385005 410813
208	Points of Interest - Commercial Services Name: Elite Autocare Heywood Location: Unit 1-3 Britannia Mill Industrial Estate, George Street, Heywood, OL10 4PW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	280	8	385005 410813

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
208	Points of Interest - Commercial Services Name: Hogdoc Location: Unit 3 Britannia Mill Industrial Estate, George Street, Heywood, OL10 4PW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	285	8	385016 410816
209	Points of Interest - Commercial Services Name: Manchester Mobile Valeting Ltd Location: 5 Barker Street, Heywood, OL10 3DU Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13SW (SW)	302	8	384786 410226
210	Points of Interest - Commercial Services Name: Coolfreight Ltd Location: 11 Brayshaw Close, Heywood, OL10 3EE Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SE (S)	305	8	385036 410174
211	Points of Interest - Commercial Services Name: Keith Wood Motors Location: Units 6 to 8 Britannia Mill Industrial Estate, George Street, Heywood, OL10 4PW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (N)	320	8	385014 410852
211	Points of Interest - Commercial Services Name: Scrap Yard Location: Not Supplied Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	352	8	384947 410890
212	Points of Interest - Commercial Services Name: Aj's Professional Valeters Location: 44-48 Bury Street, Heywood, OL10 4QG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13NW (NW)	325	8	384751 410790
212	Points of Interest - Commercial Services Name: Bury Street Tyres Location: 44-48 Bury Street, Heywood, OL10 4QG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (NW)	325	8	384751 410790
212	Points of Interest - Commercial Services Name: Aj's Professional Valeters Location: 44-48 Bury Street, Heywood, OL10 4QG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13NW (NW)	325	8	384751 410790
213	Points of Interest - Commercial Services Name: M L Motors Location: 6 Shepherd Street, Heywood, OL10 1JW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (NE)	374	8	385134 410865
213	Points of Interest - Commercial Services Name: M L Motors Location: Shepherd Street, Heywood, OL10 1JW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (NE)	386	8	385151 410870
214	Points of Interest - Commercial Services Name: Albert Jagger Ltd Location: Foxhill Works, Fox Street, Heywood, OL10 1EA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (NE)	378	8	385322 410696
214	Points of Interest - Commercial Services Name: Albert Jagger Ltd Location: Foxhill Works, Fox Street, Heywood, OL10 1EA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (NE)	378	8	385322 410696

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
214	Points of Interest - Commercial Services Name: C & J Autos Location: Mission Street Garage Cj Autos, Mission Street, Heywood, OL10 1HY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (NE)	457	8	385375 410760
214	Points of Interest - Commercial Services Name: C & J Autos Location: Mission Street Garage, Mission Street, Heywood, OL10 1HY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (NE)	457	8	385375 410760
214	Points of Interest - Commercial Services Name: C & J Autos Location: Mission Street Garage, Mission Street, Heywood, OL10 1HY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (NE)	457	8	385375 410760
214	Points of Interest - Commercial Services Name: A M S Location: 6-8 Mission Street, Heywood, OL10 1HY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (NE)	462	8	385364 410784
215	Points of Interest - Commercial Services Name: Autosshine Professional Valeting Services Location: 9 Mason Street, Heywood, OL10 4QQ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13NW (NW)	392	8	384661 410798
215	Points of Interest - Commercial Services Name: Gail Street Motors Location: 9 Mason Street, Heywood, OL10 4QQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (NW)	392	8	384661 410798
215	Points of Interest - Commercial Services Name: Autosshine Professional Valeting Services Location: 9 Mason Street, Heywood, OL10 4QQ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13NW (NW)	392	8	384661 410798
215	Points of Interest - Commercial Services Name: Gail Street Motors Location: Mason Street, Heywood, OL10 4QQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (NW)	392	8	384661 410798
216	Points of Interest - Commercial Services Name: Inter Count Truck & Van Location: Unit 7 Broadfield Distribution Park, Pilsworth Road, Heywood, OL10 2TA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (S)	417	8	385108 410078
216	Points of Interest - Commercial Services Name: Expert Logistics Location: Broadfield Centre, Pilsworth Road, Heywood, OL10 2TA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (S)	422	8	385103 410071
217	Points of Interest - Commercial Services Name: Excel Shipping Location: 64-66 Market Street, Heywood, OL10 4LY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13NE (NE)	455	8	385302 410840
218	Points of Interest - Commercial Services Name: Woodford Sheet Metal Ltd Location: 14 Wham Street, Heywood, OL10 4QU Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A12NE (NW)	503	8	384529 410807

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
218	Points of Interest - Commercial Services Name: Woodford Sheet Metal Ltd Location: 14 Wham Street, Heywood, OL10 4QU Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A12NE (NW)	503	8	384529 410807
219	Points of Interest - Commercial Services Name: Chris Hayter Transport Ltd Location: Unit 1 Broadfield Distribution Park, Pilsworth Road, Heywood, OL10 2TA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NW (S)	537	8	384874 409942
219	Points of Interest - Commercial Services Name: P & H Contract Services Location: 1 Broadfield Distribution Centre, Heywood, OL10 2TU Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NW (S)	537	8	384885 409940
219	Points of Interest - Commercial Services Name: U Value Insulation Ltd Location: Unit 3 Broadfield Business Park, Pilsworth Road, Heywood, OL10 2TA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NW (S)	551	8	384960 409920
219	Points of Interest - Commercial Services Name: U Value Insulation Ltd Location: Unit 3, Pilsworth Road, Heywood, OL10 2TA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NW (S)	553	8	384962 409918
220	Points of Interest - Commercial Services Name: Hamilton Logistics Location: 1 Market Street, Heywood, OL10 1HT Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14NW (NE)	568	8	385487 410790
220	Points of Interest - Commercial Services Name: Hamilton Logistics Manchester Ltd Location: 1b Market Street, Heywood, OL10 1HT Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14NW (NE)	572	8	385486 410799
221	Points of Interest - Commercial Services Name: J C Location: Higher Broadfield Farm, Pilsworth Road, Heywood, OL10 2TA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (S)	590	8	384985 409882
222	Points of Interest - Commercial Services Name: Bridge Auto Centre Location: 19 Bamford Road, Heywood, OL10 4TA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SW (NE)	606	8	385456 410899
223	Points of Interest - Commercial Services Name: Lamas Thermaclad Ltd Location: 8 Frank Fold, Heywood, OL10 4FF Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A17SE (NW)	650	8	384446 410943
224	Points of Interest - Commercial Services Name: P & H Contract Services Location: Pilsworth Road, Heywood, OL10 2TA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NW (S)	670	8	384757 409834
225	Points of Interest - Commercial Services Name: Morrisons Heywood Location: Bamford Road, Heywood, OL10 4NR Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A19SW (NE)	677	8	385448 411008

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
225	Points of Interest - Commercial Services Name: Car Wash Location: Bamford Road, Heywood, Lancashire, OL10 4NR Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A19SW (NE)	677	8	385448 411008
225	Points of Interest - Commercial Services Name: Morrisons Car Wash Location: Dawson Street, Heywood, OL10 4PN Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A19SW (NE)	679	8	385449 411009
226	Points of Interest - Commercial Services Name: Summit Service Station Location: 68 Bury New Road, Heywood, OL10 4RF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (NW)	700	8	384301 410790
226	Points of Interest - Commercial Services Name: Summit Service Station Location: Summit Service Station, Bury New Road, Heywood, OL10 4RF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	723	8	384263 410747
227	Points of Interest - Commercial Services Name: B Gaughran Location: 191 Higher Lomax Lane, Heywood, OL10 4SN Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17NE (NW)	765	8	384567 411198
228	Points of Interest - Commercial Services Name: Summit Service Station Location: 96 Bury New Road, Heywood, OL10 4RF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	816	8	384184 410805
229	Points of Interest - Commercial Services Name: Formula One Autocentres Location: York Street, Heywood, OL10 4NS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	826	8	385780 410764
229	Points of Interest - Commercial Services Name: Equipe Tyre & Autocare Location: York Street, Heywood, OL10 4NR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	839	8	385795 410762
230	Points of Interest - Commercial Services Name: Park Garage Location: Langton Street, Heywood, OL10 4LH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	866	8	385688 411025
230	Points of Interest - Commercial Services Name: Park Garage Location: Langton Street, Heywood, OL10 4LH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	866	8	385688 411025
231	Points of Interest - Commercial Services Name: Kempsters of Heywood Location: Hardfield Garage 34, Manchester Street, Heywood, OL10 1DL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	876	8	385865 410617
231	Points of Interest - Commercial Services Name: Kempsters of Heywood Location: Hardfield Garage 34, Manchester Street, Heywood, OL10 1DL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	876	8	385865 410617

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
232	Points of Interest - Commercial Services Name: Bibby Distribution Ltd Location: P10 Parklands, Heywood Distribution Park, Heywood, OL10 2TT Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7SE (SW)	905	8	384344 409810
233	Points of Interest - Commercial Services Name: Bibby Distribution Ltd Location: P9 Parklands, Heywood Distribution Park, Heywood, OL10 2TT Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7SE (SW)	909	8	384422 409739
234	Points of Interest - Commercial Services Name: Martin Brower UK Location: Golden West Foods Ltd, Hareshill Road, Heywood, OL10 2TN Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8SW (S)	910	8	384749 409587
235	Points of Interest - Commercial Services Name: Dash Xpress Location: 6 Chelmer Grove, Heywood, OL10 4RX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17NW (NW)	923	8	384293 411181
236	Points of Interest - Commercial Services Name: Lord's Motors Location: Russell Street, Heywood, OL10 1NY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	987	8	385981 410570
236	Points of Interest - Commercial Services Name: Lord's Motors Location: Russell Street, Heywood, OL10 1NY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	987	8	385981 410570
237	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A13SE (S)	64	8	384986 410409
237	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A13SE (S)	67	8	384988 410407
237	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	78	8	385022 410410
237	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A13SE (S)	146	8	384992 410327
237	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (S)	150	8	385007 410326
238	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SE (SE)	67	8	385020 410423

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
238	Points of Interest - Manufacturing and Production Name: Tanks Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	70	8	385019 410418
238	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SE (SE)	73	8	385025 410419
239	Points of Interest - Manufacturing and Production Name: Britannia Mill Industrial Estate Location: OL10 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	295	8	385008 410828
239	Points of Interest - Manufacturing and Production Name: Britannia Mill Industrial Estate Location: OL10 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	300	8	385015 410831
240	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	323	8	385281 410657
240	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A13NE (NE)	331	8	385287 410661
240	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A14NW (NE)	383	8	385323 410704
240	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NW (NE)	386	8	385328 410702
241	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	343	8	384647 410691
241	Points of Interest - Manufacturing and Production Name: Victory Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	348	8	384629 410661
242	Points of Interest - Manufacturing and Production Name: A & B Fireplaces Location: 48 Bridge Street, Heywood, OL10 1JF Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A18SE (NE)	364	8	385140 410851
243	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8NE (SE)	459	8	385252 410107

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
243	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8NE (SE)	465	8	385256 410102
244	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	475	8	385037 410001
245	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NW (NE)	480	8	385425 410719
246	Points of Interest - Manufacturing and Production Name: Essential Marble & Granite Ltd Location: Bury Old Road, Heywood, OL10 3HU Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A12NE (W)	499	8	384474 410672
247	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	553	8	384575 410075
247	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	633	8	384494 410043
247	Points of Interest - Manufacturing and Production Name: Tanks Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	633	8	384494 410043
247	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	650	8	384497 410016
248	Points of Interest - Manufacturing and Production Name: The Old Police Station Location: The Old Police Station Business Centre, Hind Hill Street, Heywood, OL10 1AQ Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A14NW (E)	566	8	385542 410655
249	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	571	8	384628 410008
250	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	579	8	385028 409895
251	Points of Interest - Manufacturing and Production Name: Factory Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	699	8	385042 409776

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
252	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	707	8	385345 411127
253	Points of Interest - Manufacturing and Production Name: Pennine Business Park Location: OL10 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	779	8	384745 409724
254	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	835	8	385676 410989
254	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	835	8	385676 410989
254	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	850	8	385675 411015
255	Points of Interest - Manufacturing and Production Name: Tanks Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	877	8	384661 409648
255	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SW (S)	882	8	384663 409642
255	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SW (S)	887	8	384662 409638
255	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SW (S)	890	8	384662 409634
255	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SW (S)	894	8	384661 409630
255	Points of Interest - Manufacturing and Production Name: Tank Location: OL10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8SW (S)	898	8	384660 409627
256	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A14NE (E)	903	8	385899 410540

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
256	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	908	8	385904 410541
256	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	928	8	385922 410563
256	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	928	8	385922 410563
256	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	942	8	385937 410546
256	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	942	8	385937 410546
256	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	944	8	385940 410508
256	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	988	8	385982 410573
257	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	916	8	385852 410831
257	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	916	8	385852 410831
257	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (E)	994	8	385930 410846
258	Points of Interest - Manufacturing and Production Name: Harehill Business Park Location: OL10 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	950	8	384761 409543
259	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	974	8	385954 410683

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
259	Points of Interest - Manufacturing and Production Name: Works Location: OL10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	974	8	385954 410683
260	Points of Interest - Public Infrastructure Name: Rothwells Super Travel Location: 60 Market Street, Heywood, OL10 4LY Category: Public Transport, Stations and Infrastructure Class Code: Bus and Coach Stations, Depots and Companies Positional Accuracy: Positioned to address or location	A14NW (NE)	461	8	385314 410837
261	Points of Interest - Public Infrastructure Name: Morrisons Heywood Location: Bamford Road, Heywood, OL10 4NR Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	677	8	385448 411008
261	Points of Interest - Public Infrastructure Name: Morrisons Petrol Station Location: Dawson Street, Heywood, OL10 4PN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	679	8	385449 411009
261	Points of Interest - Public Infrastructure Name: Morrisons Petrol Station Location: Dawson Street, Heywood, OL10 4PN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	680	8	385451 411009
262	Points of Interest - Public Infrastructure Name: Greater Manchester Waste Ltd Location: Peel Lane, Heywood, OL10 4TP Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A18NW (N)	722	8	384930 411260
263	Points of Interest - Public Infrastructure Name: Heywood Police Station Location: Adelaide Street, Heywood, Greater Manchester, OL10 4HA Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A14NE (NE)	800	8	385724 410836
264	Points of Interest - Public Infrastructure Name: Top of Heap Location: OL10 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	808	8	384149 410385
265	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	115	8	385106 410468
265	Points of Interest - Recreational and Environmental Name: Playground Location: Boleyn Court, OL10 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	115	8	385106 410468
266	Points of Interest - Recreational and Environmental Name: Playground Location: West Church Street, OL10 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	256	8	385201 410658
266	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	262	8	385208 410658

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
267	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	368	8	384600 410377
267	Points of Interest - Recreational and Environmental Name: Playground Location: Argyle Street, OL10 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	368	8	384600 410377
268	Points of Interest - Recreational and Environmental Name: Playground Location: Springfield Street, OL10 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A17SE (NW)	610	8	384463 410899
269	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NE (NE)	818	8	385310 411274
269	Points of Interest - Recreational and Environmental Name: Playground Location: OL10 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	821	8	385318 411274
270	Points of Interest - Recreational and Environmental Name: Play Area Location: OL10 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	922	8	385007 411458
271	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	974	8	383979 410596
271	Points of Interest - Recreational and Environmental Name: Playground Location: Dilworth Close, OL10 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	974	8	383979 410596

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
272	Areas of Adopted Green Belt Authority: Rochdale Metropolitan Borough Council Plan Name: Rochdale Unitary Development Plan Status: Adopted Plan Date: 30th June 2006	A18SW (N)	501	10	384833 411024

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Manchester City Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department	June 2020 October 2017 October 2017 October 2017 October 2017 September 2017	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update Annually Annual Rolling Update
Discharge Consents Environment Agency - North West Region	July 2023	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	
Integrated Pollution Controls Environment Agency - North West Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - North West Region	January 2023	Quarterly
Local Authority Integrated Pollution Prevention And Control Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department Manchester City Council - Environmental Health Department	February 2015 July 2014 March 2015 May 2016 September 2014	Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department Manchester City Council - Environmental Health Department	February 2015 July 2014 March 2015 May 2016 September 2014	Not Applicable Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department Manchester City Council - Environmental Health Department	February 2015 July 2014 March 2015 May 2016 September 2014	Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 2023	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	
Registered Radioactive Substances Environment Agency - North West Region Environment Agency - Head Office	June 2016 May 2023	As notified Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	

Agency & Hydrological	Version	Update Cycle
Substantiated Pollution Incident Register Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	July 2023 July 2023 July 2023	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	October 2023	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2023	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2023	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2023	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	October 2023	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	July 2023	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	July 2023 July 2023 July 2023	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	January 2023 January 2023 January 2023	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Bury Metropolitan Borough Council Lancashire County Council - Waste Management Group Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	February 2003 February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Bury Metropolitan Borough Council Lancashire County Council - Waste Management Group Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	October 2018 October 2018 October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2006 March 2006 March 2006	Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	April 2018 April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	June 2015 June 2015 June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Lancashire County Council Bury Metropolitan Borough Council Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	April 2023 February 2016 February 2016 February 2016 May 2023 May 2023	Variable Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Bury Metropolitan Borough Council Lancashire County Council Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	February 2016 February 2016 February 2016 February 2016 February 2016 February 2016	Variable Variable Variable Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	June 2023	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	September 2023	Quarterly
Points of Interest - Education and Health PointX	September 2023	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2023	Quarterly
Points of Interest - Public Infrastructure PointX	September 2023	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2023	Quarterly
Underground Electrical Cables National Grid	February 2023	Bi-Annually

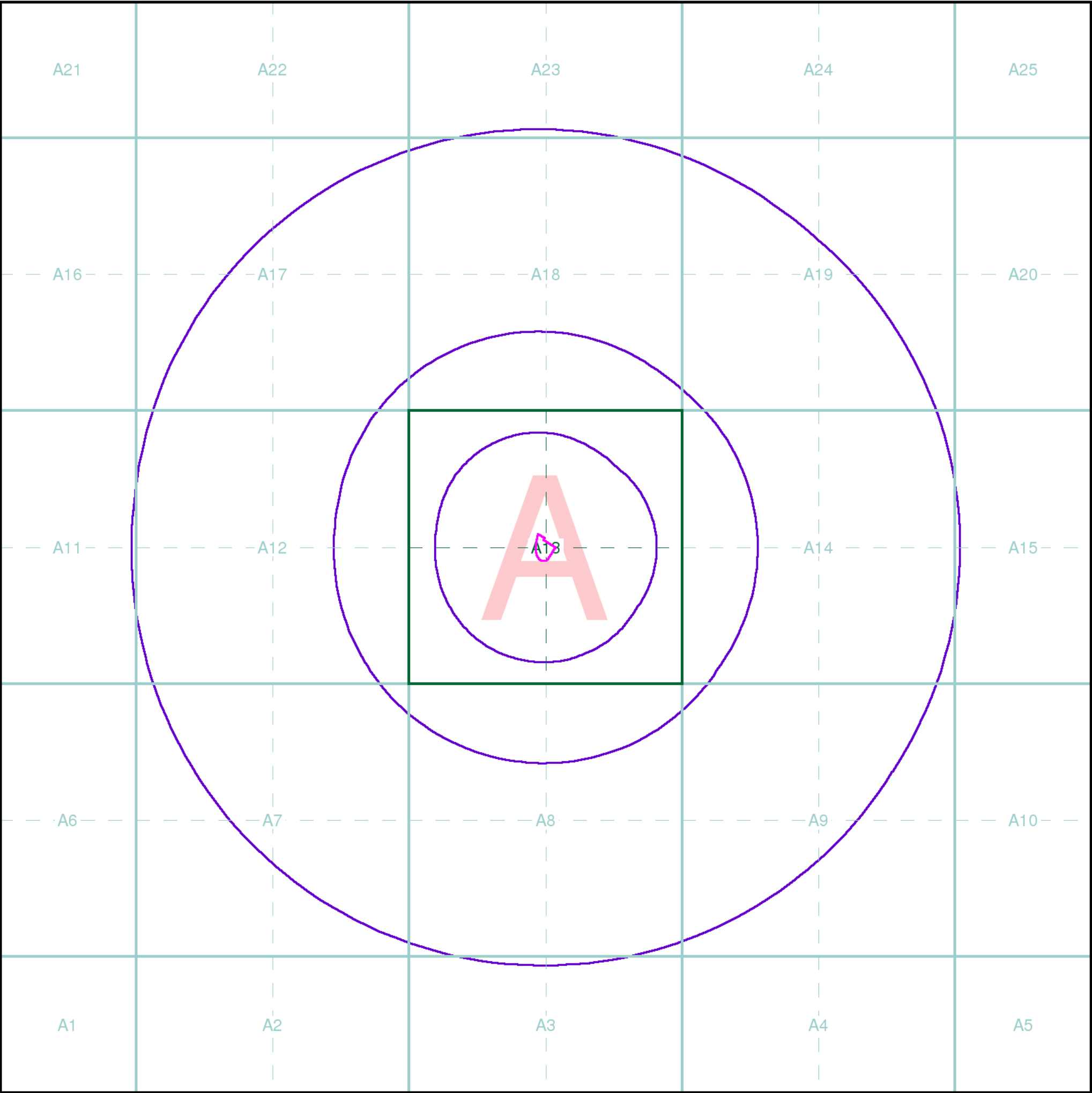
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	April 2023	Bi-Annually
Areas of Adopted Green Belt Bury Metropolitan Borough Council Manchester City Council Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	August 2023 August 2023 August 2023 August 2023 August 2023	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Bury Metropolitan Borough Council Manchester City Council Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	August 2023 August 2023 August 2023 August 2023 August 2023	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	November 2023	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	August 2023	Bi-Annually
Marine Nature Reserves Natural England	October 2023	Bi-Annually
National Nature Reserves Natural England	August 2023	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 March 2023	Bi-Annually
Ramsar Sites Natural England	October 2023	Bi-Annually
Sites of Special Scientific Interest Natural England	November 2023	Bi-Annually
Special Areas of Conservation Natural England	October 2023	Bi-Annually
Special Protection Areas Natural England	October 2023	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	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Rochdale Metropolitan Borough Council - Environmental Health Department P O Box 32, Telegraph House, Ballie Street, Rochdale, Greater Manchester, OL16 1JH	Telephone: 01706 864139 Fax: 01706 864185 Website: www.rochdale.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
7	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	Rochdale Metropolitan Borough Council PO Box 15, Town Hall, Rochdale, Greater Manchester, OL16 1AB	Telephone: 01706 647474 Fax: 01706 59475 Website: www.rochdale.gov.uk
11	Bury Metropolitan Borough Council Craig House, Bank Street, Bury, Lancashire, BL9 0DN	Telephone: 0161 253 5000 Fax: 0161 705 5290 Website: www.bury.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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:



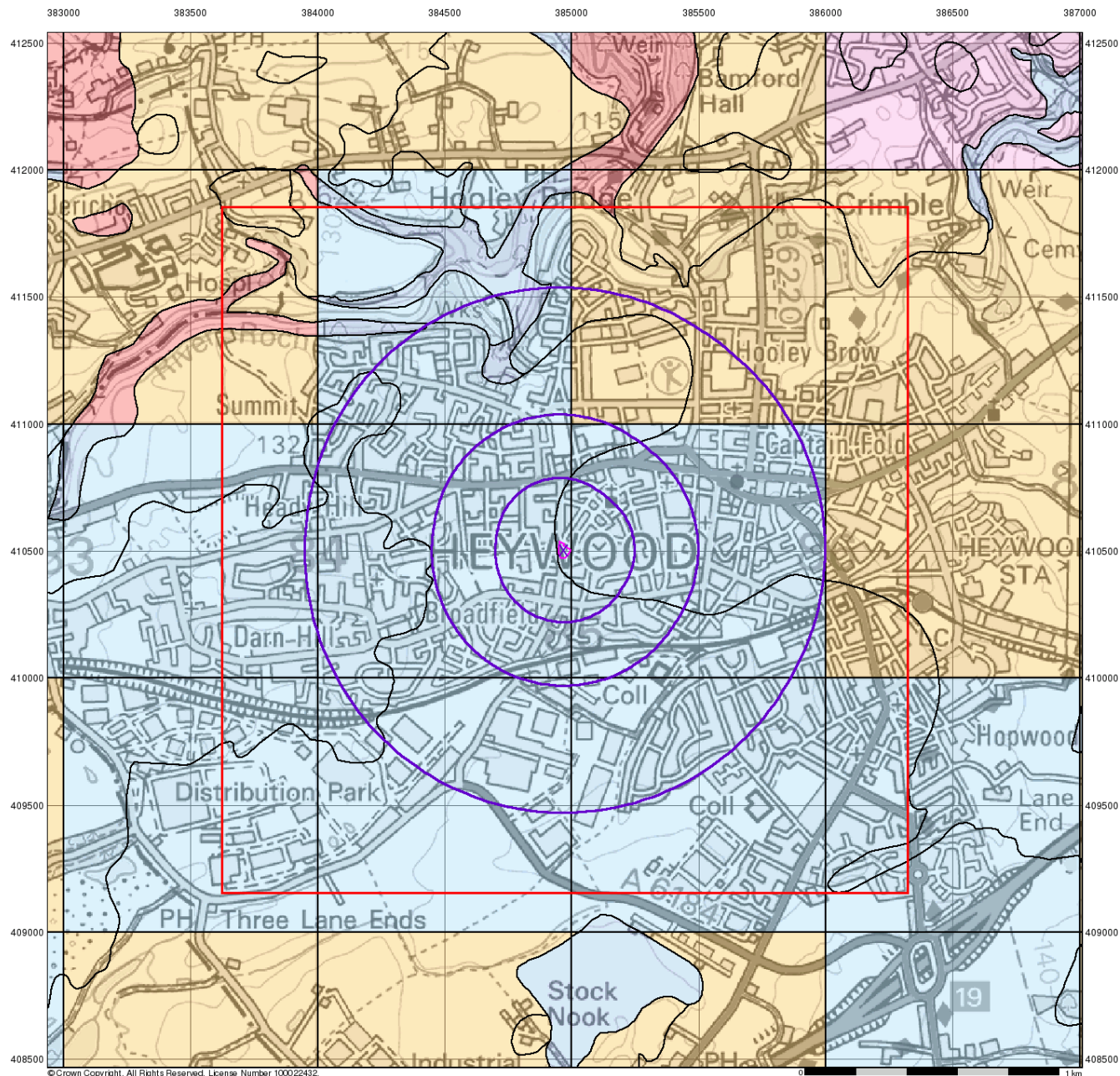
Envirocheck reports are compiled from 136 different sources of data.

Client Details
Ms S Ltd, Soiltechnics Limited, Cedar Barn, White Lodge, Walgrave, Northampton, NN6 9PY

Order Details
Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details
23-511 Pilsworth Road, HEYWOOD

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>



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Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

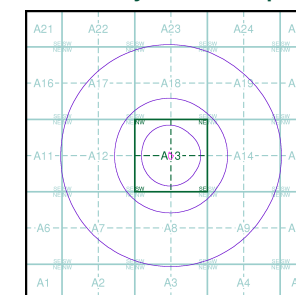
Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

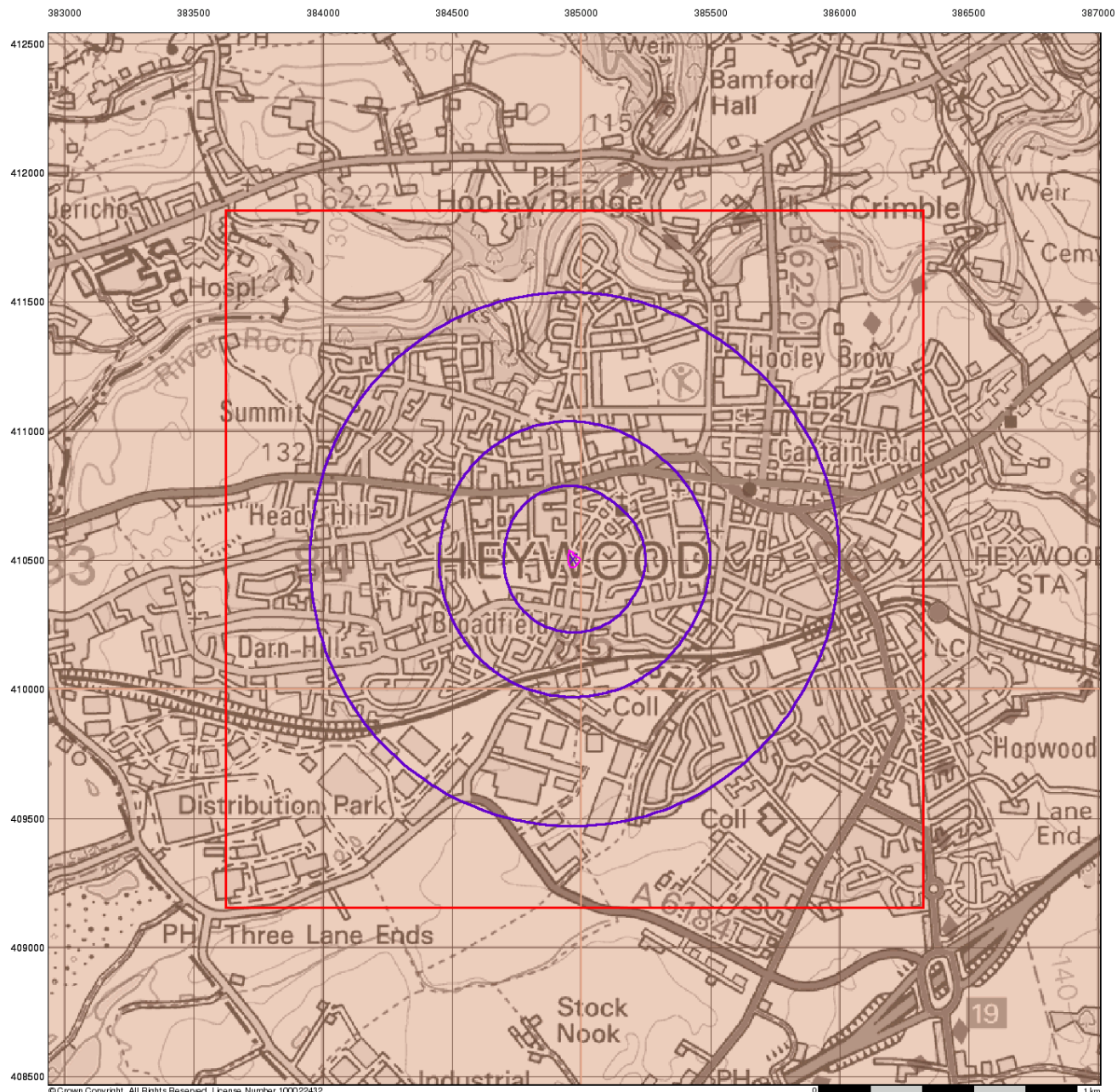
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 Customer Ref: POR017084
 National Grid Reference: 384970, 410500
 Slice: A
 Site Area (Ha): 0.2
 Search Buffer (m): 1000

Site Details

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Bedrock Aquifer Designation

General

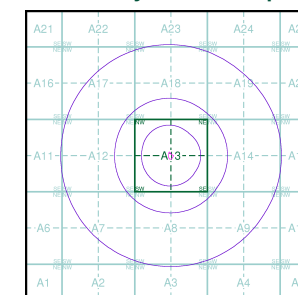
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

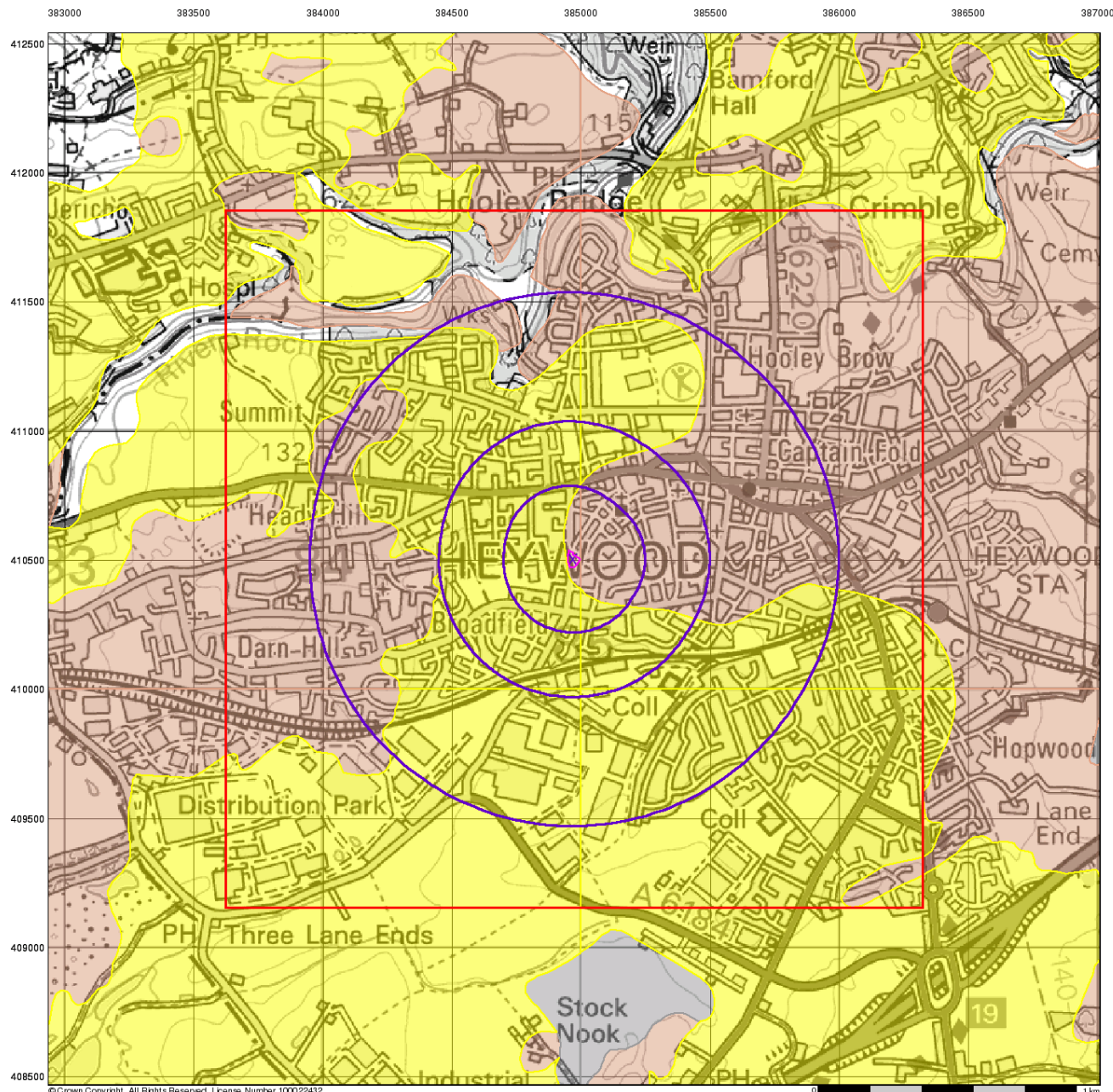
Order Number: 325232792_1_1
 Customer Ref: POR017084
 National Grid Reference: 384970, 410500
 Slice: A
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Superficial Aquifer Designation

General

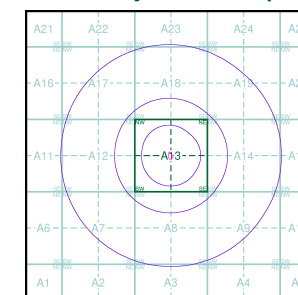
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

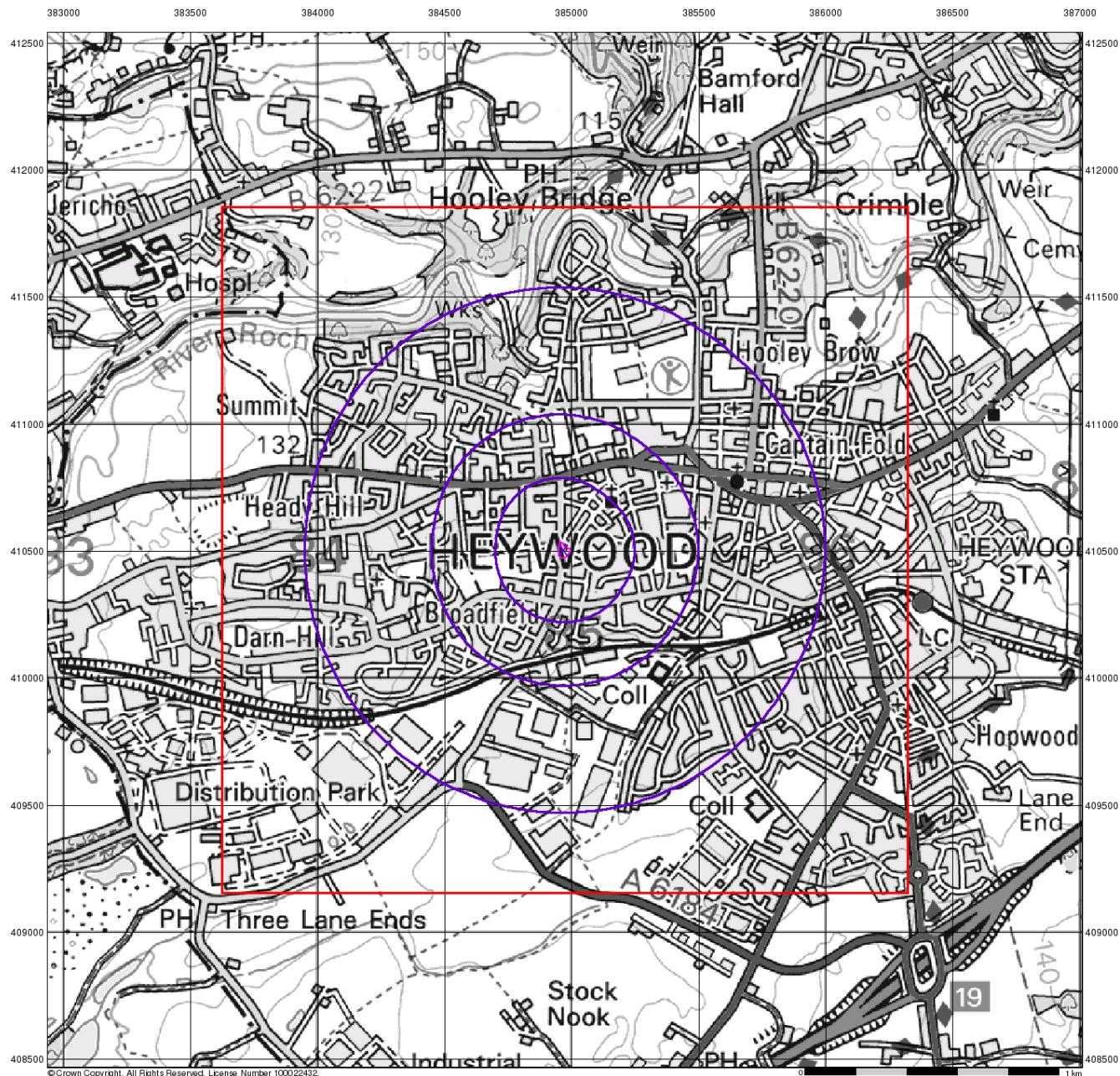
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Source Protection Zones

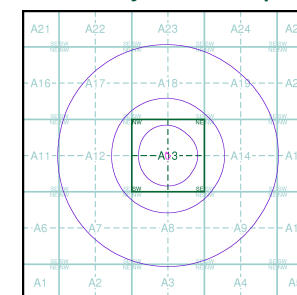
General

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

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A



Order Details

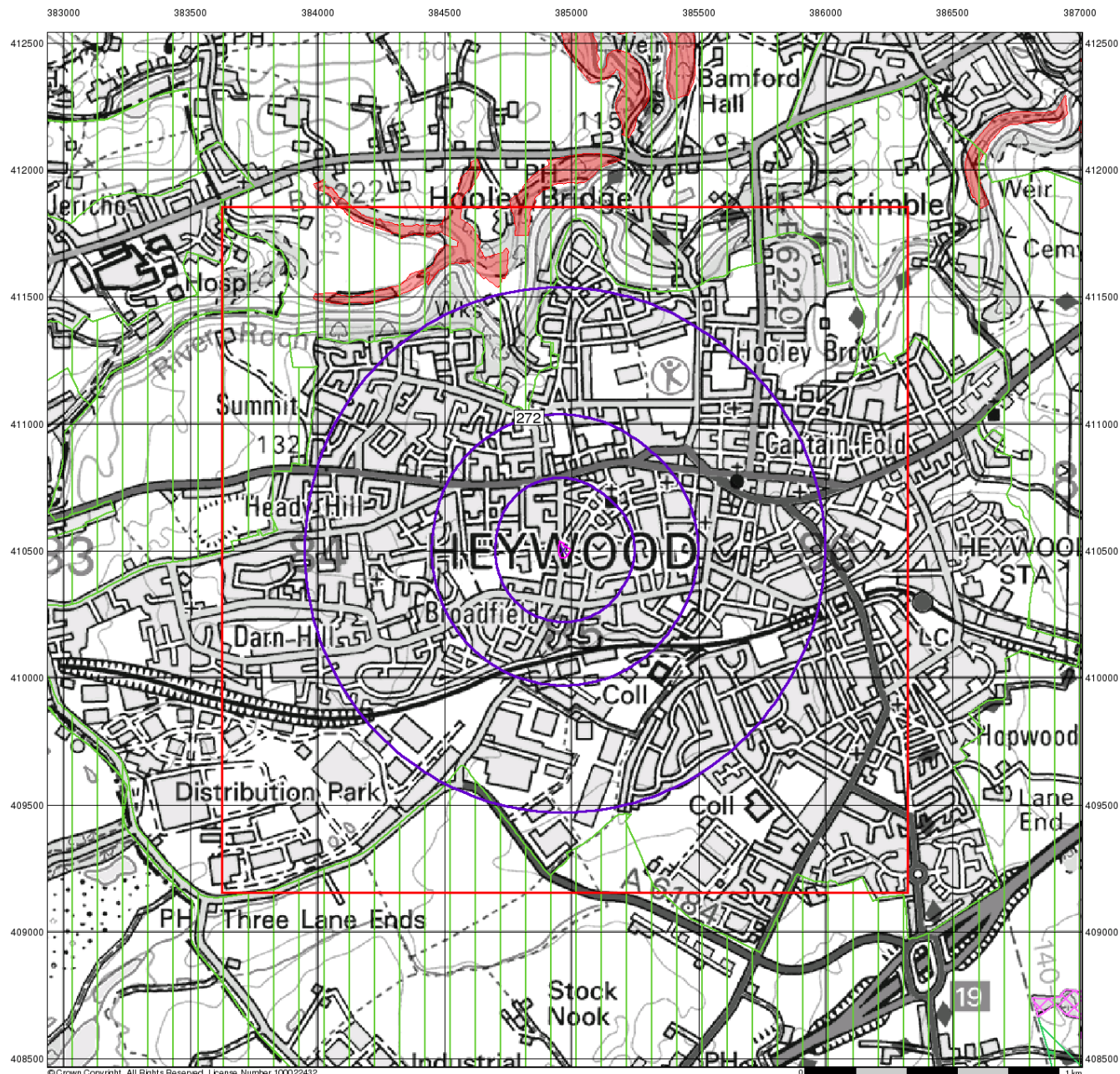
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Sensitive Land Uses

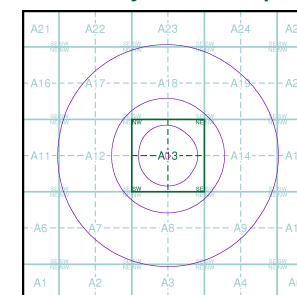
General

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

Sensitive Land Uses

- Ancient Woodland
- 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
- World Heritage Sites

Site Sensitivity Context Map - Slice A



Order Details

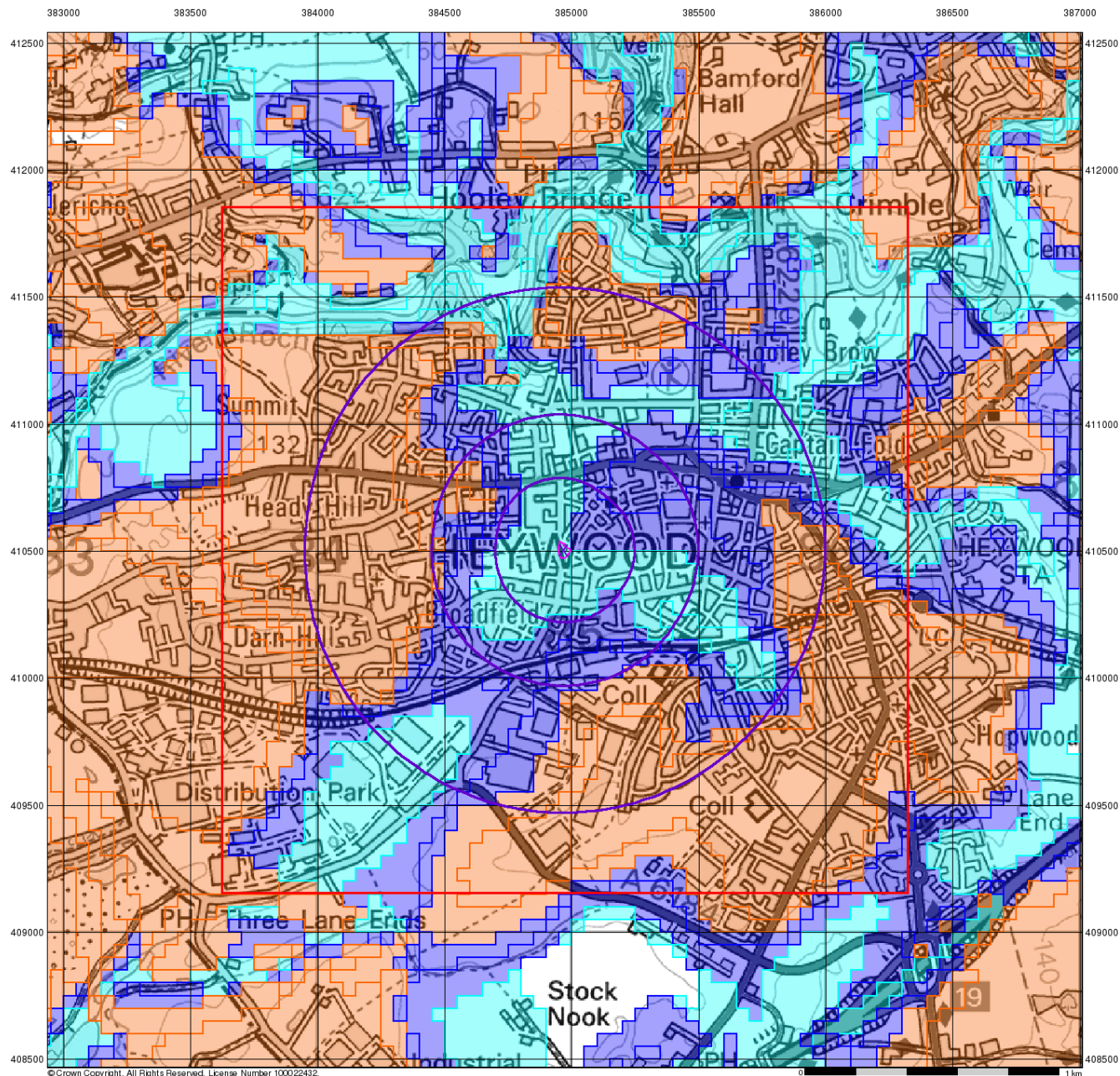
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BGS Flood GFS Data

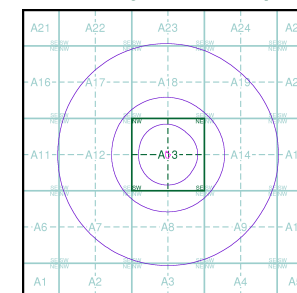
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFSD	Glaciofluvial Sheet Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	GFICD	Glaciofluvial Ice Contact Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	HMGDD	Hummocky (Moundy) Glacial Deposits, Devensian	Diamicton	Not Supplied - Devensian
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Not Supplied - Quaternary
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	LDE	Lacustrine Deposits	Sand and Gravel	Not Supplied - Quaternary
	PEAT	Peat	Peat	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	OL	Old Lawrence Rock	Sandstone	Not Supplied - Westphalian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	HER	Helpet Edge Rock	Sandstone	Not Supplied - Westphalian
	GAS	Great Arc Sandstone	Sandstone	Not Supplied - Westphalian
	WH	Woodhead Hill Rock	Sandstone	Not Supplied - Westphalian
	RSC	Riddle Scout Rock	Sandstone	Not Supplied - Westphalian
	DF	Darwen Flags	Sandstone	Not Supplied - Westphalian
	MLRS	Milnrow Sandstone	Sandstone	Not Supplied - Westphalian
	ROSSE	Rossendale Formation	Mudstone and Siltstone	Not Supplied - Namurian
	RR	Rough Rock	Sandstone	Not Supplied - Namurian
		Faults		
		Rock Segments		

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Geology 1:50,000 Maps

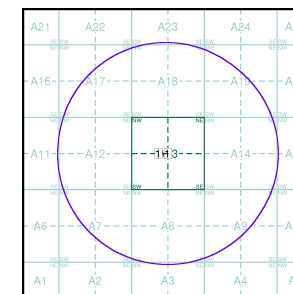
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID: 1
Map Sheet No: 085
Map Name: Manchester
Map Date: 2010
Bedrock Geology: Available
Superficial Geology: Not Available
Artificial Geology: Not Available
Faults: Not Supplied
Landslip: Not Available
Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

Order Number: 328082648_1_1
Customer Reference: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

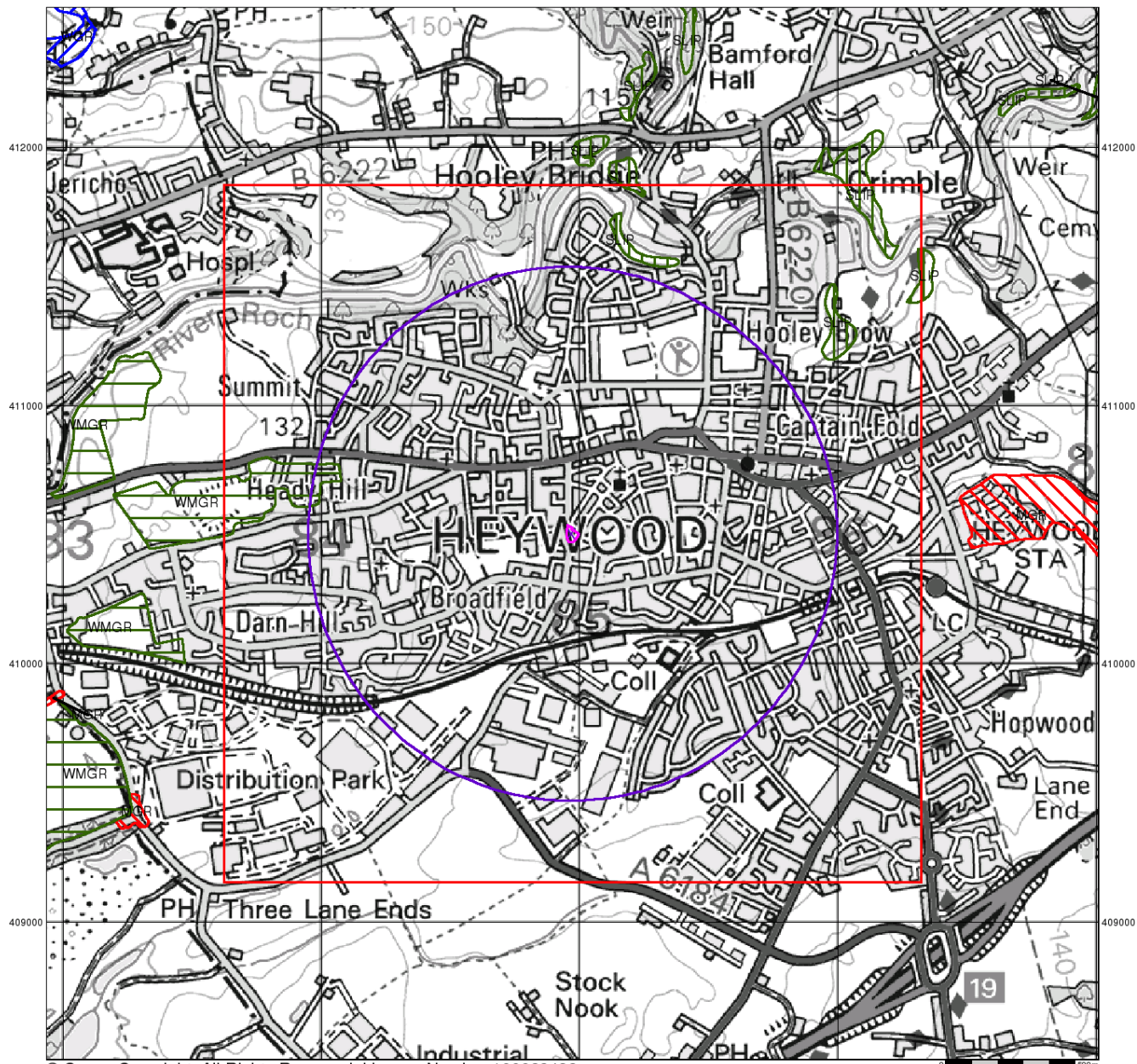
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Artificial Ground and Landslip

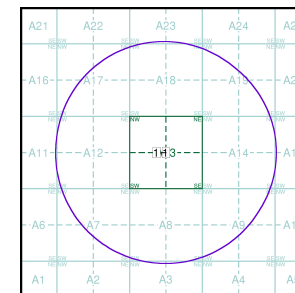
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details:

Order Number: 328082648_1_1
Customer Reference: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
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Site Details:

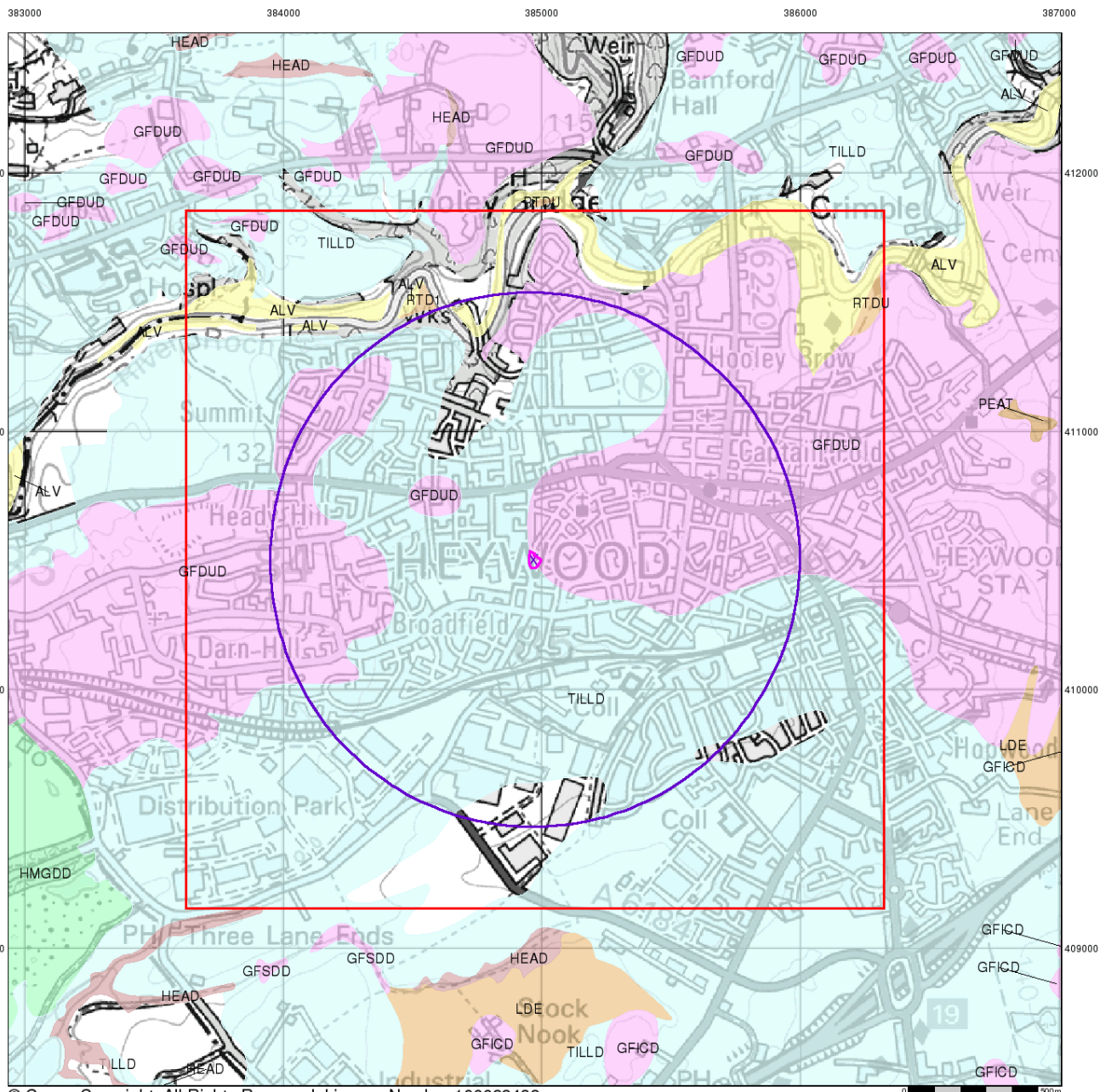
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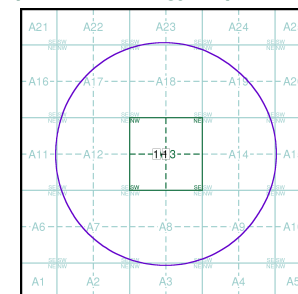
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details:

Order Number: 328082648_1_1
 Customer Reference: POR017084
 National Grid Reference: 384970, 410500
 Slice: A
 Site Area (Ha): 0.2
 Search Buffer (m): 1000

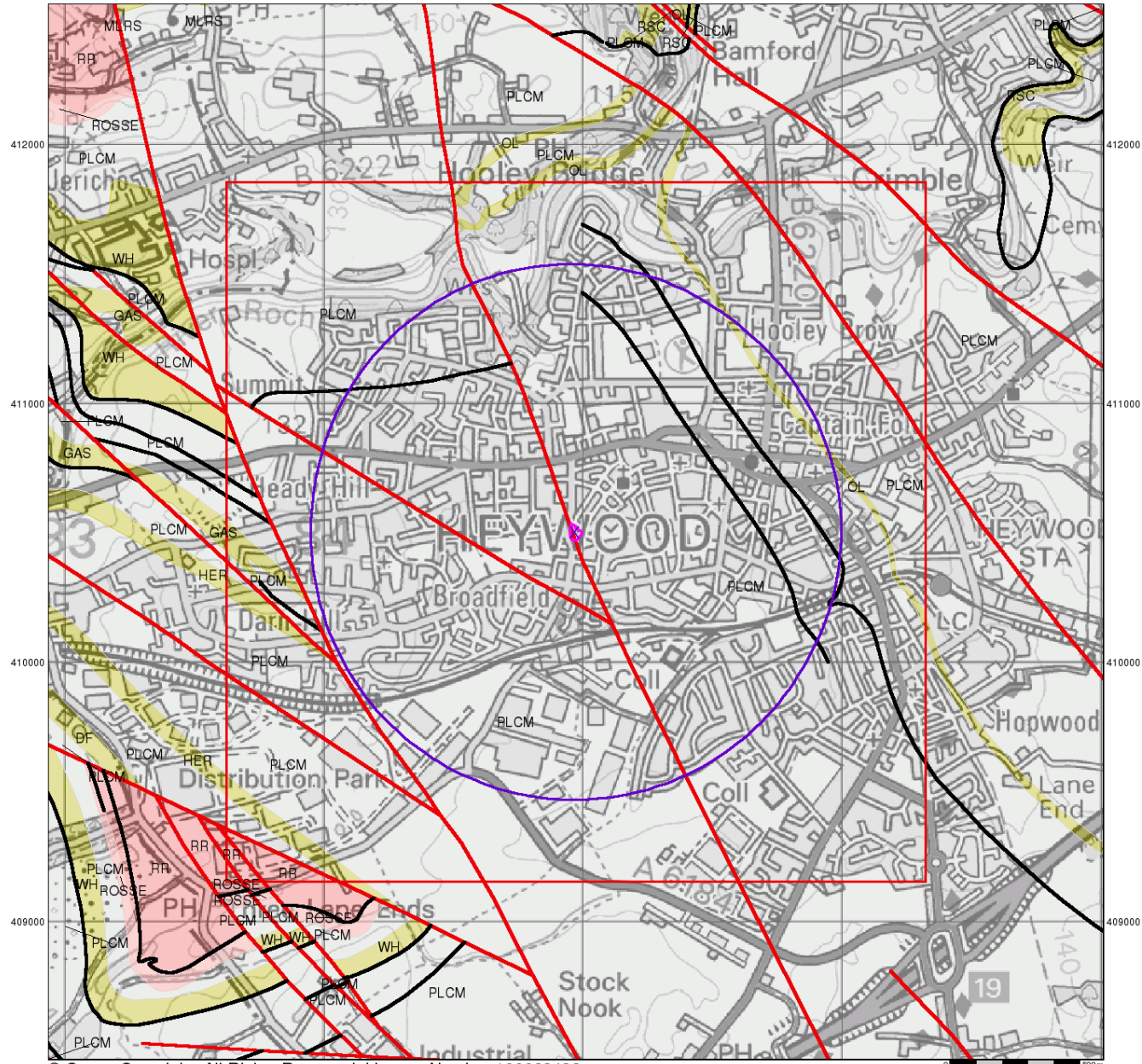
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Bedrock and Faults

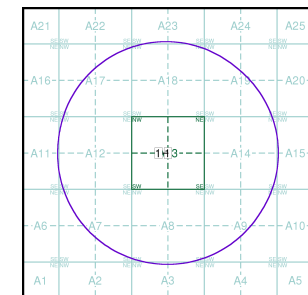
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



Order Details:

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Customer Reference: POR017084
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Site Area (Ha): 0.2
Search Buffer (m): 1000

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	•285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

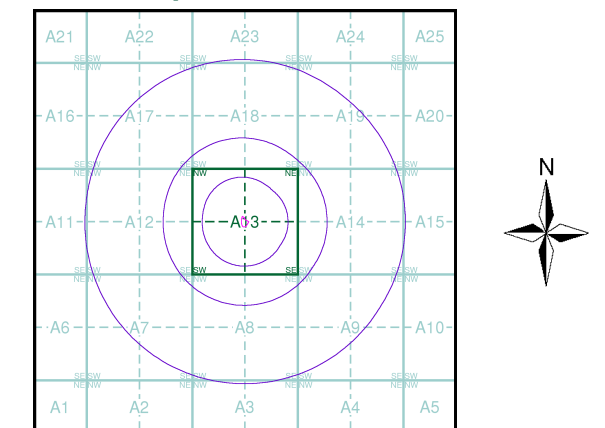
1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1851	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1910 - 1911	5
Lancashire And Furness	1:10,560	1931 - 1932	6
Lancashire And Furness	1:10,560	1938 - 1939	7
Ordnance Survey Plan	1:10,000	1955 - 1956	8
Ordnance Survey Plan	1:10,000	1965 - 1968	9
Ordnance Survey Plan	1:10,000	1974 - 1977	10
Manchester	1:25,000	1975	11
Ordnance Survey Plan	1:10,000	1983 - 1988	12
Ordnance Survey Plan	1:10,000	1993	13
10K Raster Mapping	1:10,000	1999	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2023	16

Historical Map - Slice A



Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

23-511 Pilsworth Road, HEYWOOD

Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings

Military and Industrial Buildings

Military and Communication Areas

Subway Entrance

Fireproof Building

Prominent Fireproof Building

Non-fireproof Building

Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys

Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale

Hydroelectric Power Station

Radio Station, drawn to scale

Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry

Open-pit Salt Mine

Pit

Oil Deposit or Well

Oil Seepage

Tailings Pile

Fuel Storage Tanks

Natural Gas Tank

Bench Mark

Drill Hole

Burial Mound

Triangulation Point on Burial Mound

Single-track Railroad

Double-track Railroad and Station Building

Coniferous Forest

Deciduous Forest

Mixed Forest

Lawns

Citrus Orchard

Wet Ground

Scattered Vegetation

243.8 Values for prominent elevations
186.0 Numbers for spot elevations, depth soundings, contour lines, etc.
0.2 Velocity of the current, width of river bed, depth of river
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ъ (-)
Д д (D)	Л л (L)	У у (U)	Ы (Y)
Е е (E)	М м (M)	Ф ф (F)	Ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings

Military and Industrial Buildings

Military and Communication Areas

Subway Entrance

Partly Demolished Buildings

Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant

Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building

Prominent Industrial Building

Individual Dwelling, Fireproof

Ruins of an Individual Dwelling

Factory or Mill Chimney

Factory or Mill with Chimney

Factory or Mill without Chimney

Mine or Open Pit Mine

Operating Shaft or Mine

Non-Operating Shaft or Mine

Salt Mine

Tailings Pile

Pit

Stone Quarry

Gas Pump or Service Station

Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick

Small Hydroelectric Power Station

Power Station

Transformer Station

Cemetery

Burial Mound (height in metres)

Triangulation Point on Burial Mound

Triangulation Point

Bench Mark

Bench Mark (monumented)

Telegraph Office

Telephone Station

Radio Station

Radio Tower

Airfield or Seaplane Base

Landing Strip

Cut, Fill, Km Post, Plantings

Telegraph/Telephone Lines

Main Highway

Highway under Construction

Improved Dirt Road (former truck road)

Small Bridge, Pipe (Culvert), Tunnel

Double-track Railroad with First Class Station

Dismantled Railroad

Railroad Under Construction

Shore Embankment

River or Ditch with Embankment

Direction and velocity of current

Water Gauge

Water Level Mark

Well

Water Reservoir or Rain Water Pit

Spring

Isobath with value

Heavy (Index) Contour Line

Contour Line and Value

Half Contour Line

Spot Elevation Value

Coniferous

Deciduous

Mixed

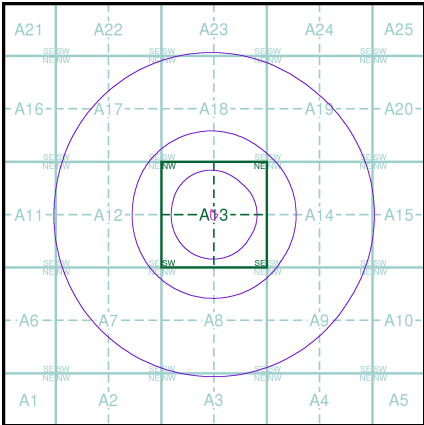
Scrub

Key to Numbers on Mapping

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1851	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1910 - 1911	5
Lancashire And Furness	1:10,560	1931 - 1932	6
Lancashire And Furness	1:10,560	1938 - 1939	7
Ordnance Survey Plan	1:10,000	1955 - 1956	8
Ordnance Survey Plan	1:10,000	1965 - 1968	9
Ordnance Survey Plan	1:10,000	1974 - 1977	10
Manchester	1:25,000	1975	11
Ordnance Survey Plan	1:10,000	1983 - 1988	12
Ordnance Survey Plan	1:10,000	1993	13
10K Raster Mapping	1:10,000	1999	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2023	16

Russian Map - Slice A

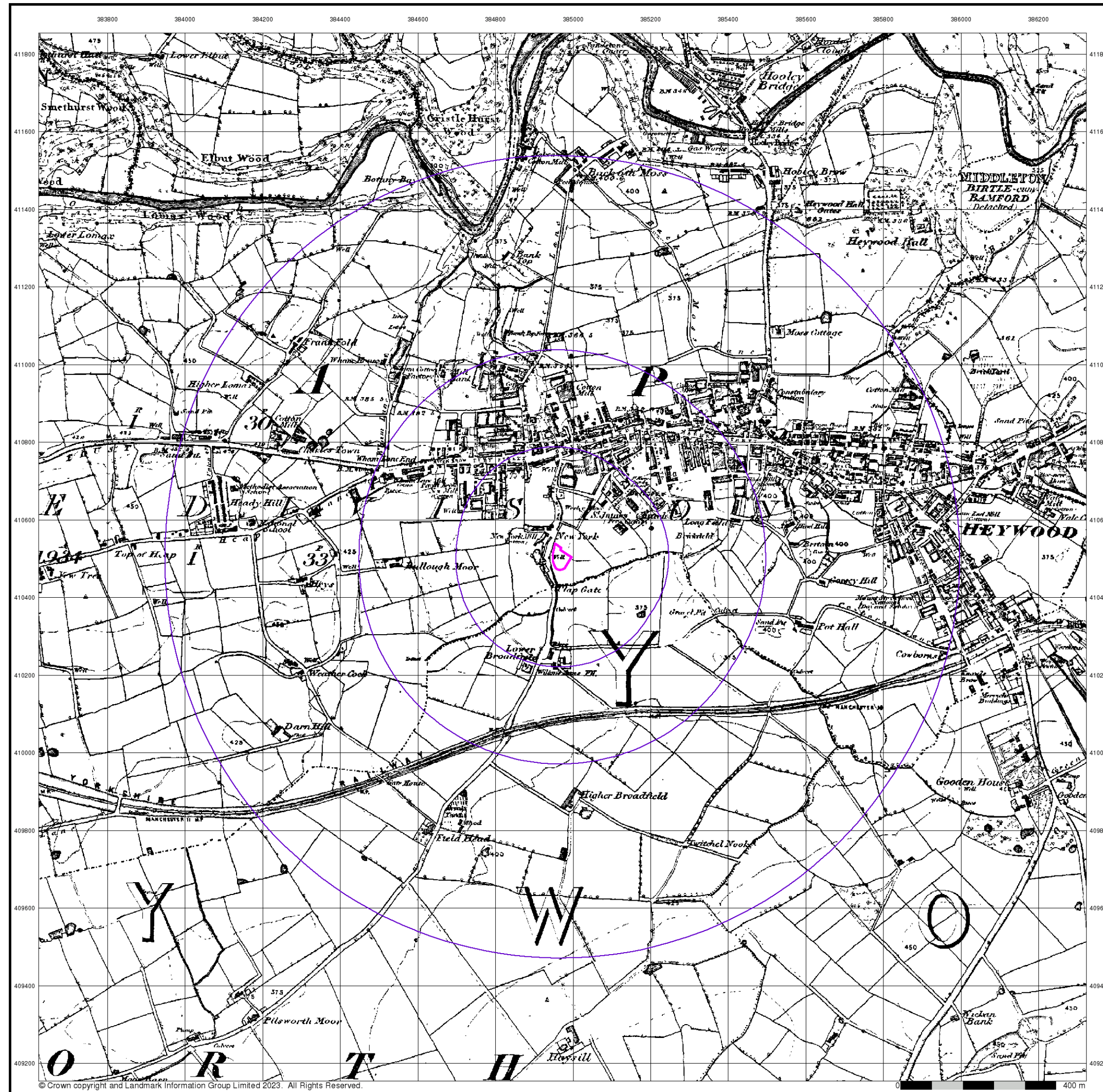


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

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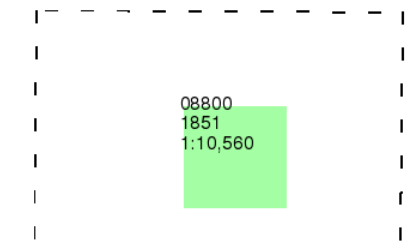
Lancashire And Furness

Published 1851

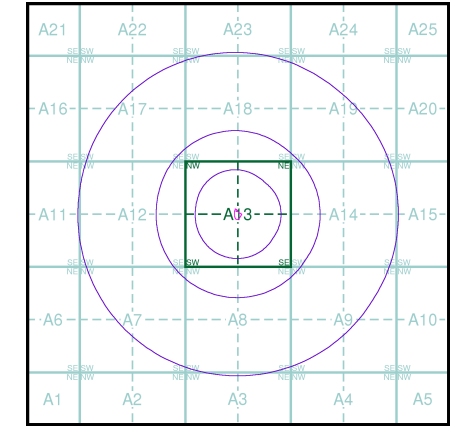
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

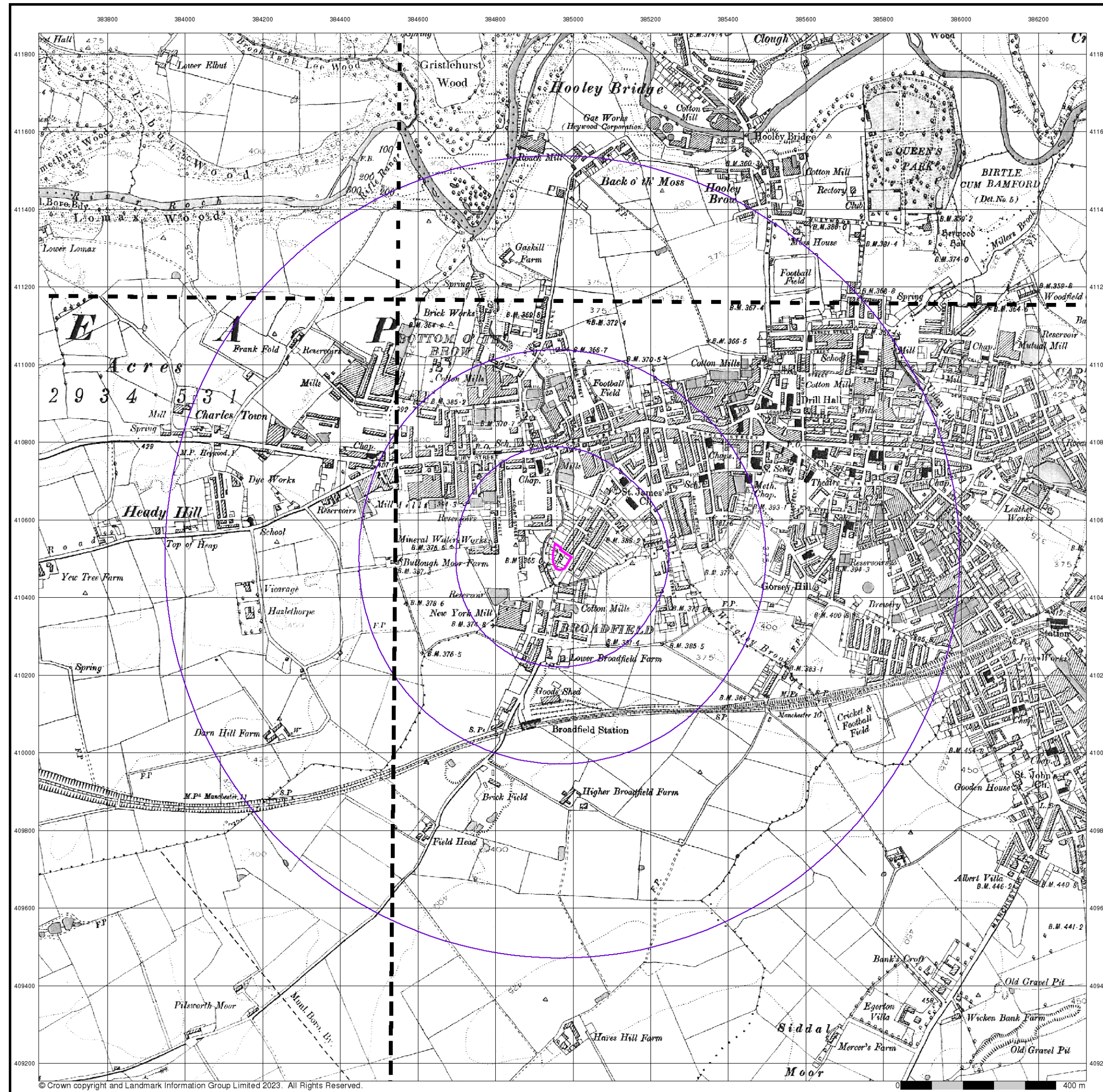


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

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Lancashire And Furness

Published 1894

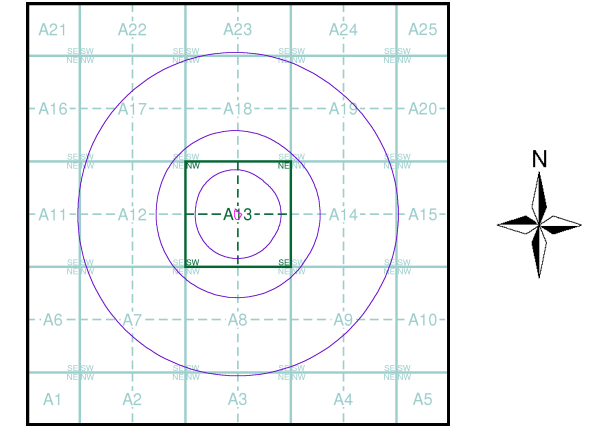
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

088NW 1894 1:10,560	088NE 1894 1:10,560
088SW 1894 1:10,560	088SE 1894 1:10,560

Historical Map - Slice A

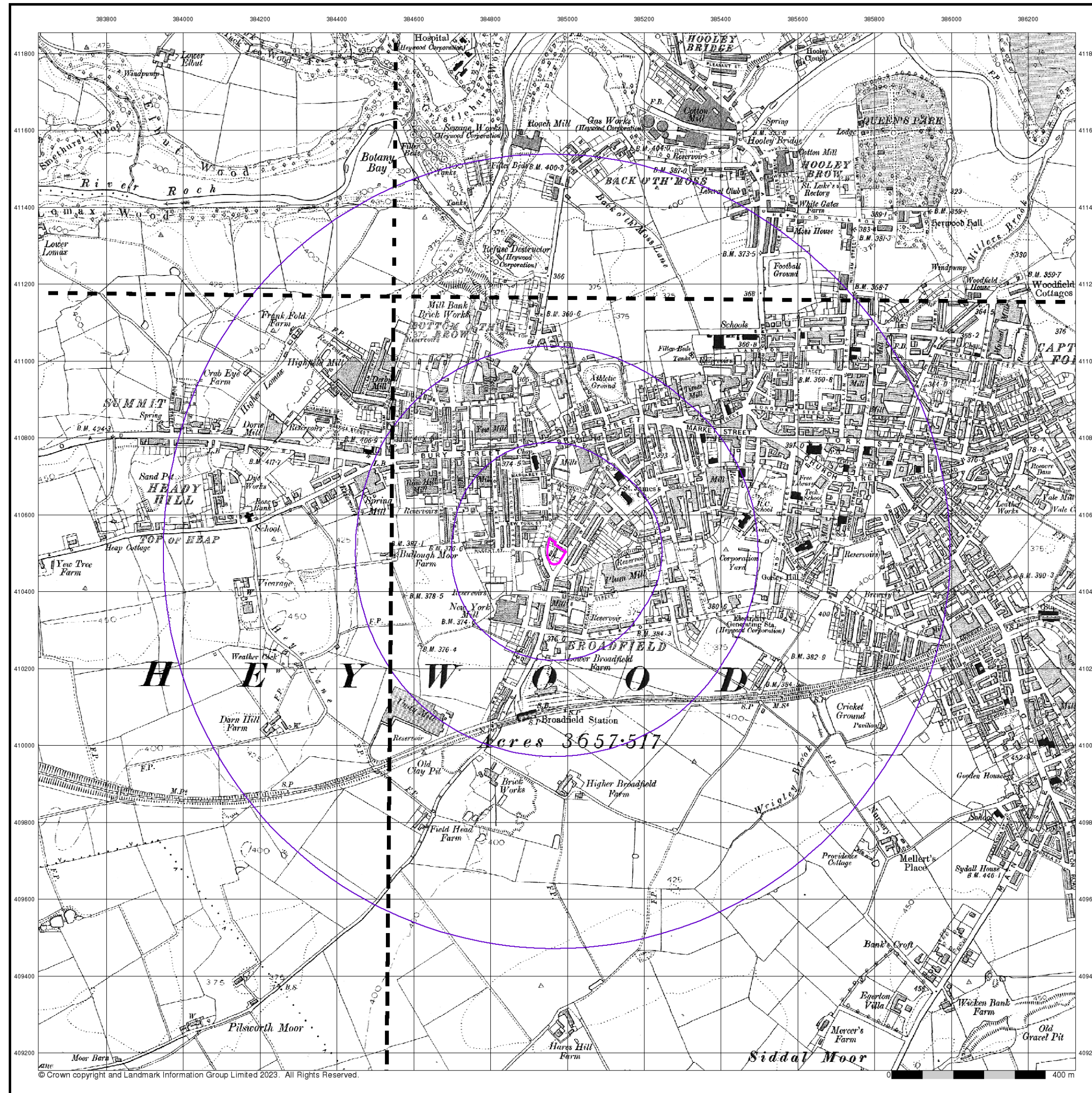


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

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Lancashire And Furness

Published 1910 - 1911

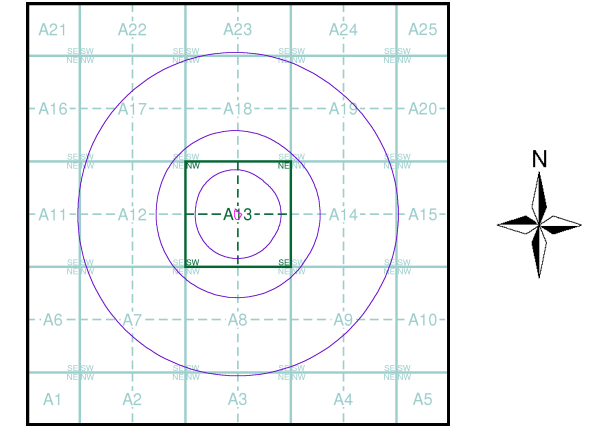
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

088NW 1911 1:10,560	088NE 1911 1:10,560
088SW 1910 1:10,560	088SE 1910 1:10,560

Historical Map - Slice A

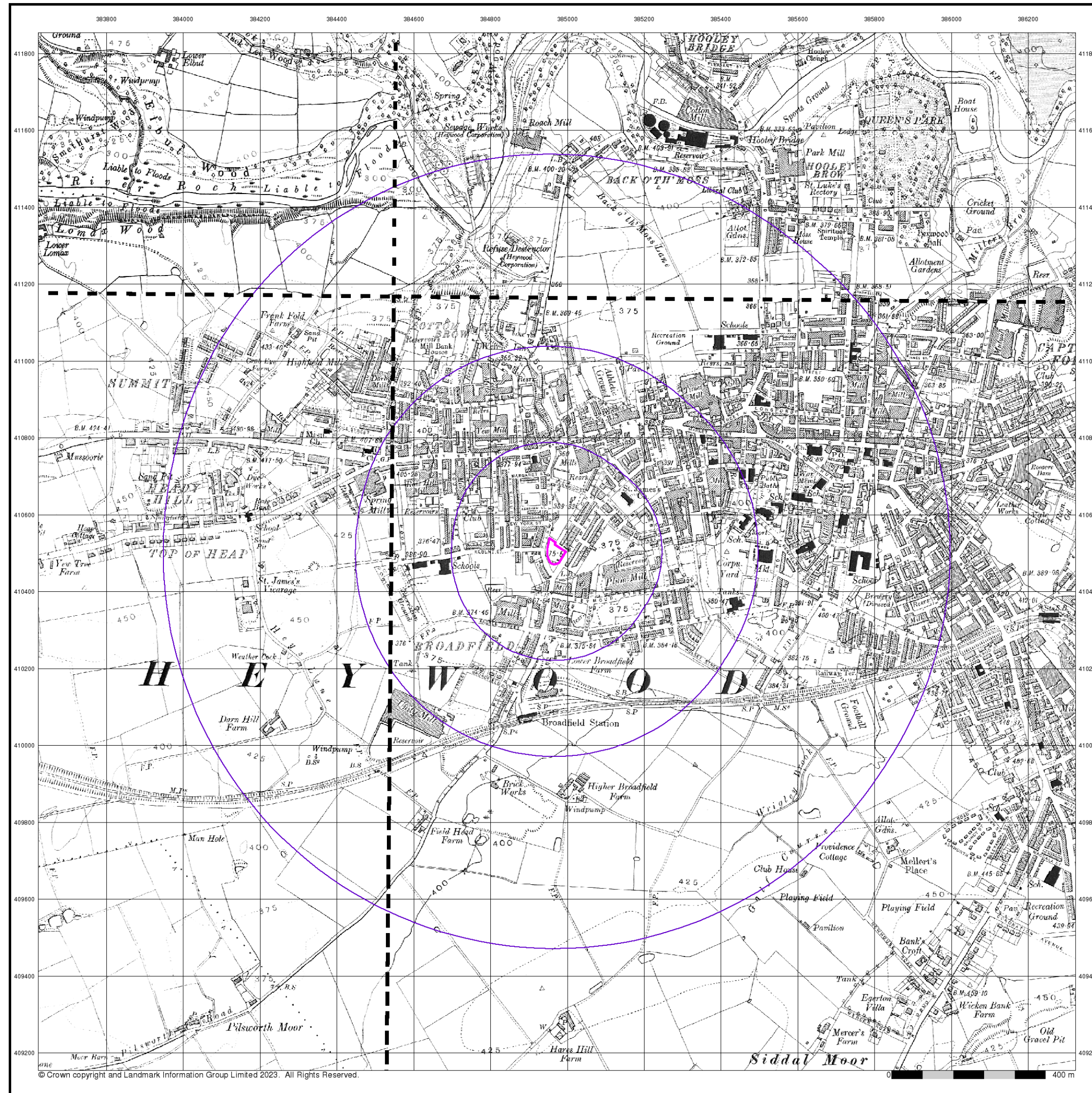


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

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Lancashire And Furness

Published 1931 - 1932

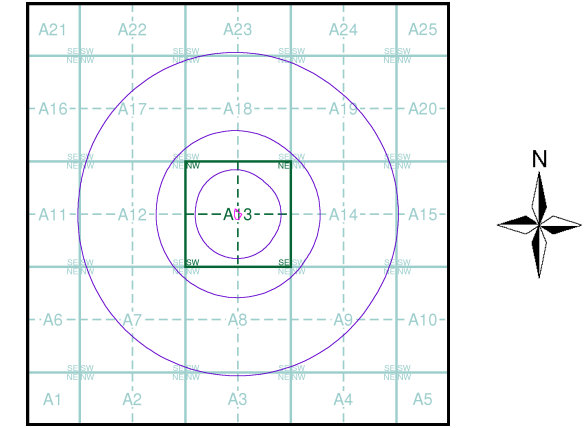
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

088NW 1931 1:10,560	088NE 1932 1:10,560
088SW 1931 1:10,560	088SE 1932 1:10,560

Historical Map - Slice A

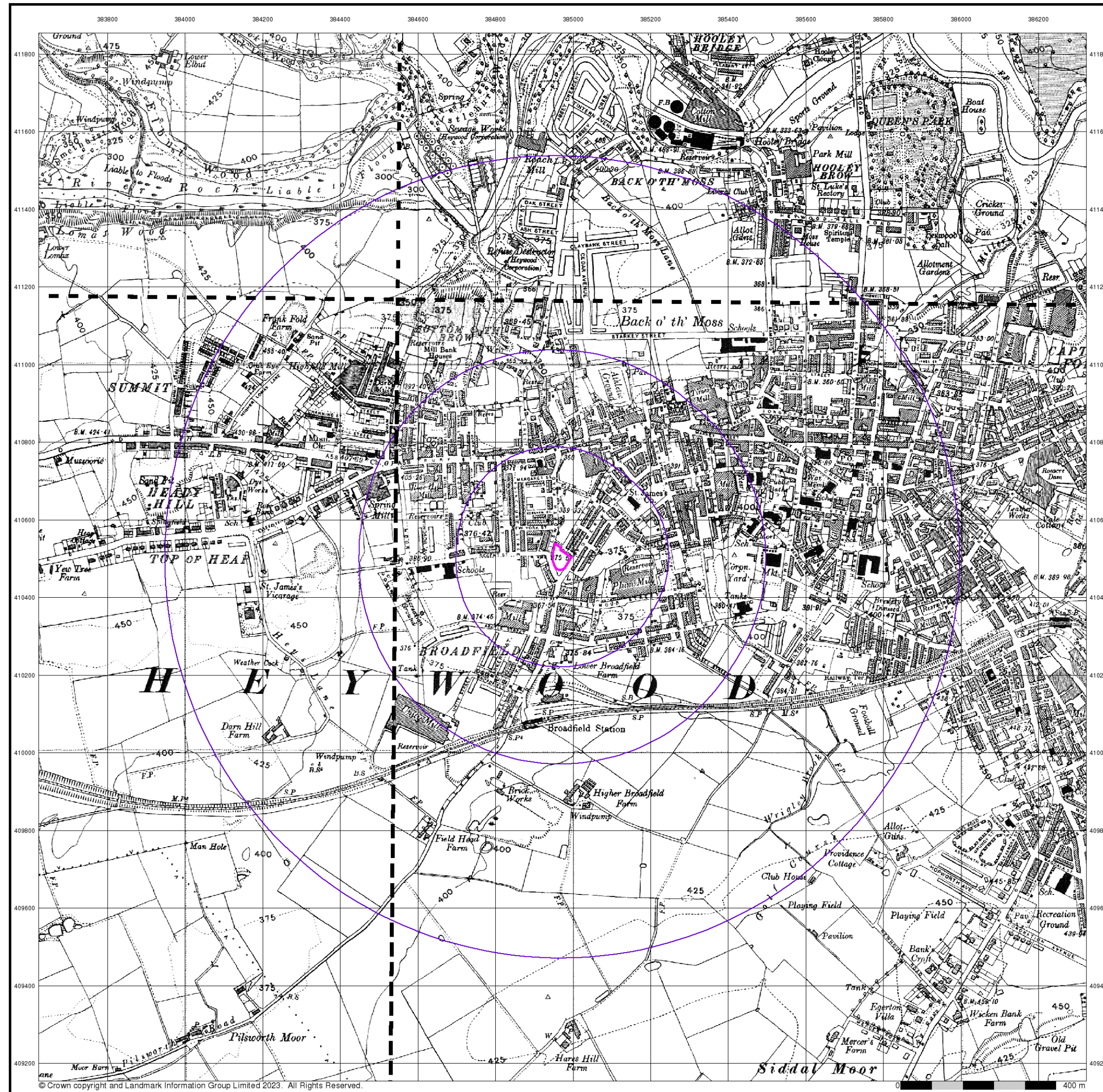


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

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Lancashire And Furness

Published 1938 - 1939

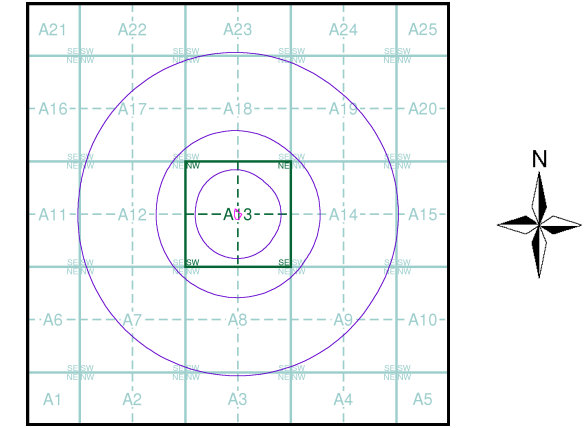
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

088NW 1939 1:10,560	088NE 1938 1:10,560
088SW 1938 1:10,560	088SE 1938 1:10,560

Historical Map - Slice A

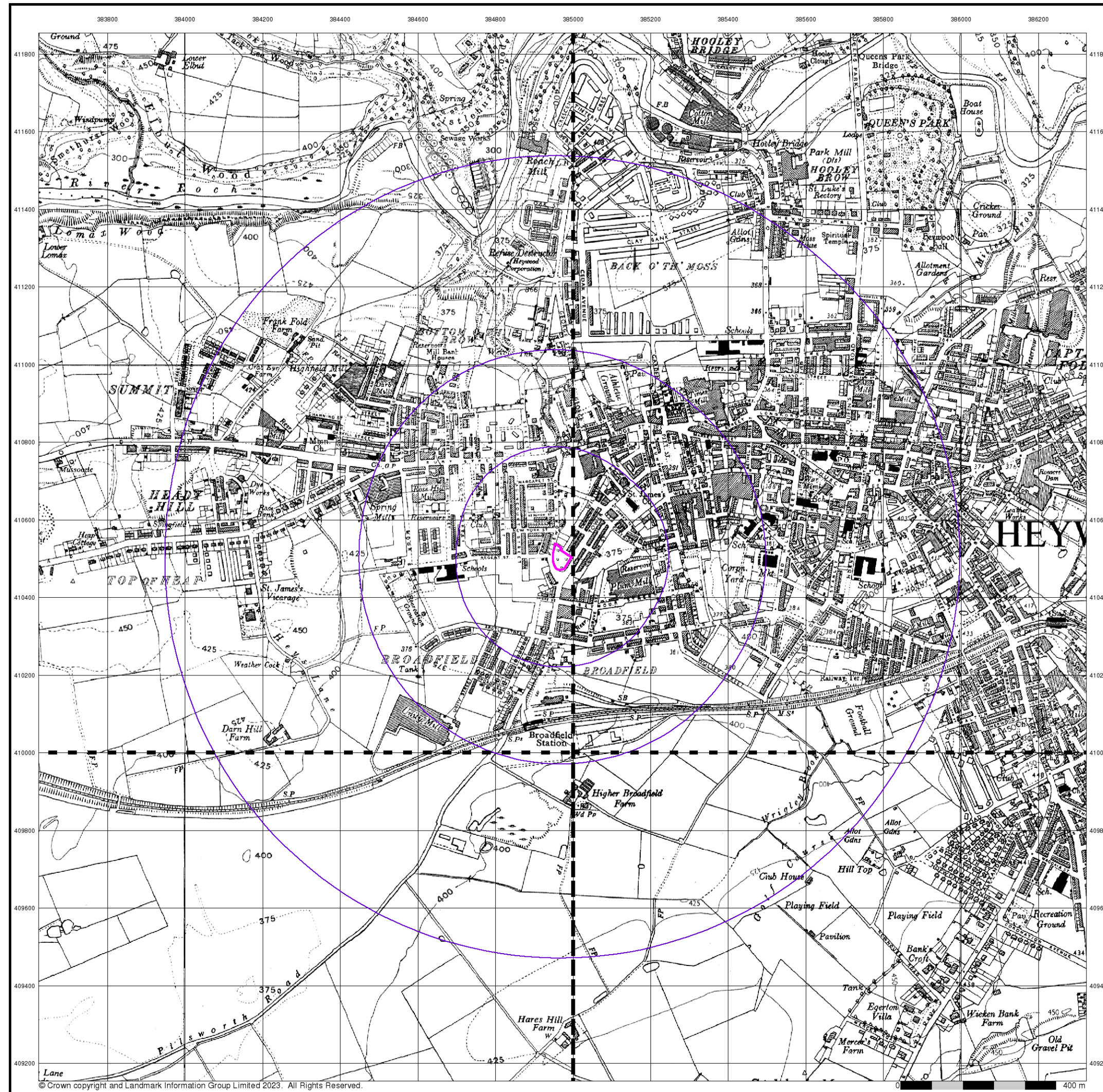


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1955 - 1956

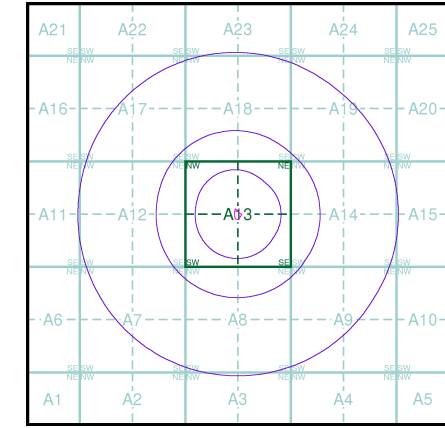
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SD81SW	SD81SE
1956	1956
1:10,560	1:10,560
SD80NW	SD80NE
1955	1956
1:10,560	1:10,560

Historical Map - Slice A



Order Details

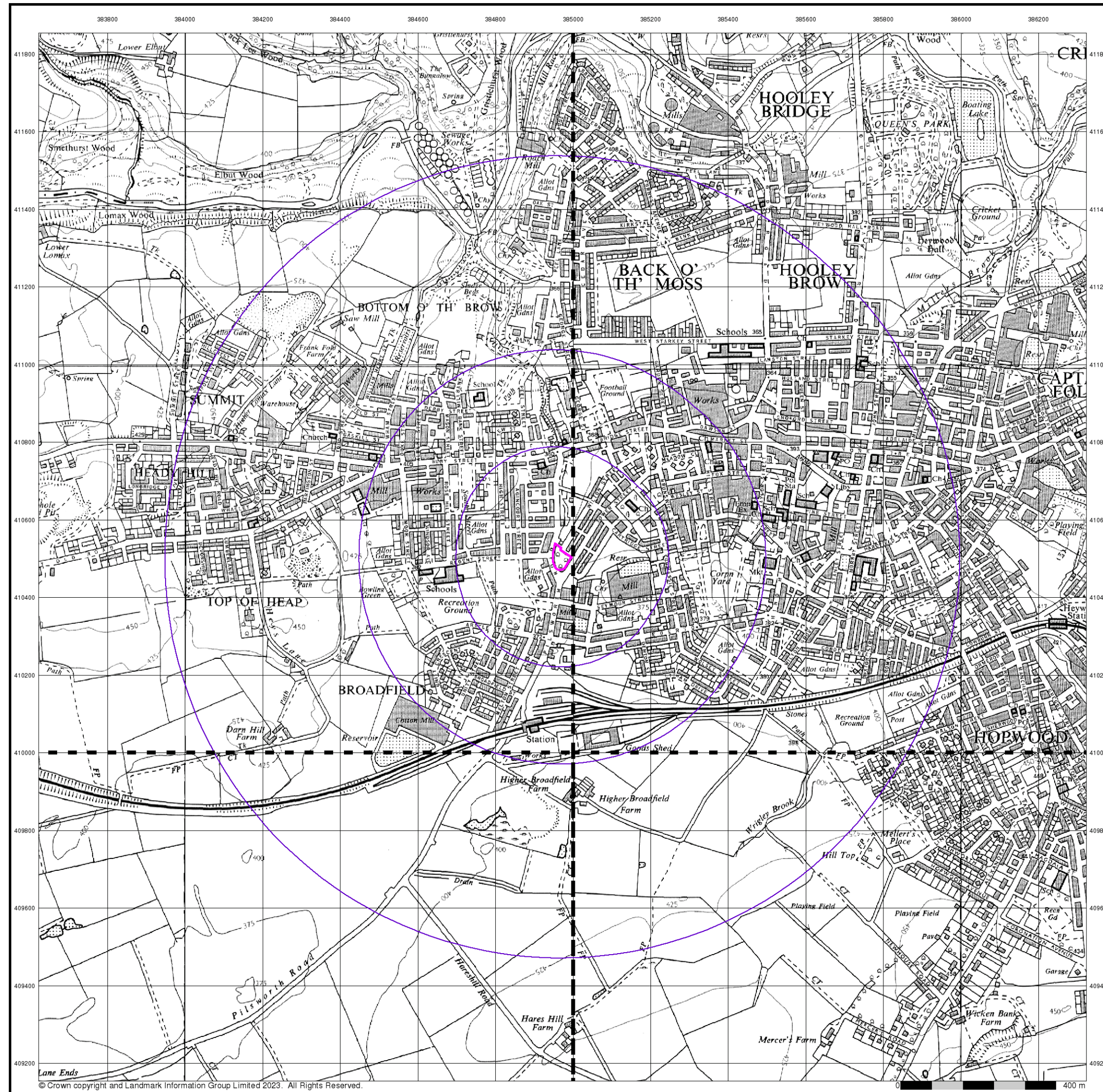
Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1965 - 1968

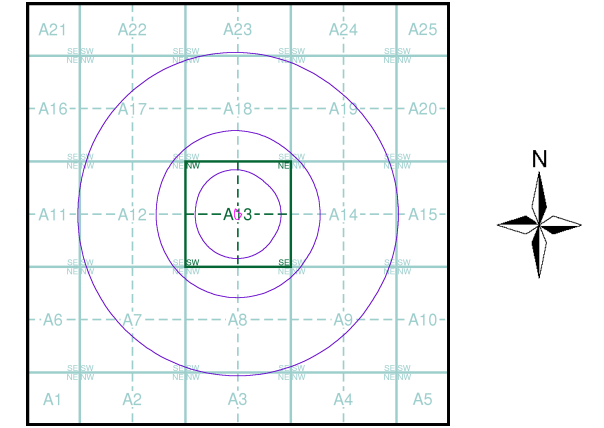
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SD81SW	SD81SE
1967	1968
1:10,560	1:10,560
SD80NW	SD80NE
1965	1965
1:10,560	1:10,560

Historical Map - Slice A

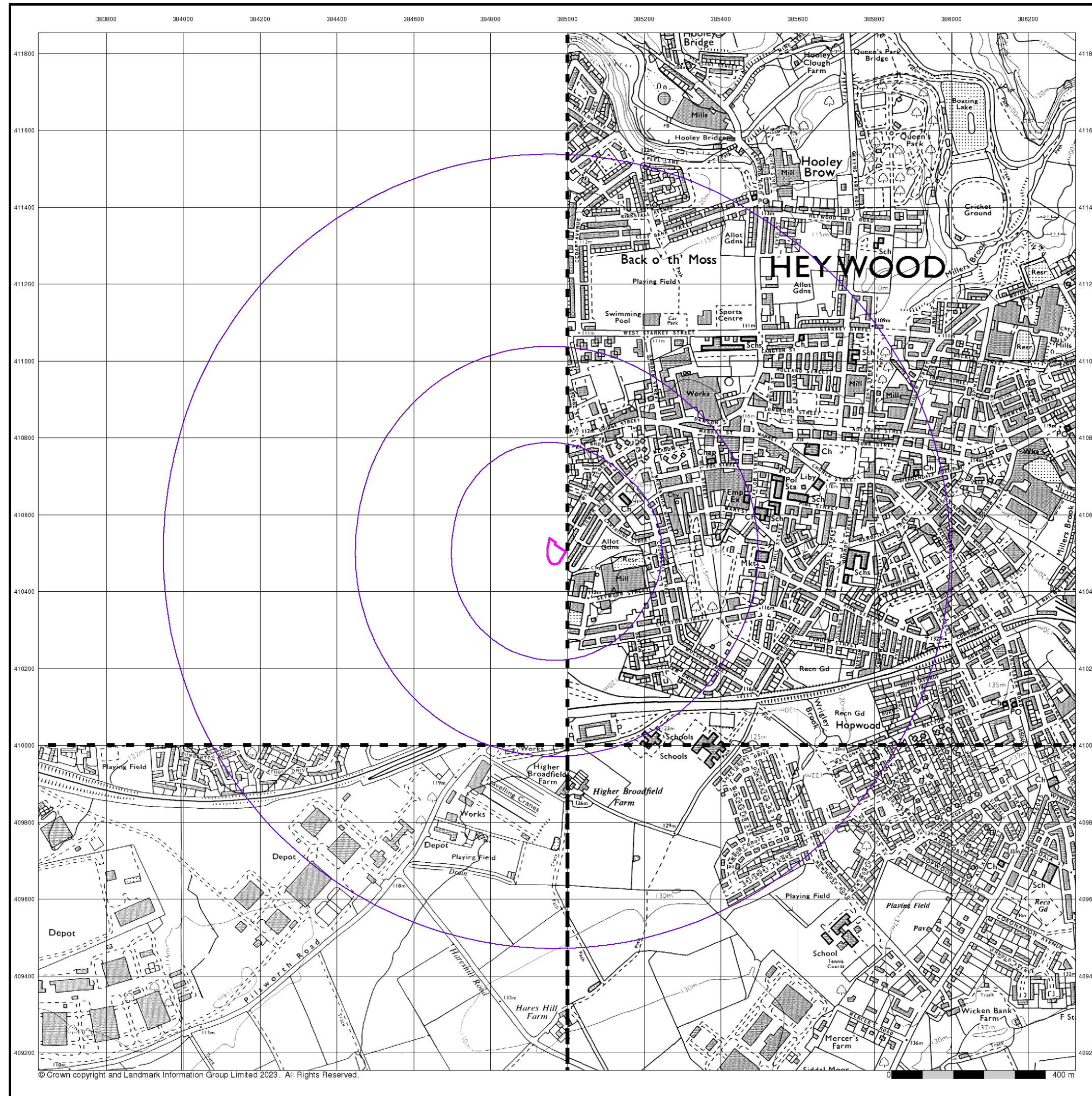


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1974 - 1977

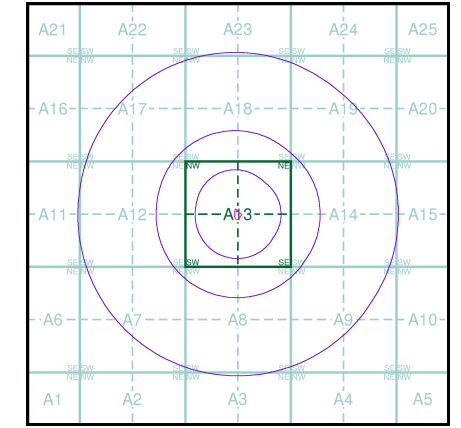
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SD81SE	1977	1:10,000
SD80NW	1974	1:10,000
SD80NE	1977	1:10,000

Historical Map - Slice A

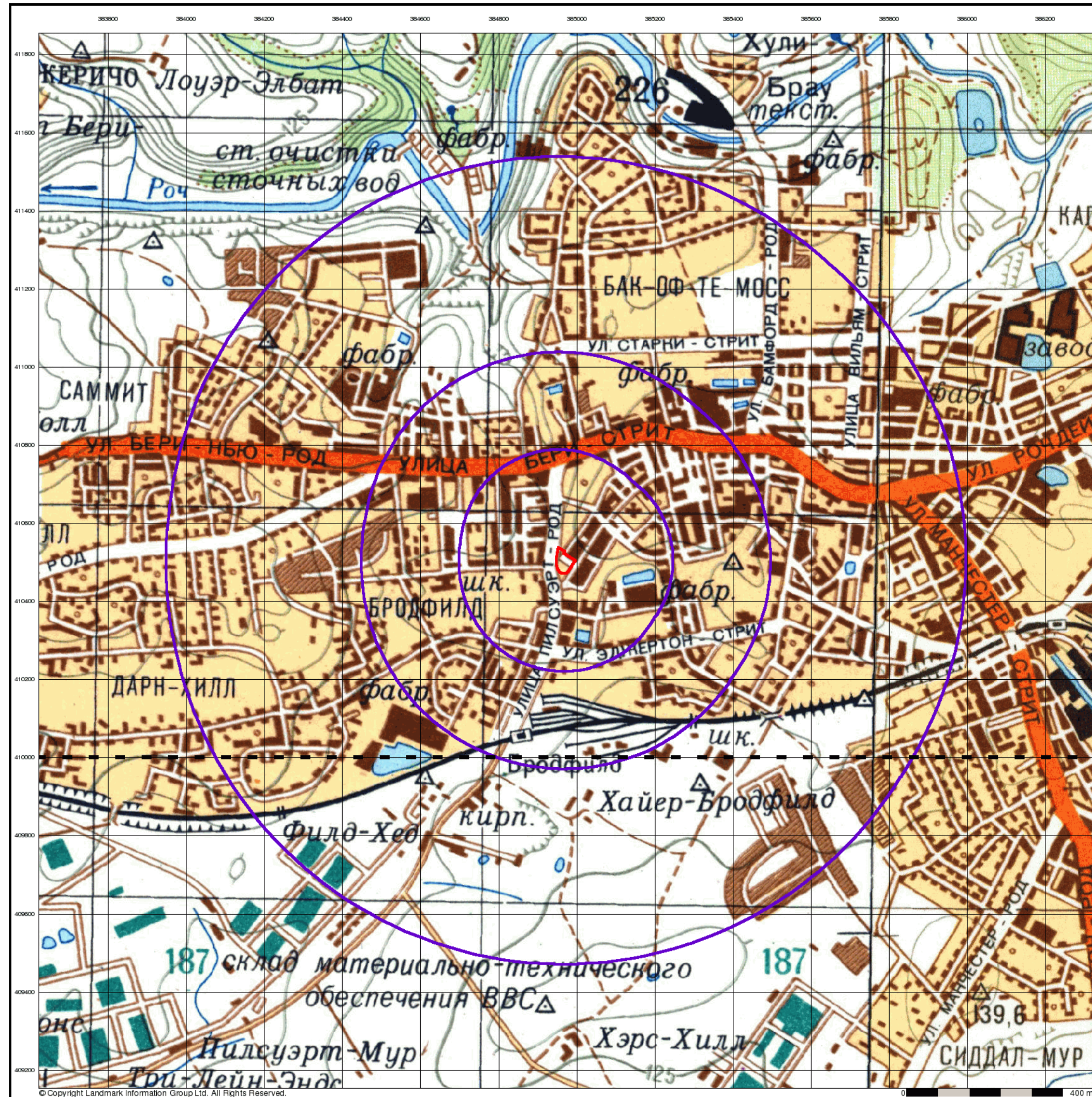


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

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Manchester

Published 1975

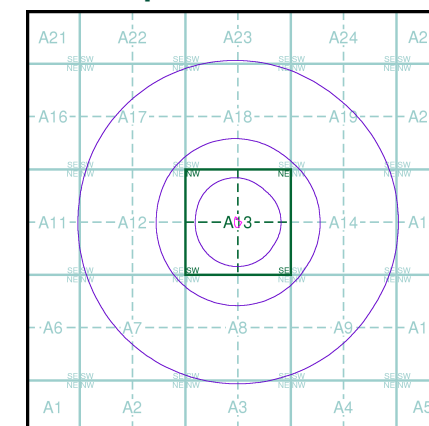
Source map scale - 1:25,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use. They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)

SD81
1975
1:25,000
SD80
1975
1:25,000

Russian Map - Slice A



Order Details

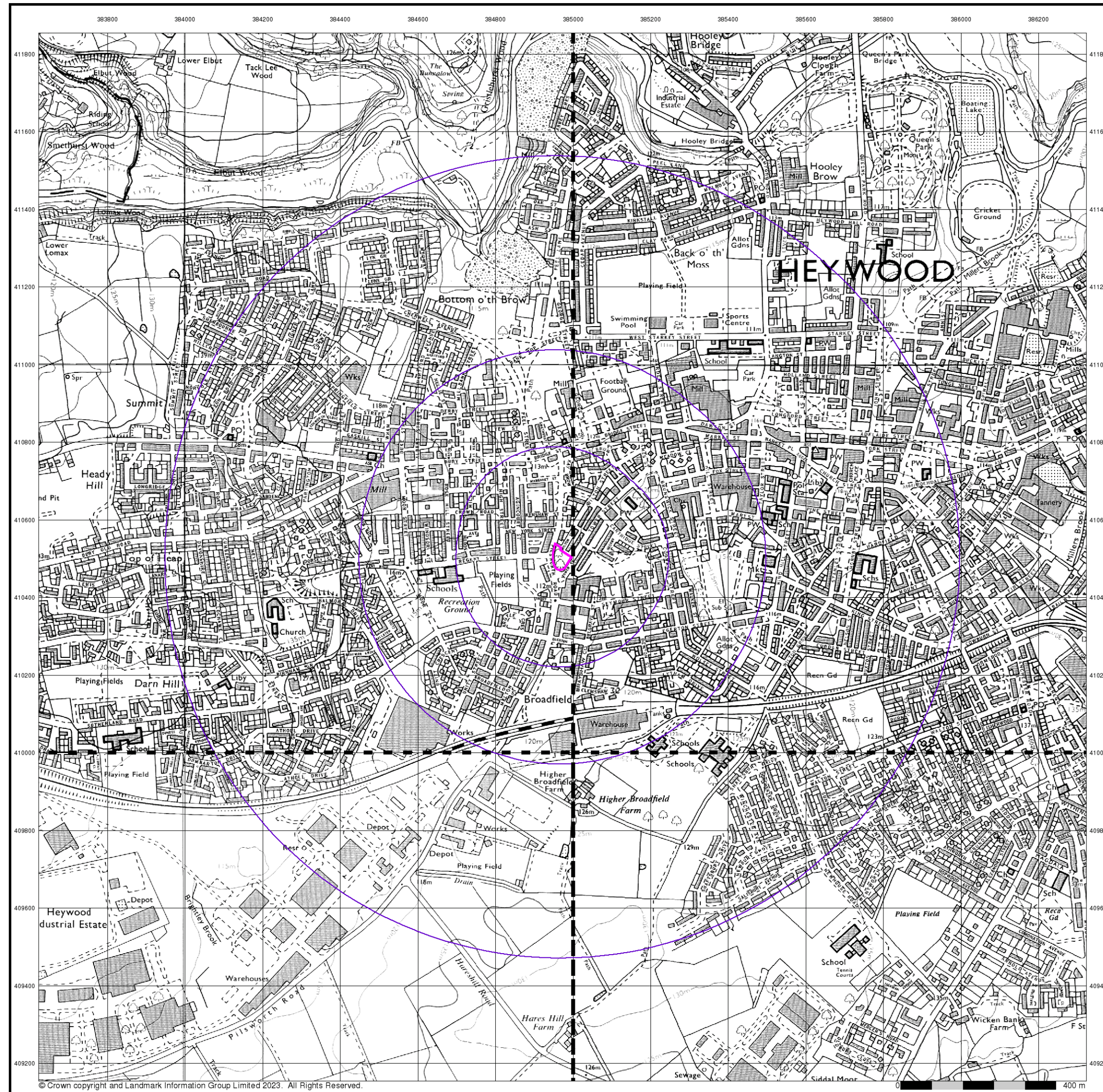
Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

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Ordnance Survey Plan

Published 1983 - 1988

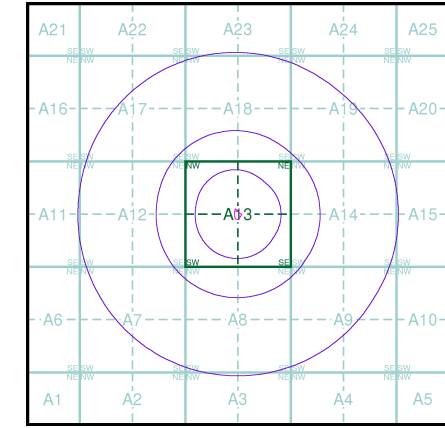
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SD81SW	SD81SE
1984	1988
1:10,000	1:10,000
SD80NW	SD80NE
1983	1984
1:10,000	1:10,000

Historical Map - Slice A



Order Details

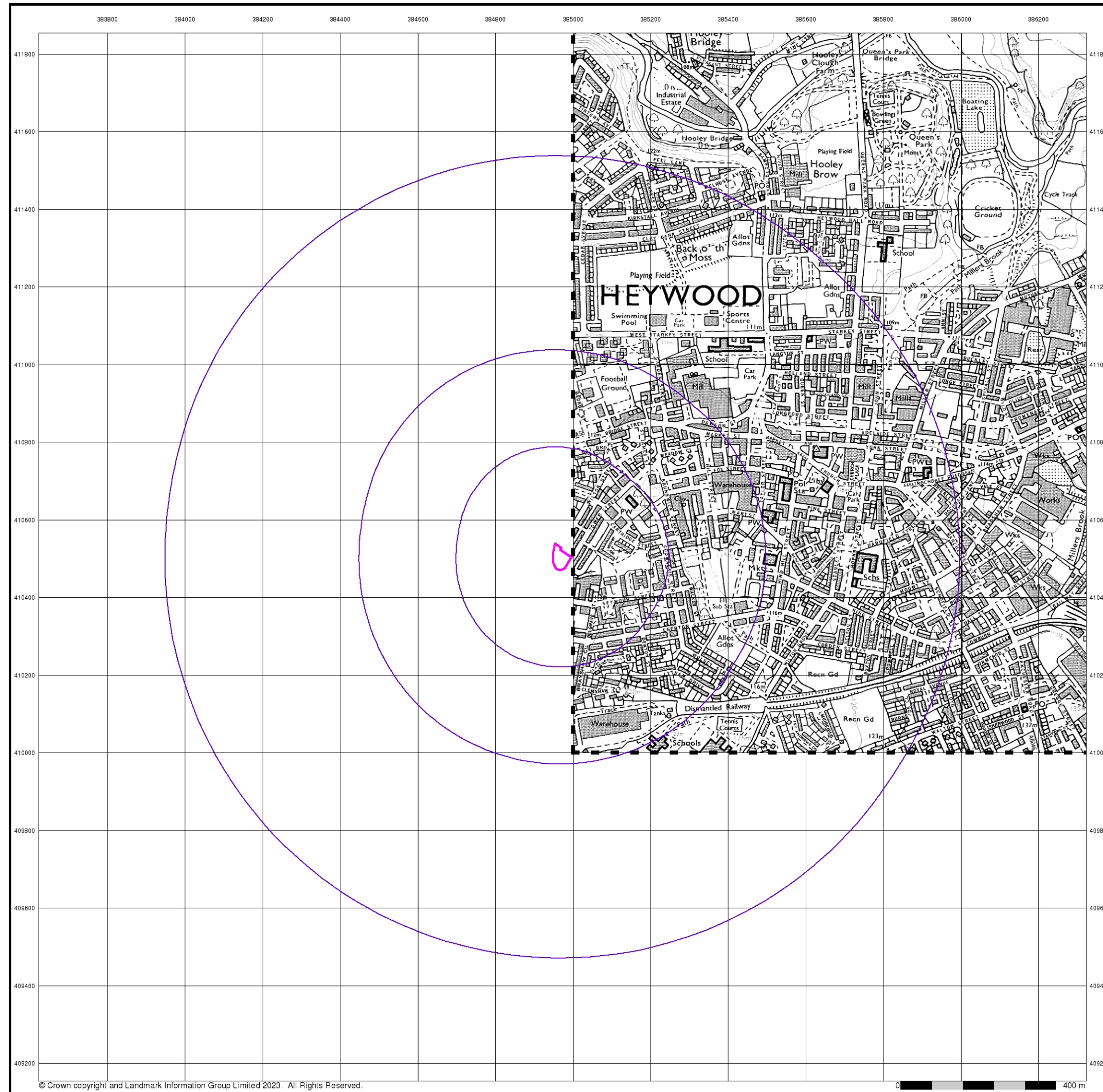
Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
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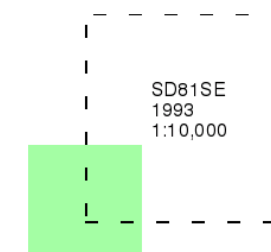
Ordnance Survey Plan

Published 1993

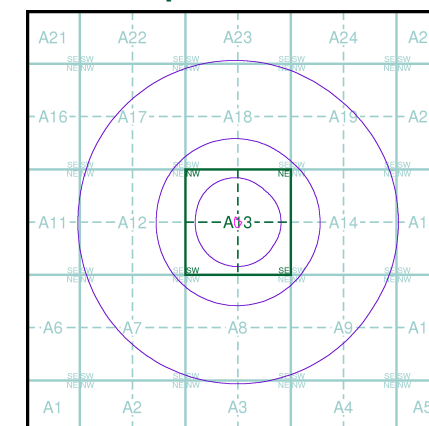
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

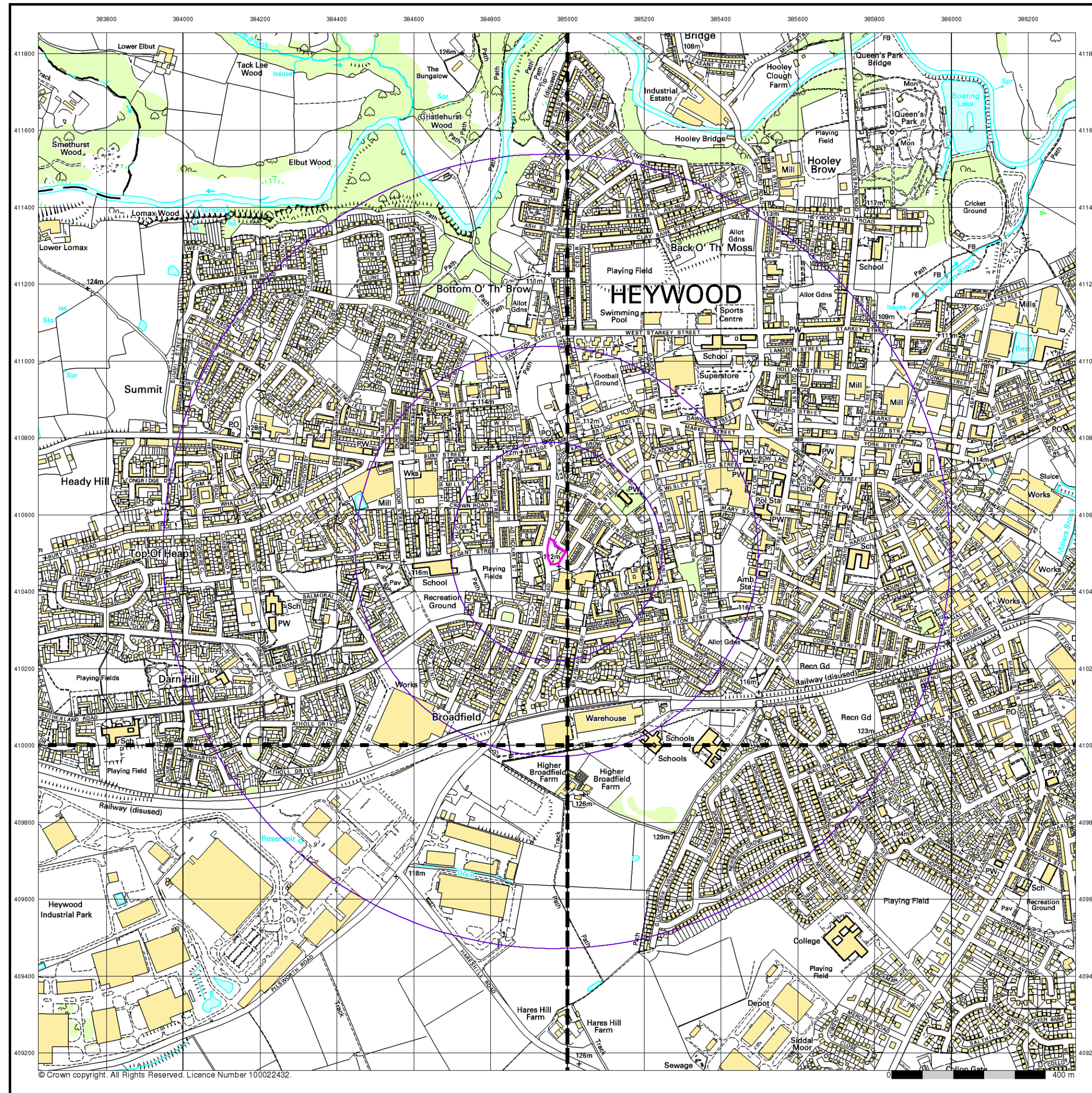


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

23-511 Pilsworth Road, HEYWOOD



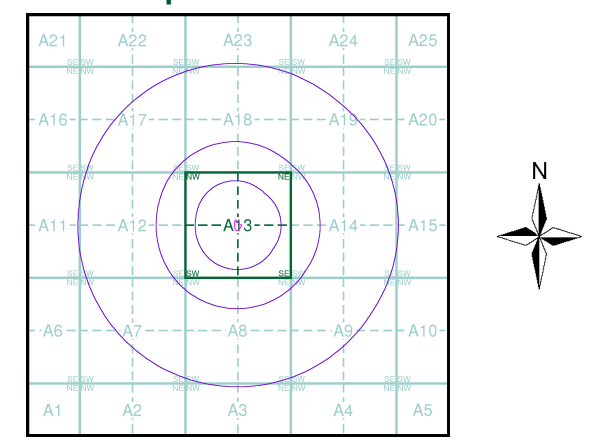
10k Raster Mapping
Published 1999
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

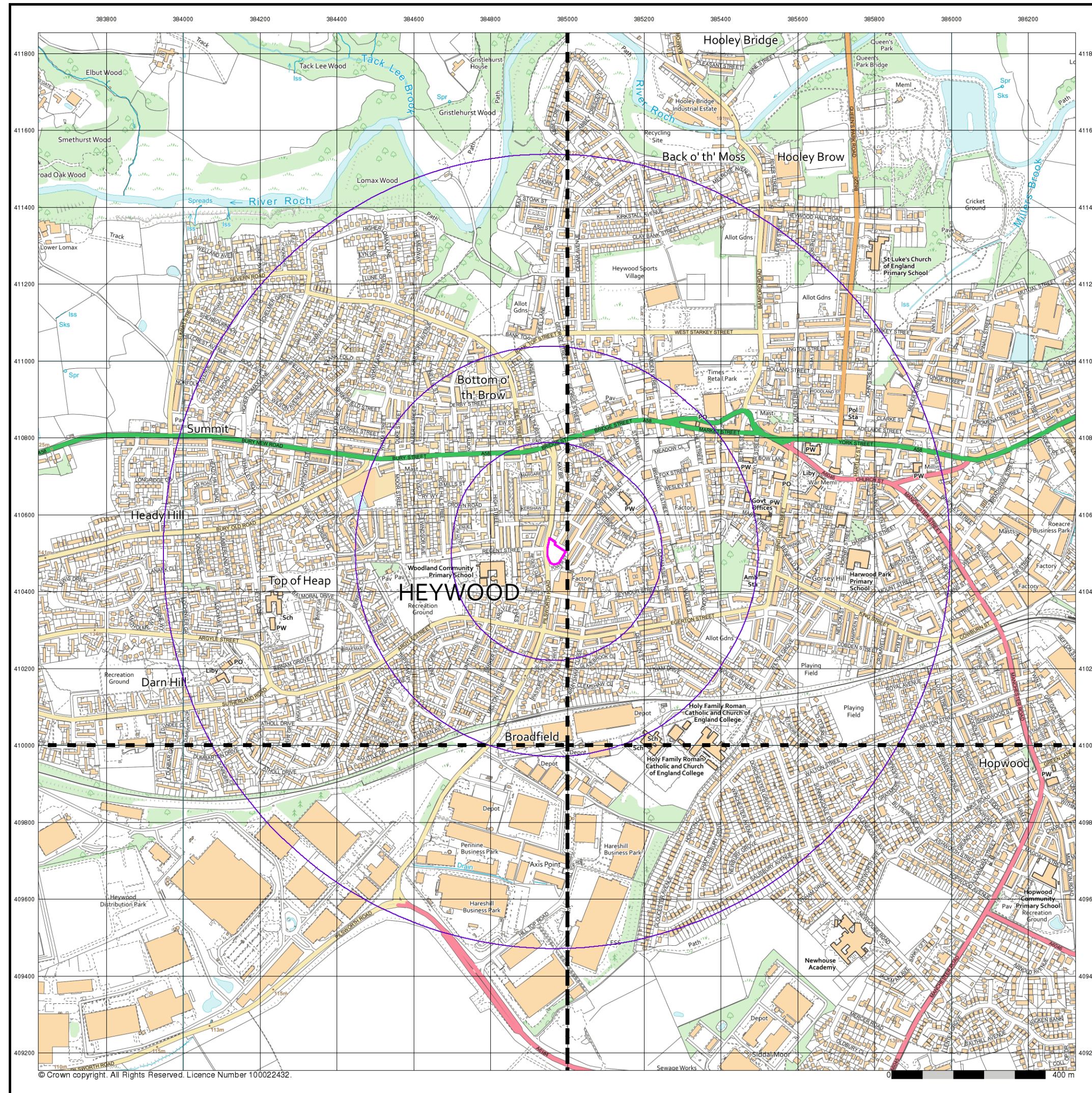
SD81SW	SD81SE
1999	1999
1:10,000	1:10,000
I	
SD80NW	SD80NE
1999	1999
1:10,000	1:10,000

Historical Map - Slice A



Order Details
Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details
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VectorMap Local

Published 2023

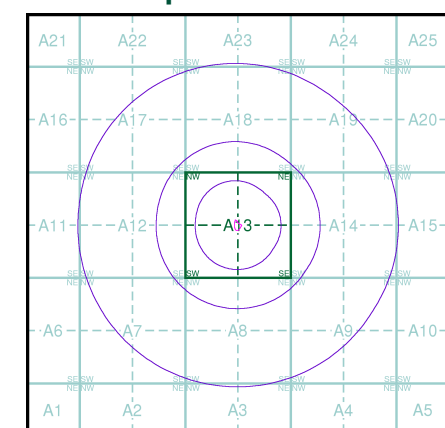
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SD81SW	SD81SE
2023	2023
Variable	Variable
SD80NW	SD80NE
2023	2023
Variable	Variable

Historical Map - Slice A

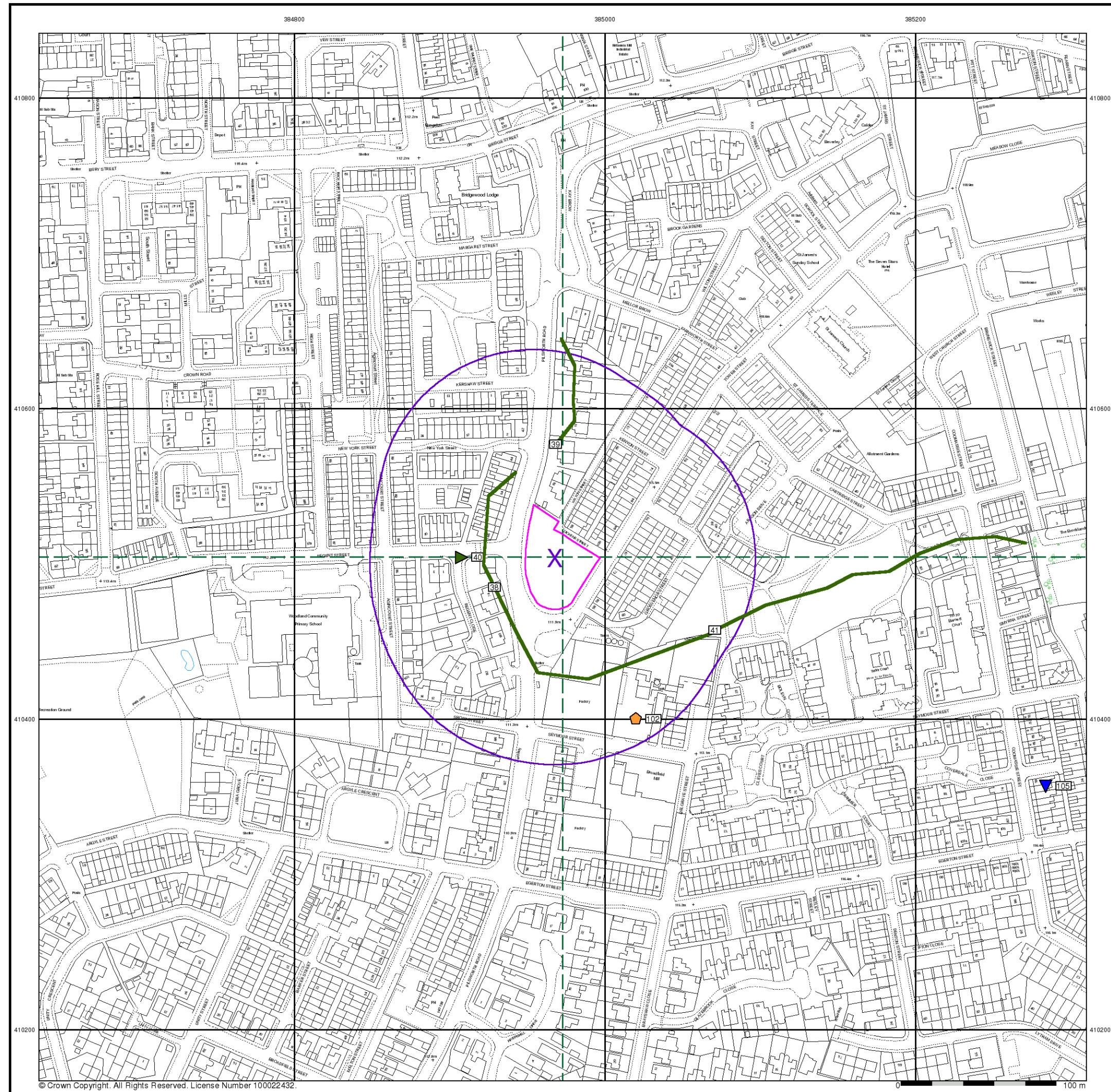


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

23-511 Pilsworth Road, HEYWOOD



- General

Specified Site

Specified Buffer(s)

Bearing Reference Point

Map ID

Several of Types at Location

Pylon

Overhead Transmission Line

Agency and Hydrological

Waste

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

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

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Water)

Potentially Infilled Land (Water)

Potentially Infilled Land (Water)

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

Geological

COMAH Site

Explosive Site

NIHHS Site

Planning Hazardous Substance Consent

Planning Hazardous Substance Enforcement

BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13

A21

A22

A23

A24

A25

A16

A17

A18

A19

A20

A11

A12

A13

A14

A15

A6

A7

A8

A9

A10

A1

A2

A3

A4

A5

N

Order Details

Order Number:	325232792_1_1
Customer Ref:	POR017084
National Grid Reference:	384970, 410500
Slice:	A
Site Area (Ha):	0.2
Plot Buffer (m):	100

Site Details

23-511 Pilsworth Road, HEYWOOD

Landmark

INFORMATION GROUP

Tel:

0844 844 9952

Fax:

0844 844 9951

Web:

www.envirocheck.co.uk

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General

Specified Site

Specified Buffer(s)

Bearing Reference Point

Map ID

Several of Type at Location

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)

Contaminated Land Register Entry or Notice

Discharge Consent

Enforcement or Prohibition Notice

Integrated Pollution Control

Integrated Pollution Prevention Control

Local Authority Integrated Pollution Prevention and Control

Local Authority Pollution Prevention and Control

Local Authority Pollution Prevention and Control Enforcement

Pollution Incident to Controlled Waters

Prosecution Relating to Authorised Processes

Prosecution Relating to Controlled Waters

Registered Radioactive Substance

River Network or Water Feature

River Quality Sampling Point

Substantiated Pollution Incident Register

Water Abstraction

Water Industry Act Referral

Hazardous Substances

COMAH Site

Explosive Site

NIHHS Site

Planning Hazardous Substance Consent

Planning Hazardous Substance Enforcement

BGS Recorded Mineral Site

Waste

BGS Recorded Landfill Site (Location)

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

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Water)

Potentially Infilled Land (Water)

Potentially Infilled Land (Water)

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

Site Sensitivity Map - Slice A

Order Details

Order Number:

325232792_1_1

Customer Ref:

POR017084

National Grid Reference:

384970, 410500

Slice:

A

Site Area (Ha):

0.2

Search Buffer (m):

1000

Site Details

23-511 Pilsworth Road, HEYWOOD

Landmark

INFORMATION GROUP

Tel:

0844 844 9952

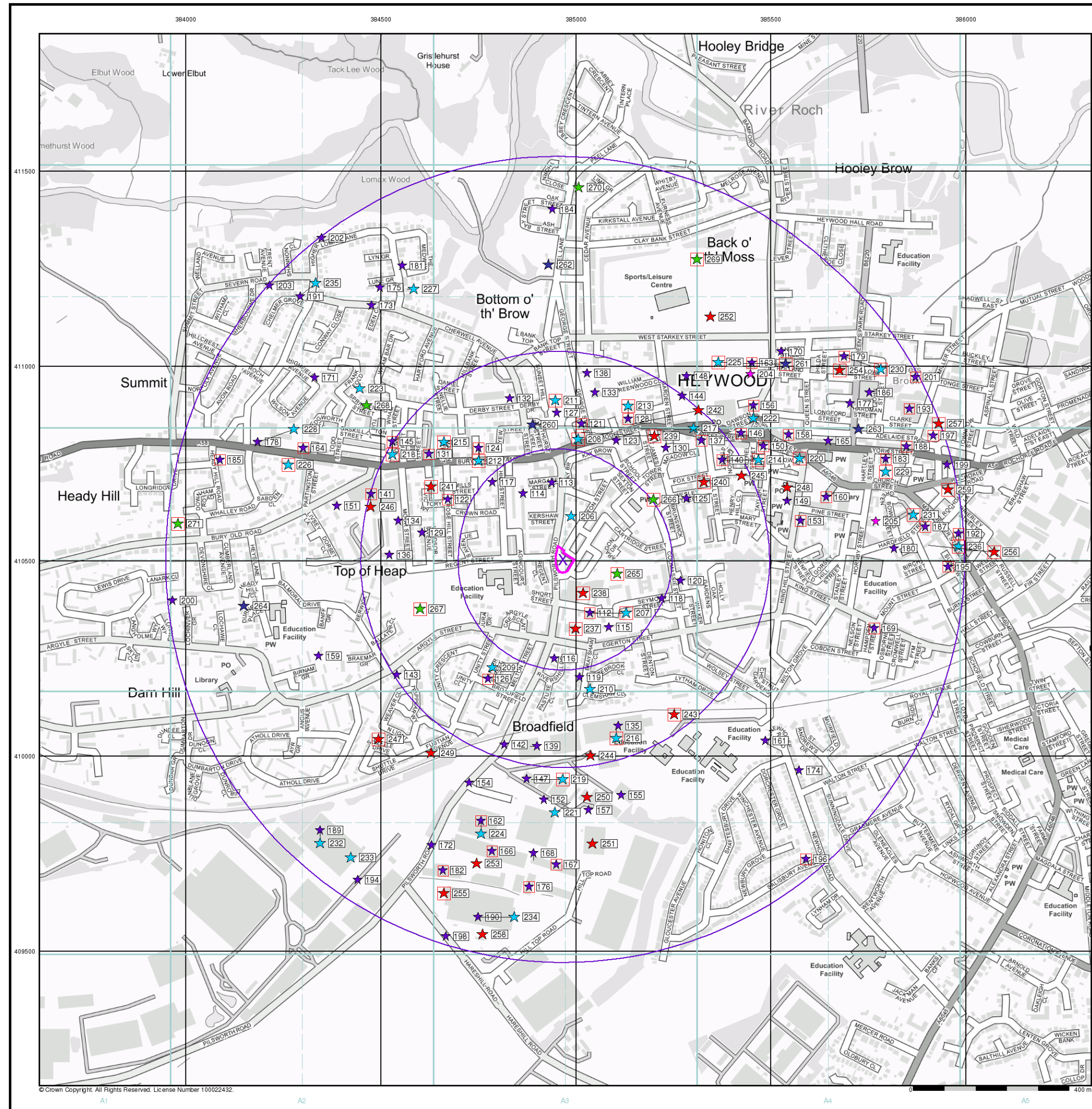
Fax:

0844 844 9951

Web:

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Industrial Land Use Map

- General

Specified Site

Specified Buffer(s)

Bearing Reference Point

Slice

Map ID

Industrial Land Use

Contemporary Trade Directory Entry

Fuel Station Entry

Gas Pipeline

Points of Interest - Commercial Services

Points of Interest - Education and Health

Points of Interest - Manufacturing and Production

Points of Interest - Public Infrastructure

Points of Interest - Recreational and Environmental

Underground Electrical Cables
- ### Industrial Land Use Map - Slice A
-
- Order Details

Order Number:

325232792_1_1

Customer Ref:

POR017084

National Grid Reference:

384970, 410500

Slice:

A

Site Area (Ha):

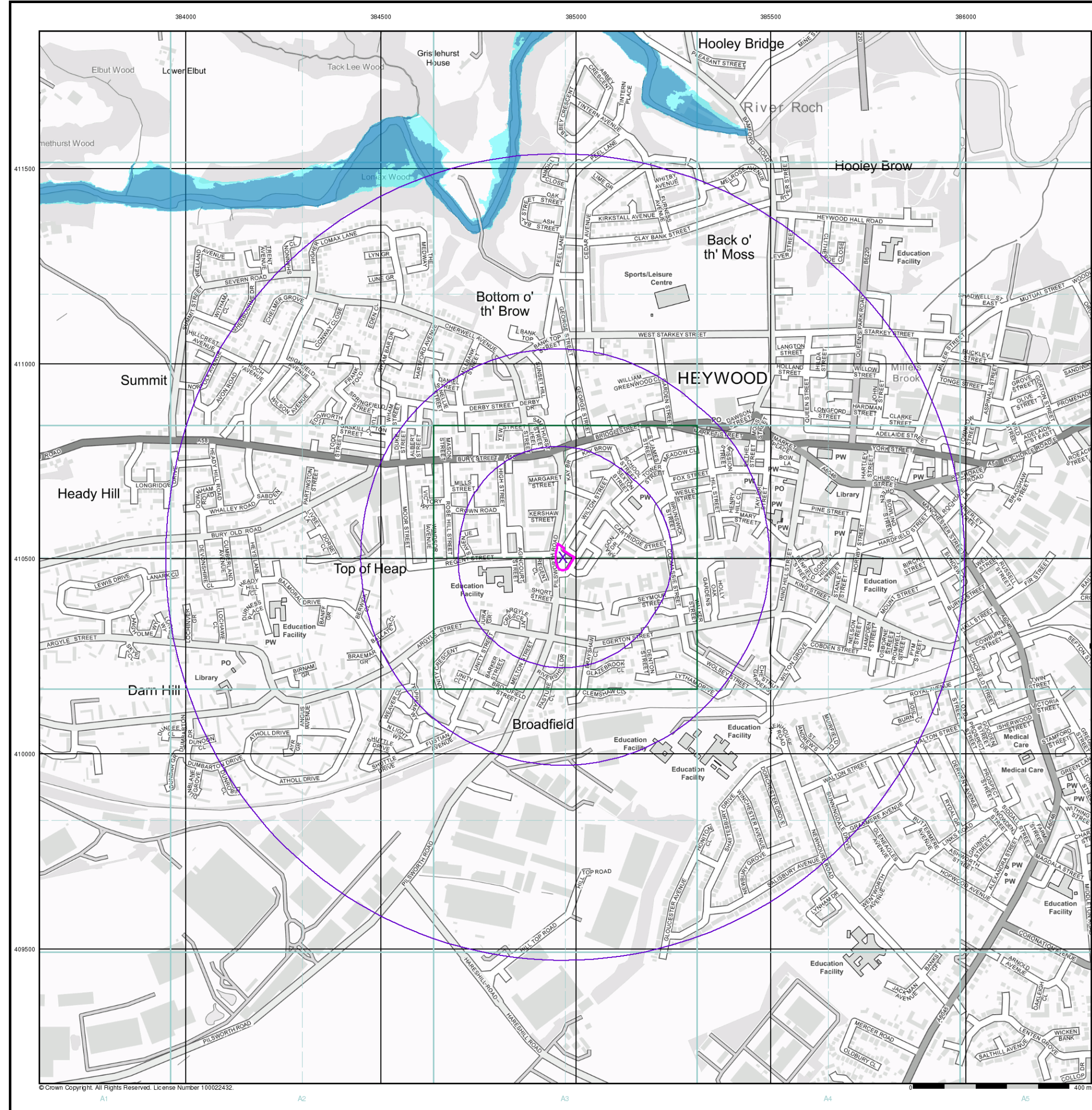
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Search Buffer (m):

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Site Details

23-511 Pilsworth Road, HEYWOOD



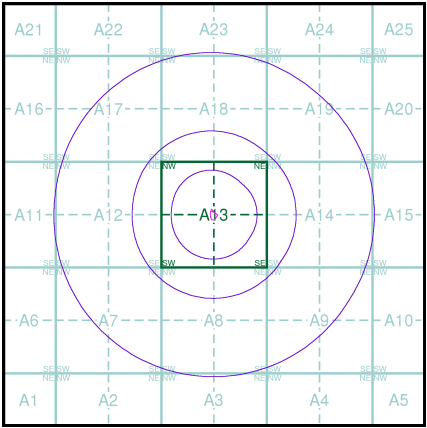
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A

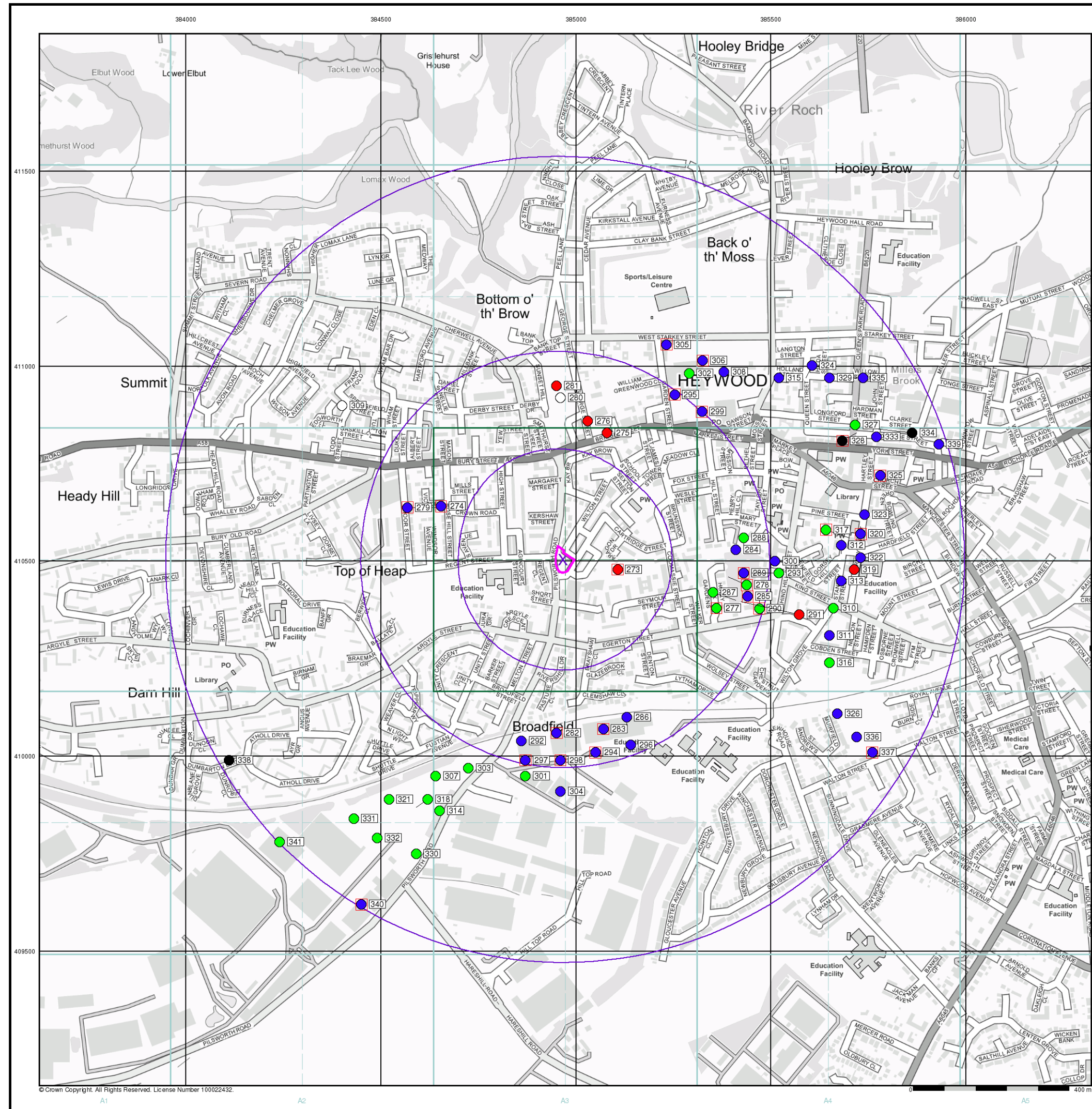


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

23-511 Pilsworth Road, HEYWOOD



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General

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

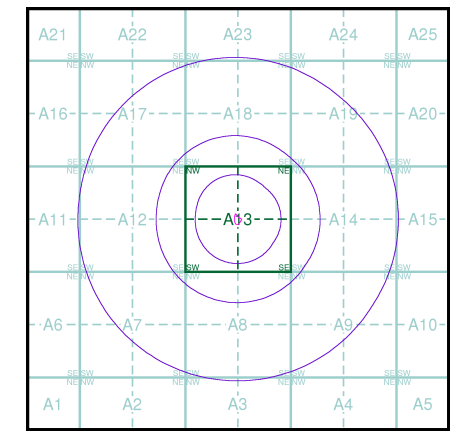
Agency and Hydrological (Boreholes)

- 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

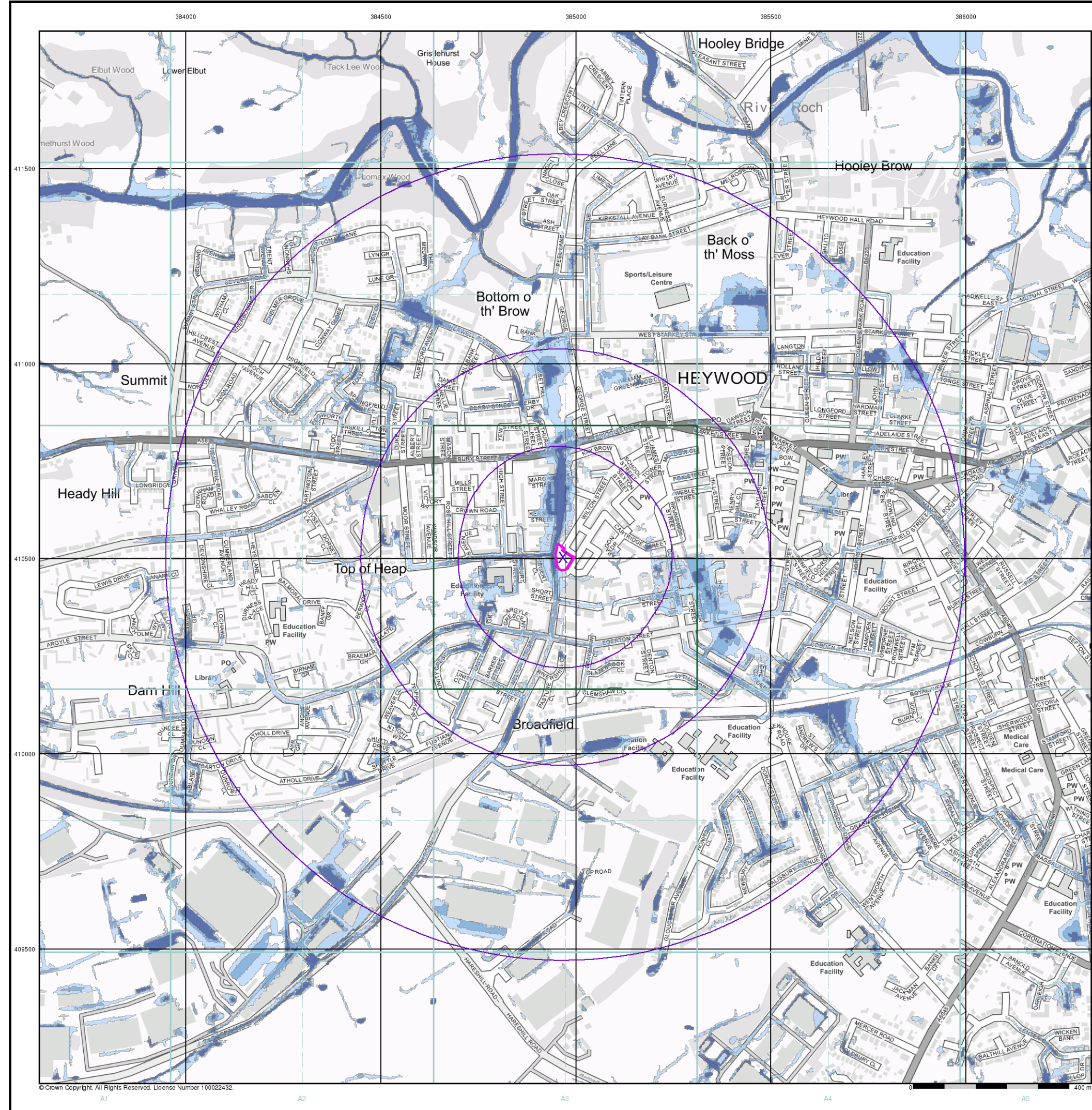


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

23-511 Pilsworth Road, HEYWOOD



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Risk of Flooding from Surface Water

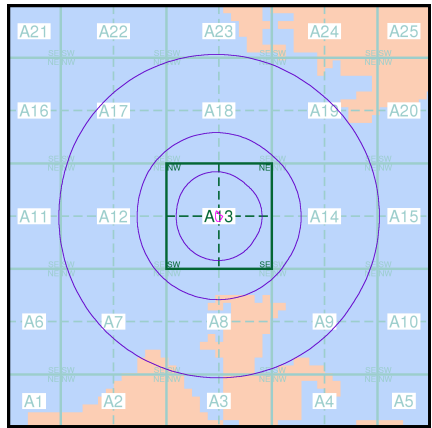
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

E/NRW Suitability Map - Slice A

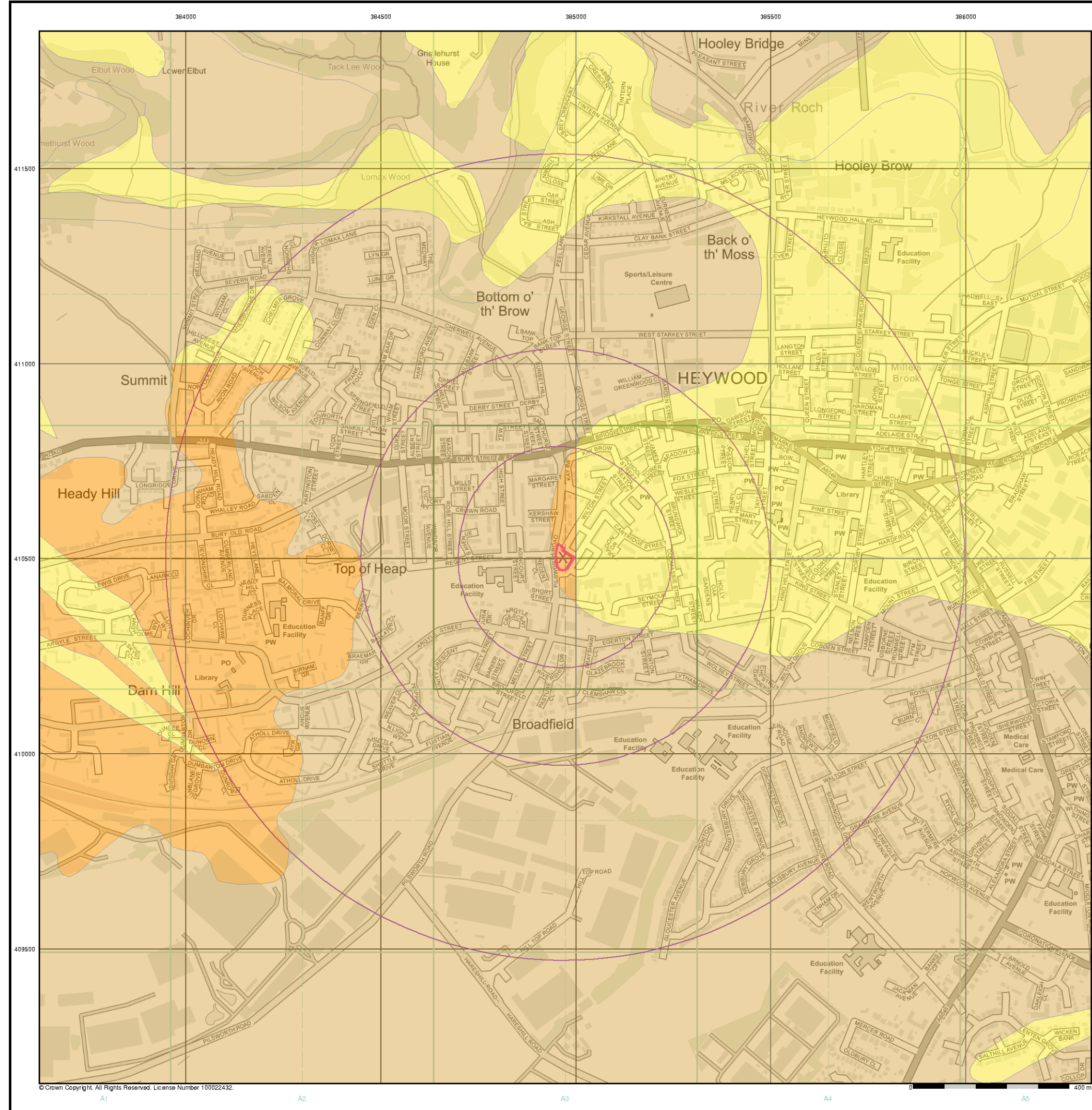


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

23-511 Pilsworth Road, HEYWOOD



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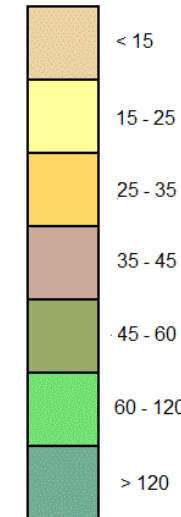
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General

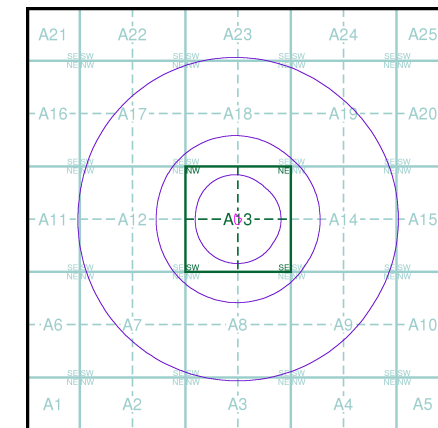
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

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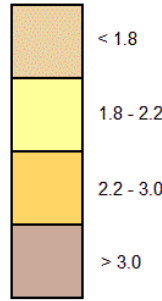
Tel: 0844 844 9952
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General

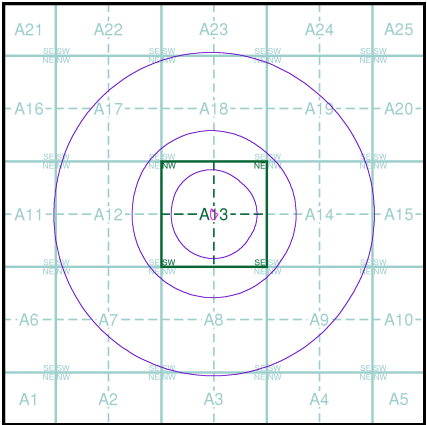
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details:325232792_1_1

Customer Ref:POR017084

National Grid Reference:384970, 410500

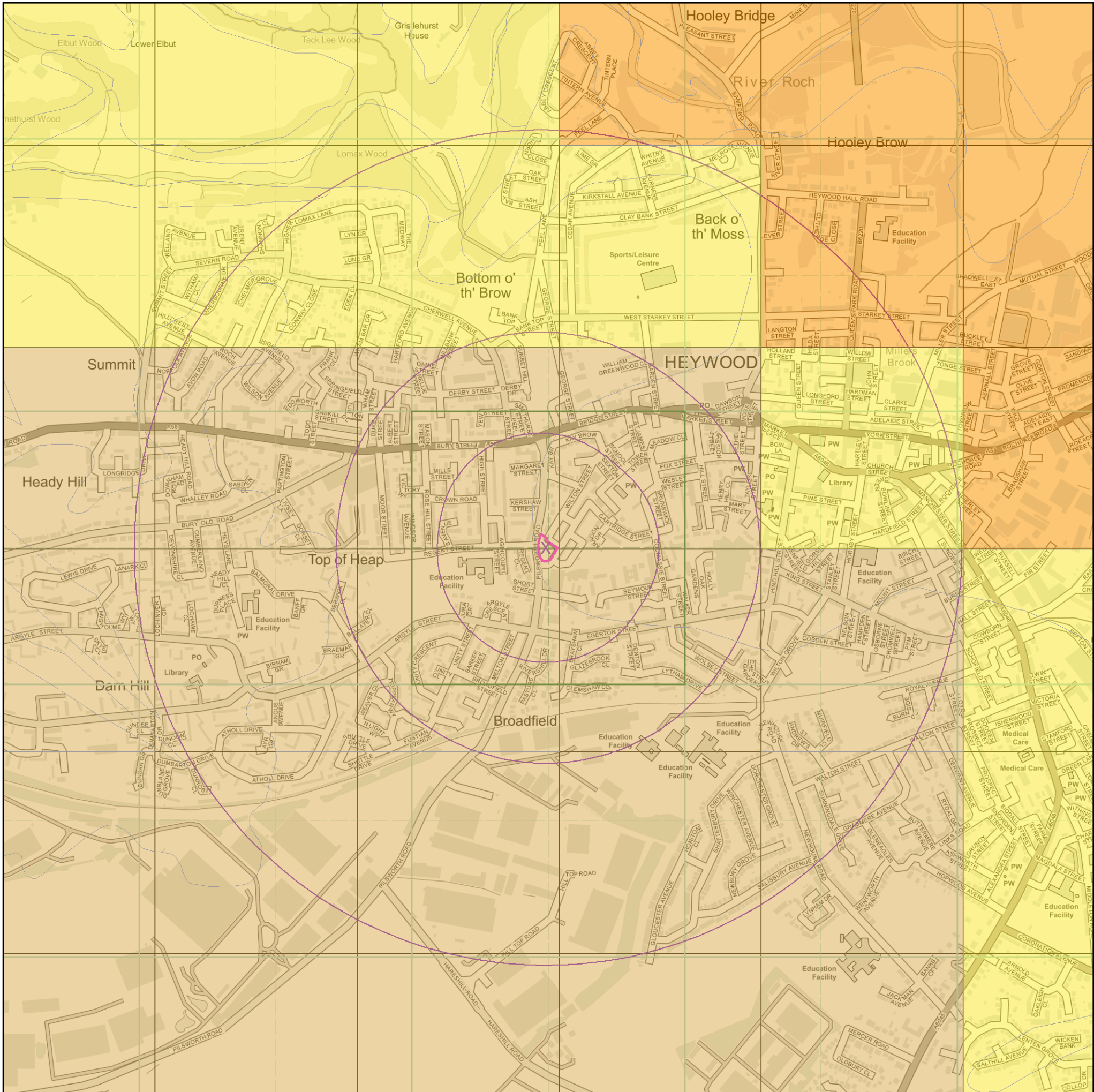
Slice:A

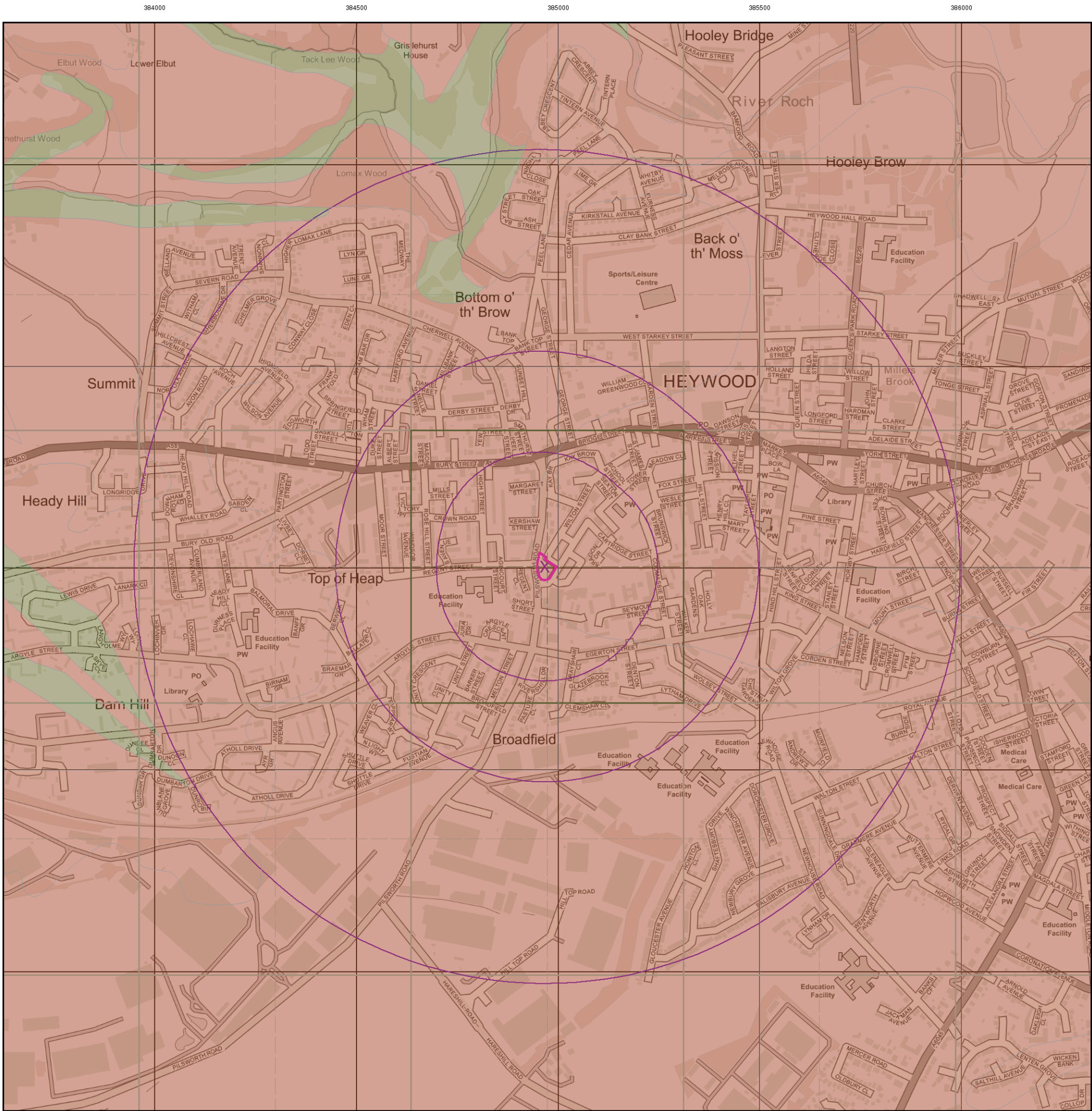
Site Area (Ha):0.2

Search Buffer (m):1000

Site Details

23-511 Pilsworth Road, HEYWOOD





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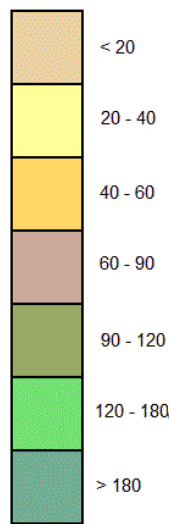
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General

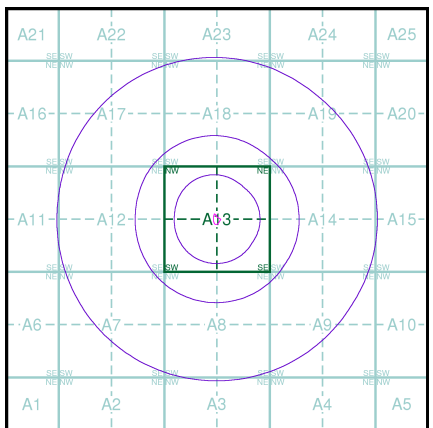
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

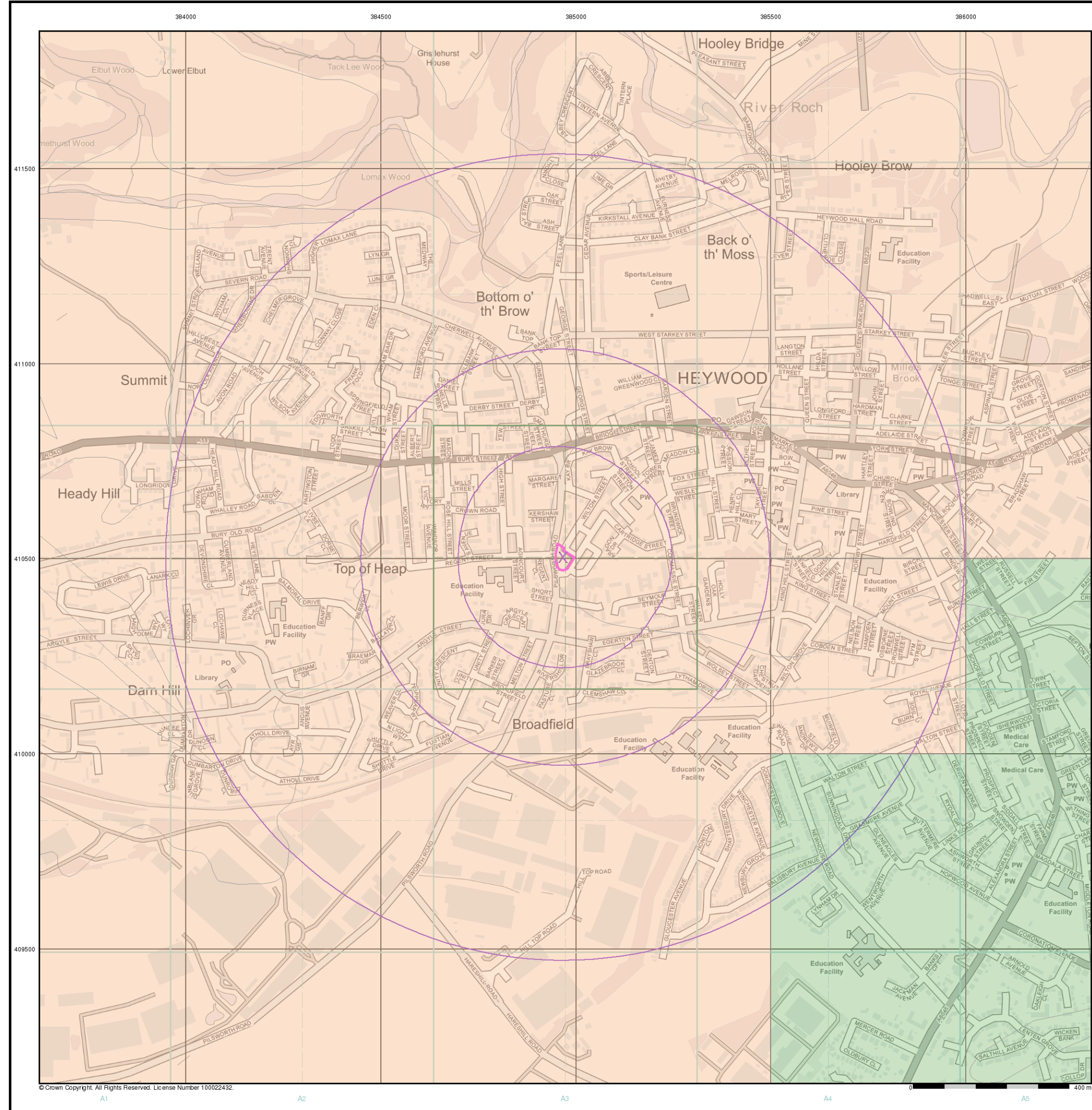
Order Details: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

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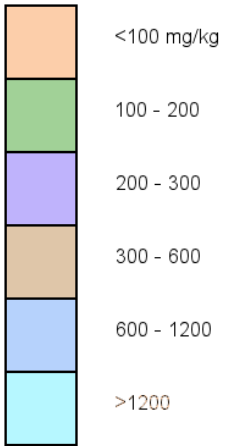


General

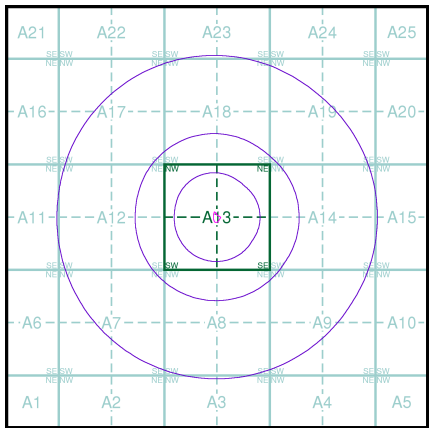
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

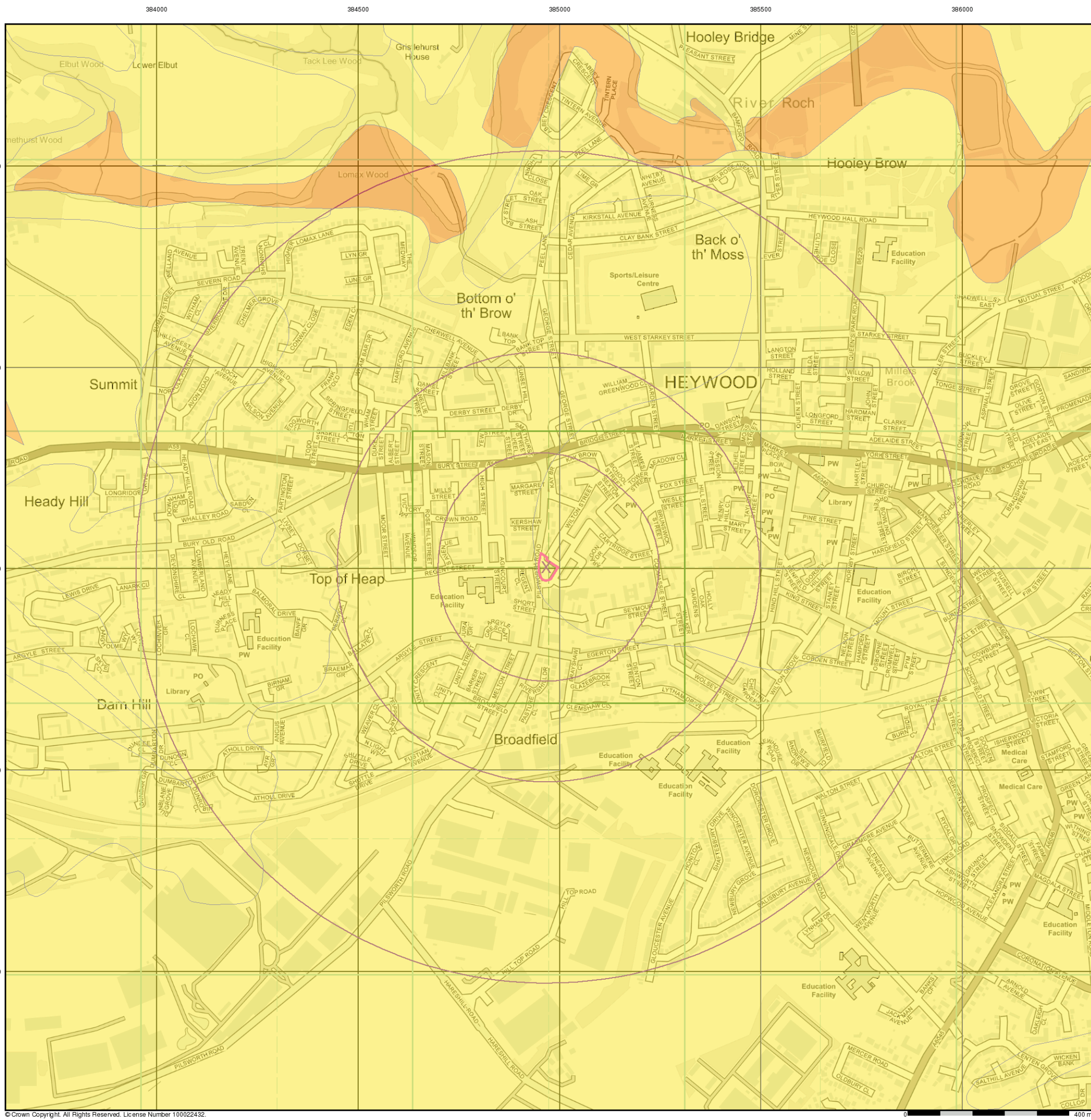


Order Details

Order Details: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

23-511 Pilsworth Road, HEYWOOD



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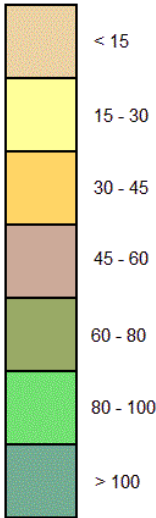
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General

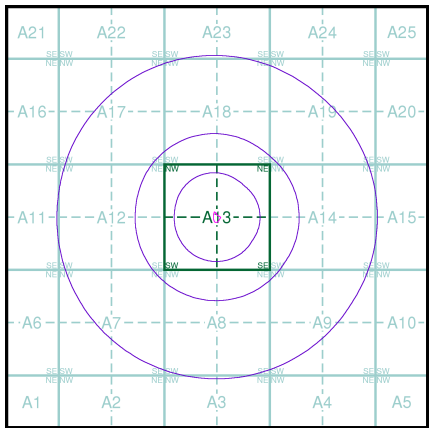
- Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

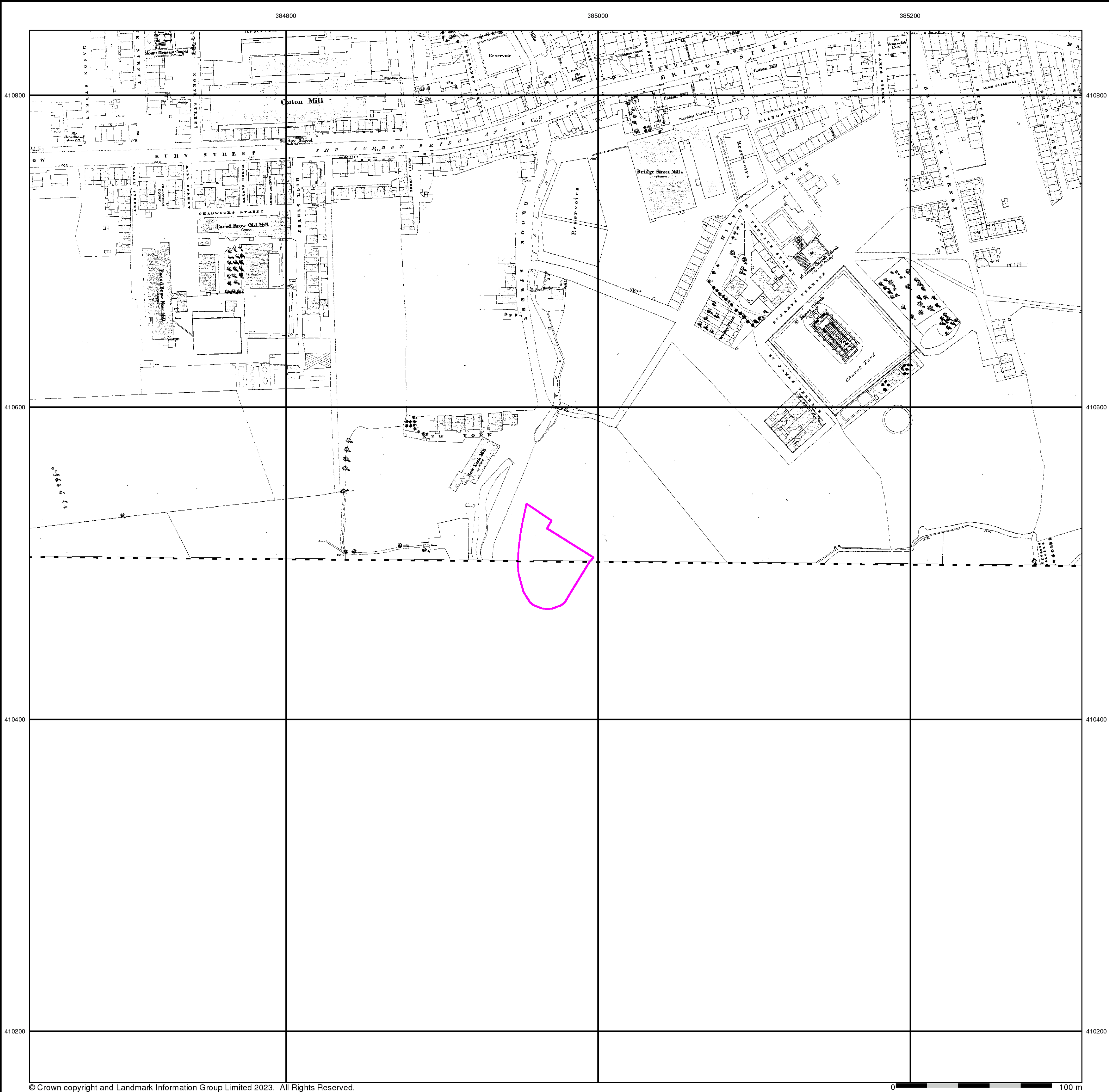
Order Details: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 1000

Site Details

23-511 Pilsworth Road, HEYWOOD

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Lancashire And Furness

Published 1851

Source map scale - 1:1,056

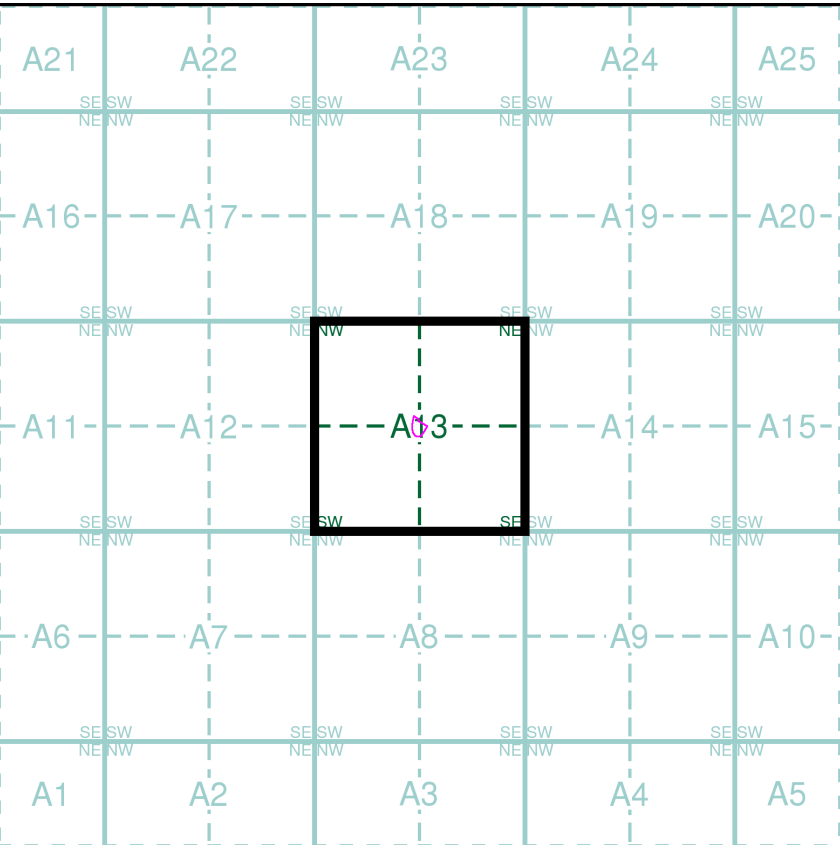
The 1:1056 scale of Ordnance Survey mapping was adopted from Ireland in 1848 and was used to survey towns with a population of over 4000, plus county towns of lesser population, in those counties mapped at the six-inch scale in 1841-55. The scale was the largest scale at which London was mapped by the Ordnance Survey and a 'skeleton' survey of the capital, showing little more than streets, street names, frontages and altitudes, was undertaken between 1848 and 1850. The majority of the 1:1056 surveys were later replaced by 1:500 surveys; although almost all the remainder were revised at this scale, sometimes more than once before 1895. The type of detail shown on the 1:1056 scale is broadly similar to that on 1:500; the apparent omission of minor details such as sewer access points and street lights may be as much a reflection of the generally earlier date of these plans, as of the specification of the map.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)

000_00_001
1851
1:1,056
000_00_201
1851
1:1,056

Historical Town Plan - Segment A13



Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 0

Site Details

23-511 Pilsworth Road, HEYWOOD

Lancashire And Furness

Published 1891

Source map scale - 1:500

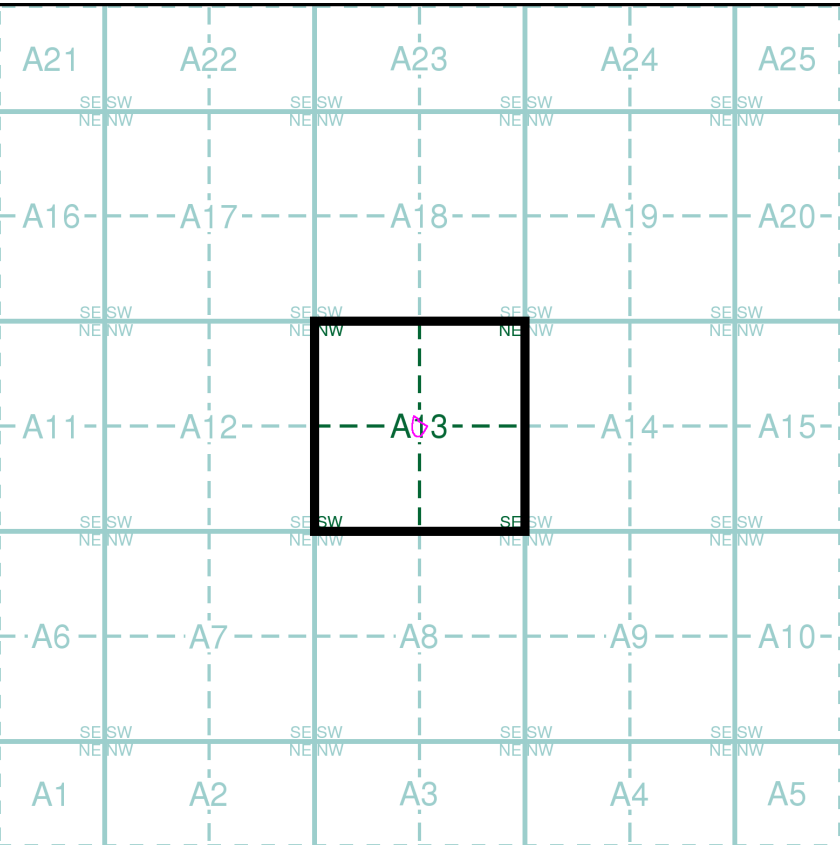
The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to complement the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped more than once at this scale, and none have been since 1910. The 1:500 scale gives particular emphasis to such features as lamp posts, man holes, arched passages and minor building projections. Also often featured are divisions between tenements, interior ground floor layouts of public buildings, and on earlier plans, the functions of the various parts of larger industrial premises are also indicated. Content of the plans does vary however, from one town to the next in terms of, for example, the completeness of railway tracks and the coverage of public buildings.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)

088_11_001	088_11_002
1891	1891
1:500	1:500
088_11_006	088_11_007
1891	1891
1:500	1:500
088_11_011	088_11_012
1891	1891
1:500	1:500

Historical Town Plan - Segment A13



Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 0

Site Details

23-511 Pilsworth Road, HEYWOOD

Historical Mapping Legends

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



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



Large-Scale National Grid Data 1:2,500 and 1:1,250



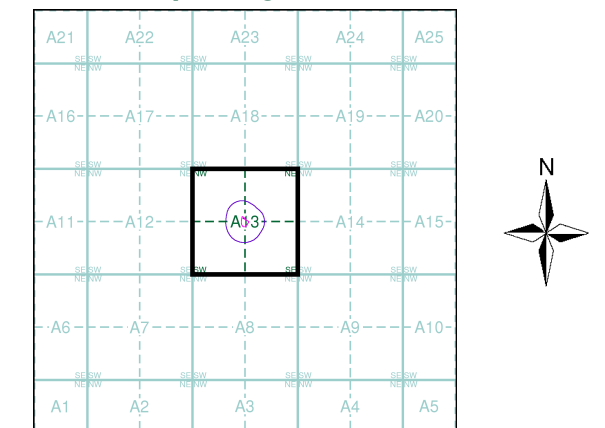
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1910	3
Lancashire And Furness	1:2,500	1929	4
Lancashire And Furness	1:2,500	1937	5
Ordnance Survey Plan	1:1,250	1956	6
Ordnance Survey Plan	1:2,500	1957	7
Ordnance Survey Plan	1:1,250	1964 - 1971	8
Additional SIMs	1:1,250	1967 - 1984	9
Ordnance Survey Plan	1:2,500	1969	10
Ordnance Survey Plan	1:1,250	1973 - 1991	11
Additional SIMs	1:1,250	1985 - 1990	12
Additional SIMs	1:1,250	1988 - 1990	13
Ordnance Survey Plan	1:1,250	1989	14
Large-Scale National Grid Data	1:1,250	1992	15
Large-Scale National Grid Data	1:1,250	1994 - 1995	16
Large-Scale National Grid Data	1:1,250	1996	17
Historical Aerial Photography	1:2,500	2000	18

Historical Map - Segment A13



Order Details

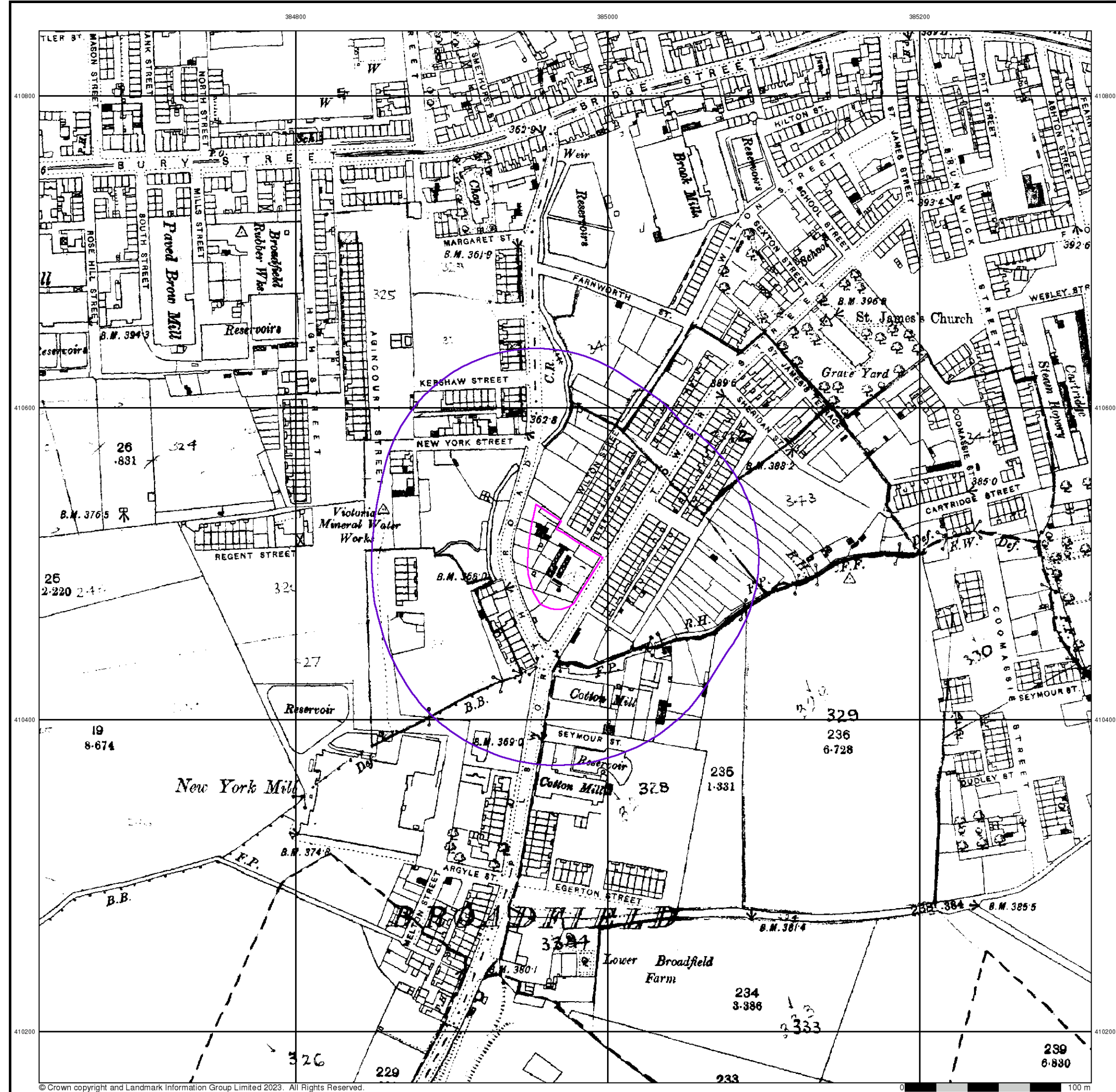
Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 100

Site Details

23-511 Pilsworth Road, HEYWOOD

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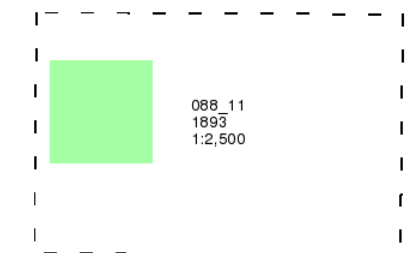
Lancashire And Furness

Published 1893

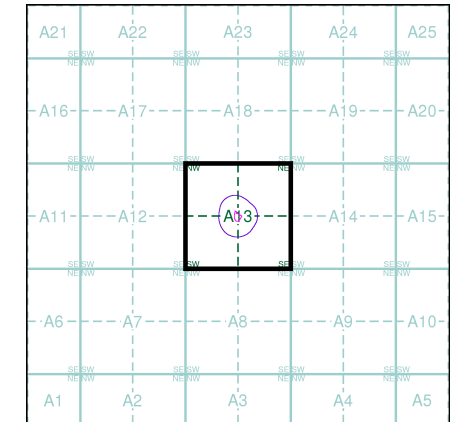
Source map scale - 1:2,500

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 A13



Order Details

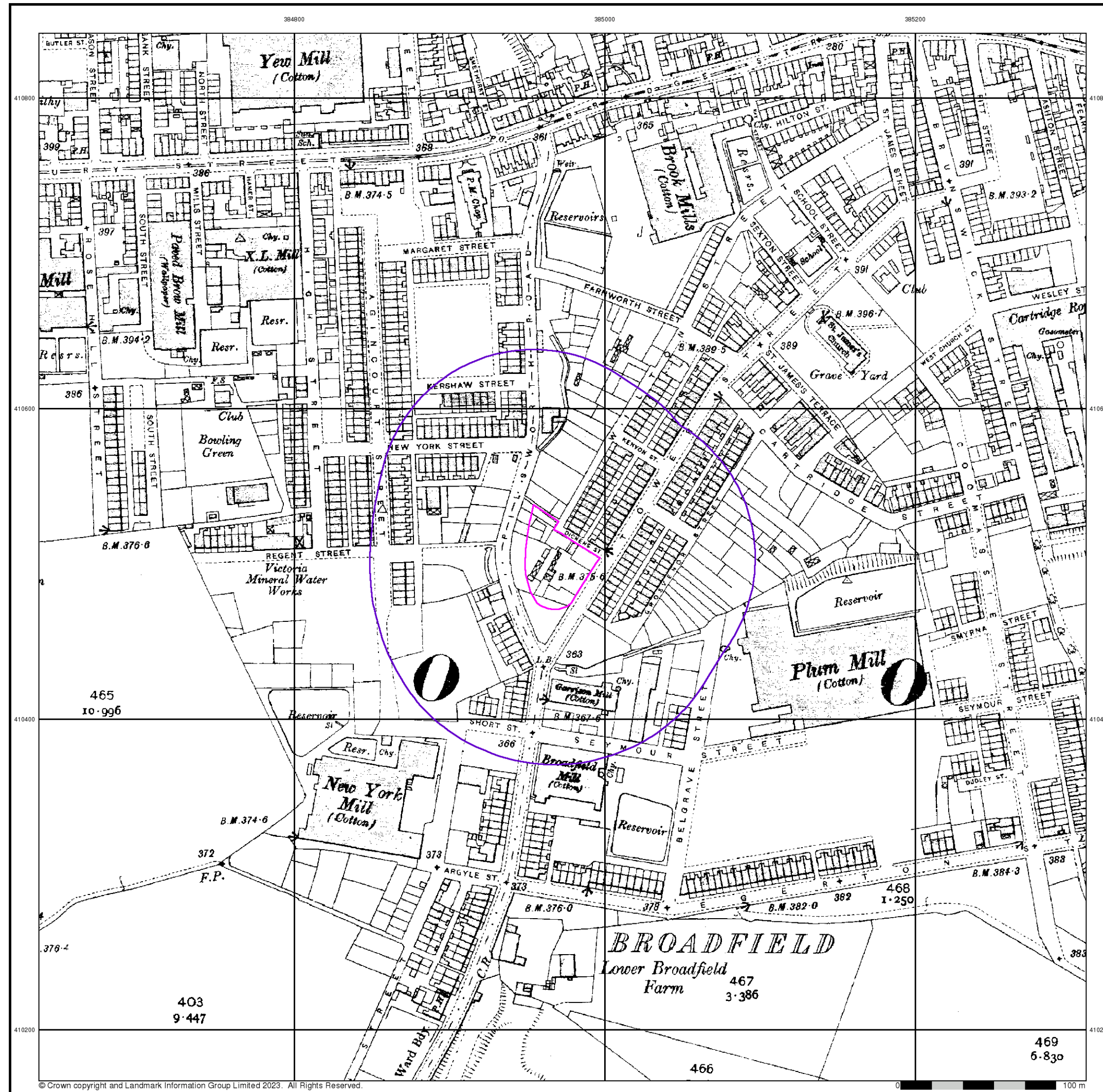
Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 100

Site Details

23-511 Pilsworth Road, HEYWOOD

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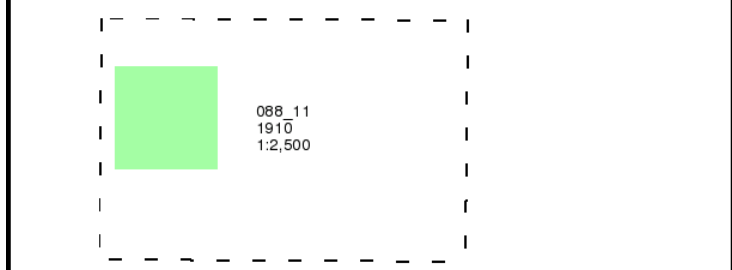
Lancashire And Furness

Published 1910

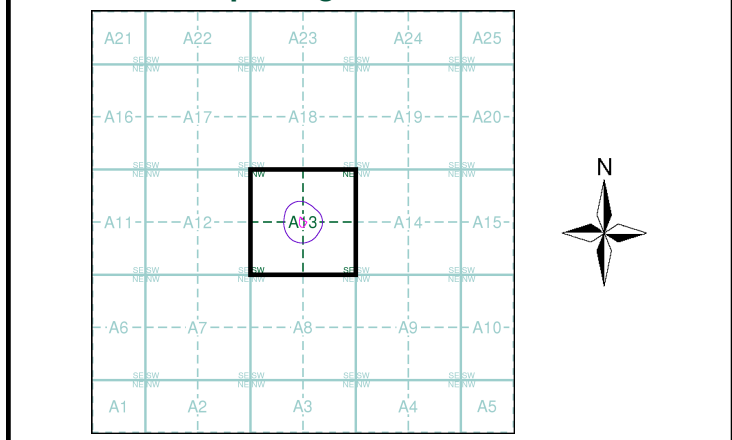
Source map scale - 1:2,500

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 A13



Order Details

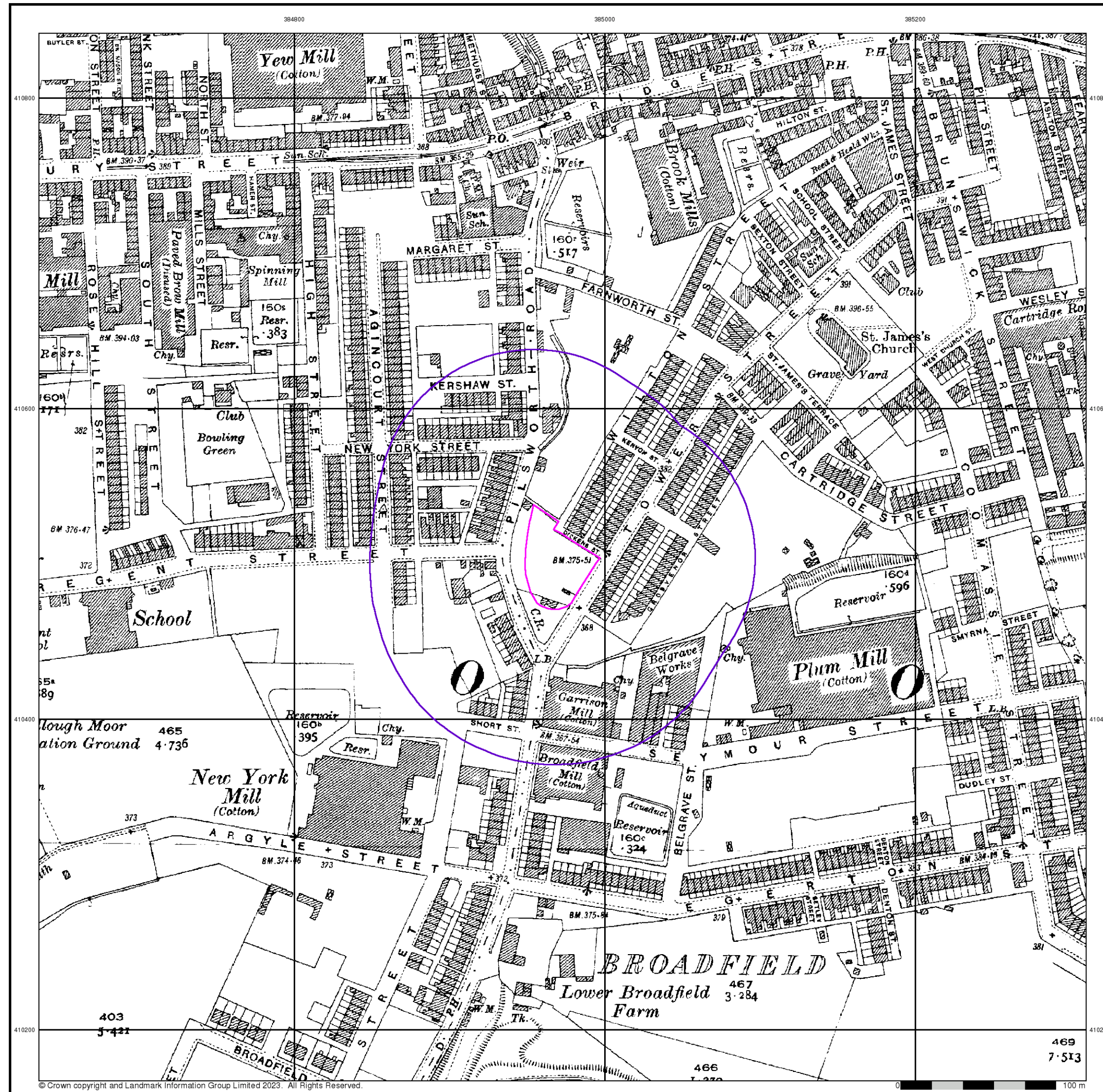
Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 100

Site Details

23-511 Pilsworth Road, HEYWOOD

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Web: www.envirocheck.co.uk

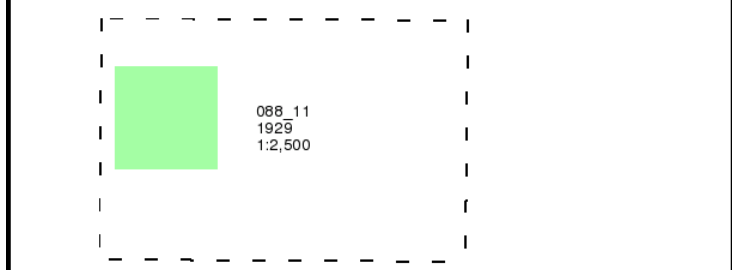


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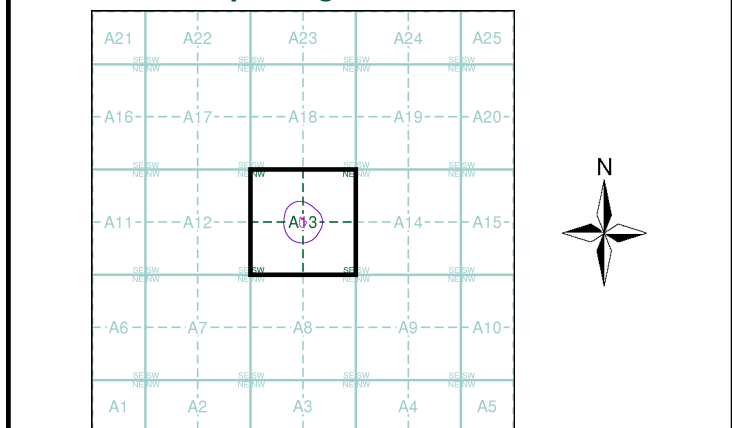
Lancashire And Furness
Published 1929
Source map scale - 1:2,500

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)



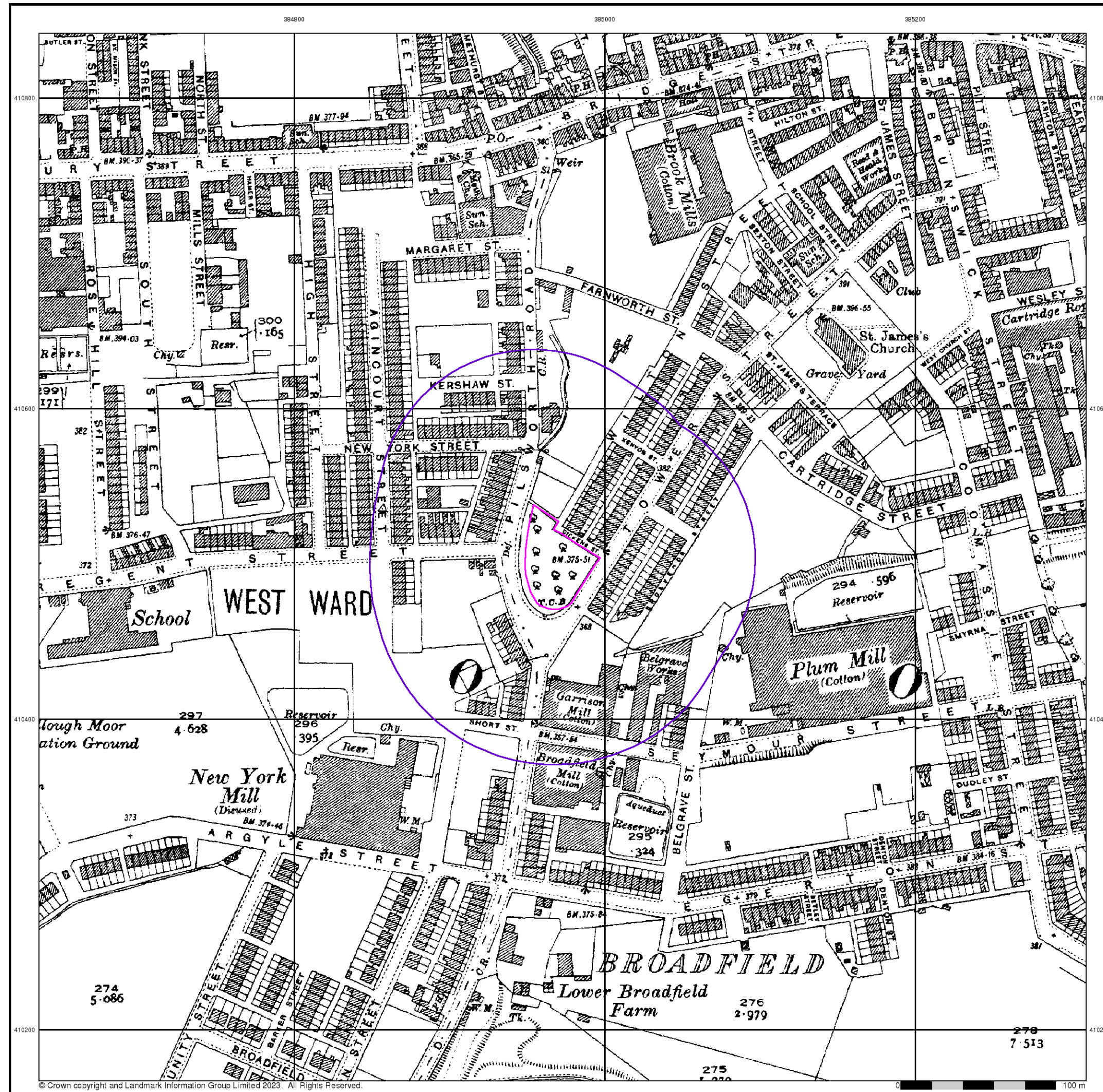
Historical Map - Segment A13



Order Details

Order Number:	325232792_1_1
Customer Ref:	POR017084
National Grid Reference:	384970, 410500
Slice:	A
Site Area (Ha):	0.2
Search Buffer (m):	100

Site Details
23-511 Pilsworth Road, HEYWOOD



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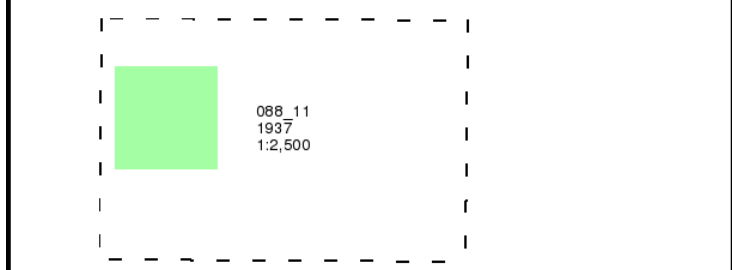
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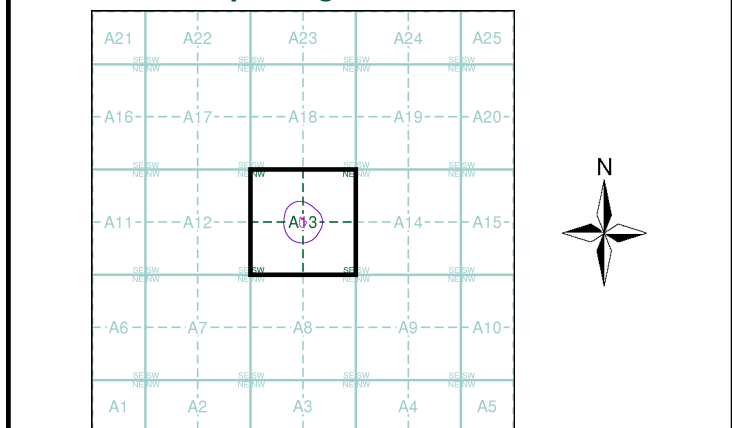
Lancashire And Furness
Published 1937
Source map scale - 1:2,500

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)



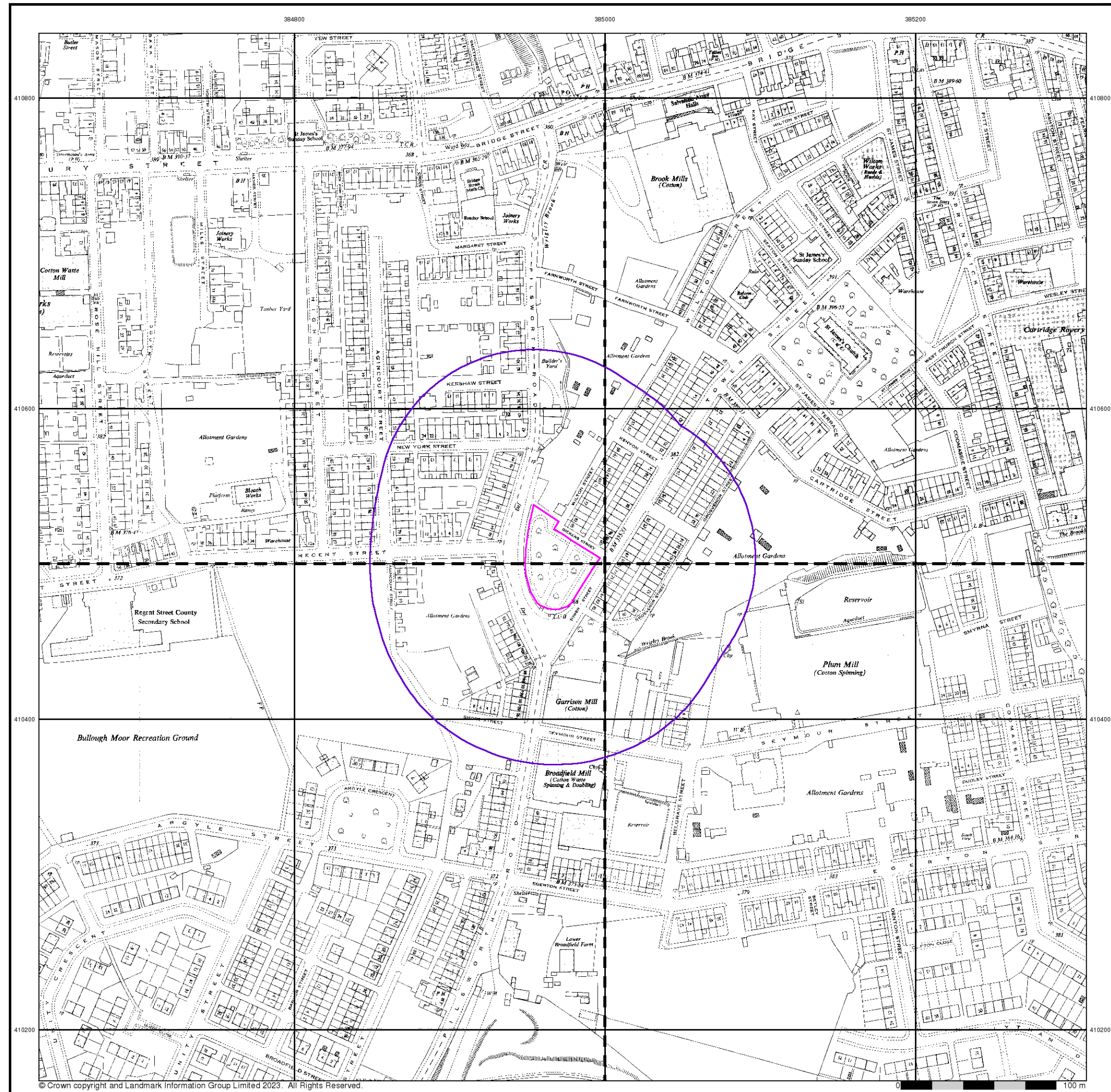
Historical Map - Segment A13



Order Details
Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 100

Site Details
23-511 Pilsworth Road, HEYWOOD

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



Ordnance Survey Plan

Published 1956

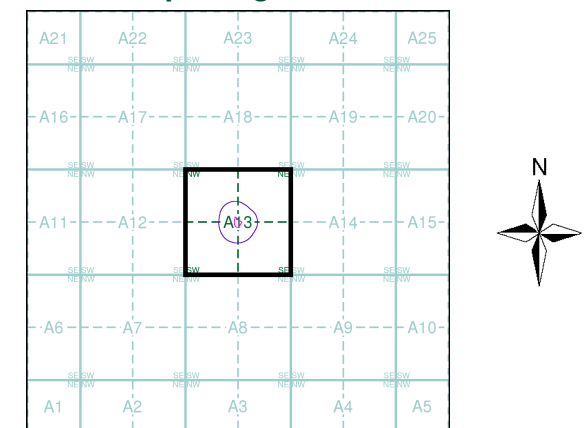
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SD8410NE	SD8510NW
1956	1956
1:1,250	1:1,250
SD8410SE	SD8510SW
1956	1956
1:1,250	1:1,250

Historical Map - Segment A13

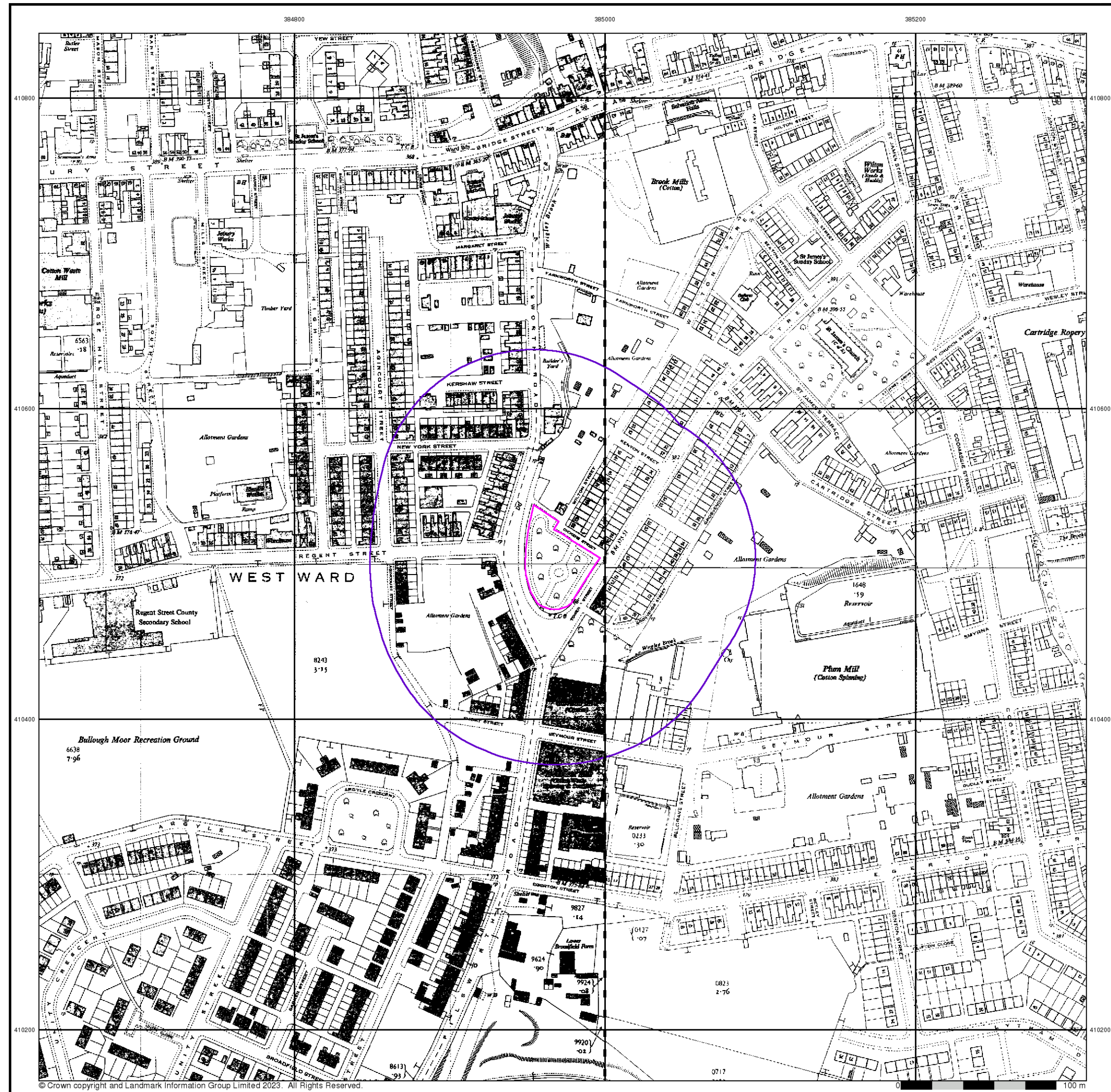


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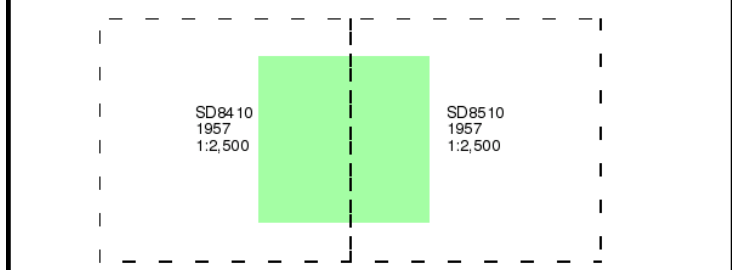
23-511 Pilsworth Road, HEYWOOD



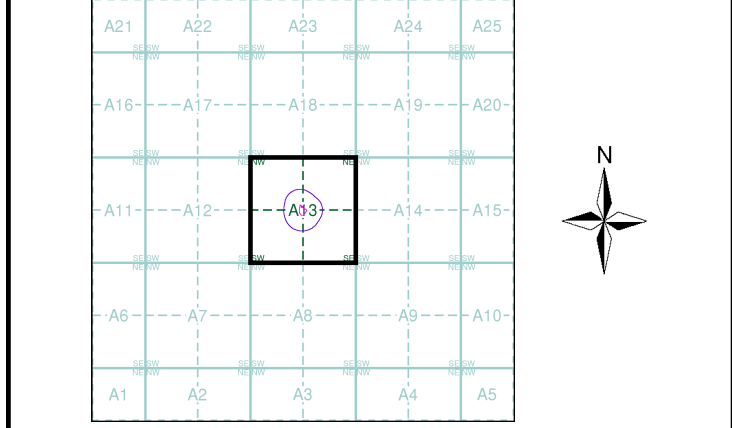
Ordnance Survey Plan
Published 1957
Source map scale - 1:2,500

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)

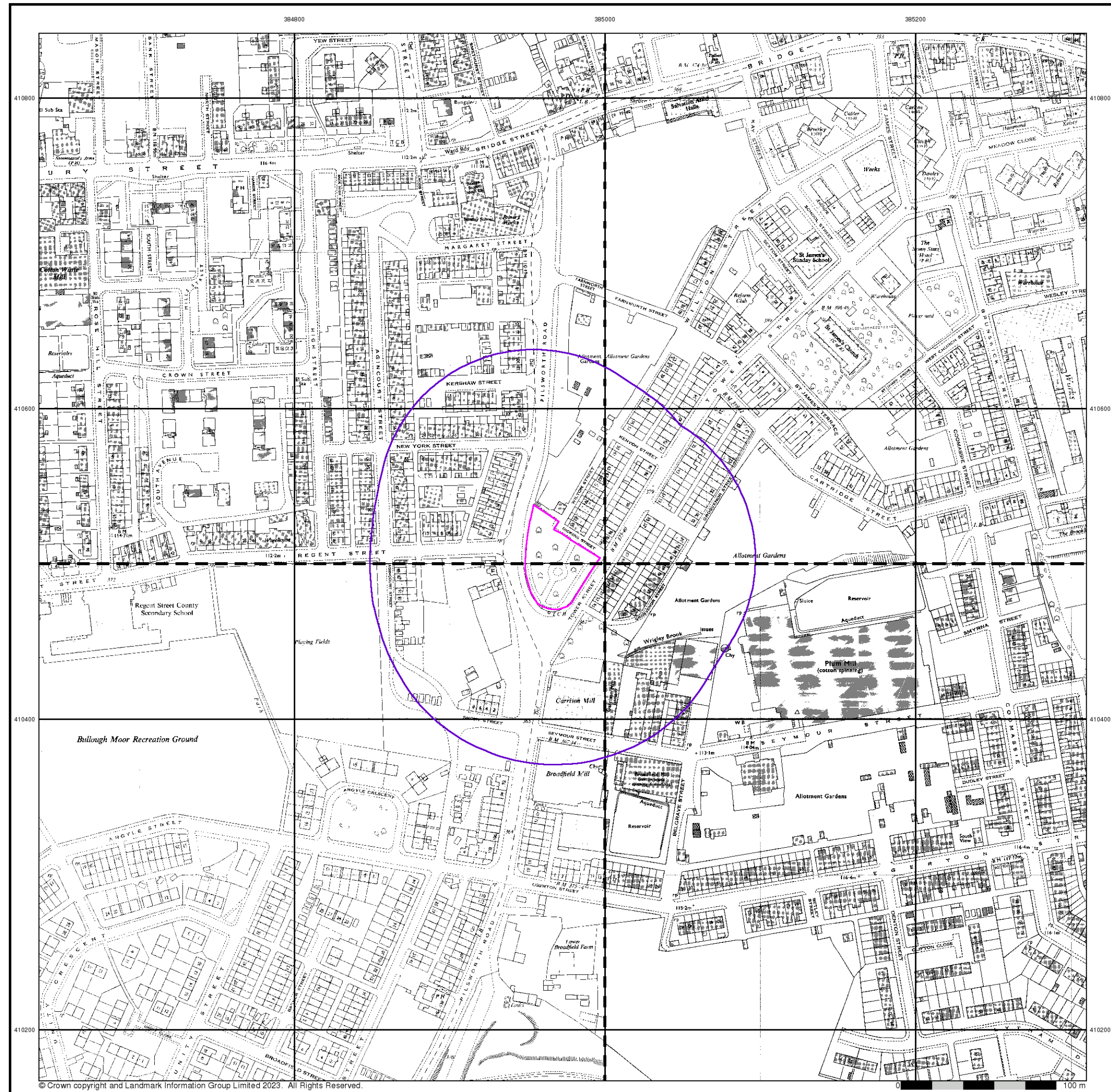


Historical Map - Segment A13



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Site Details
23-511 Pilsworth Road, HEYWOOD



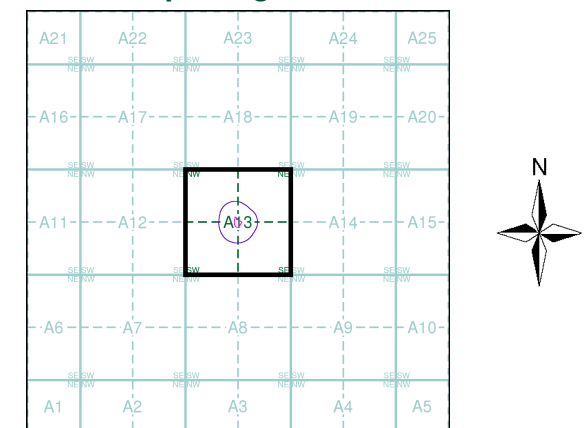
Ordnance Survey Plan
Published 1964 - 1971
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

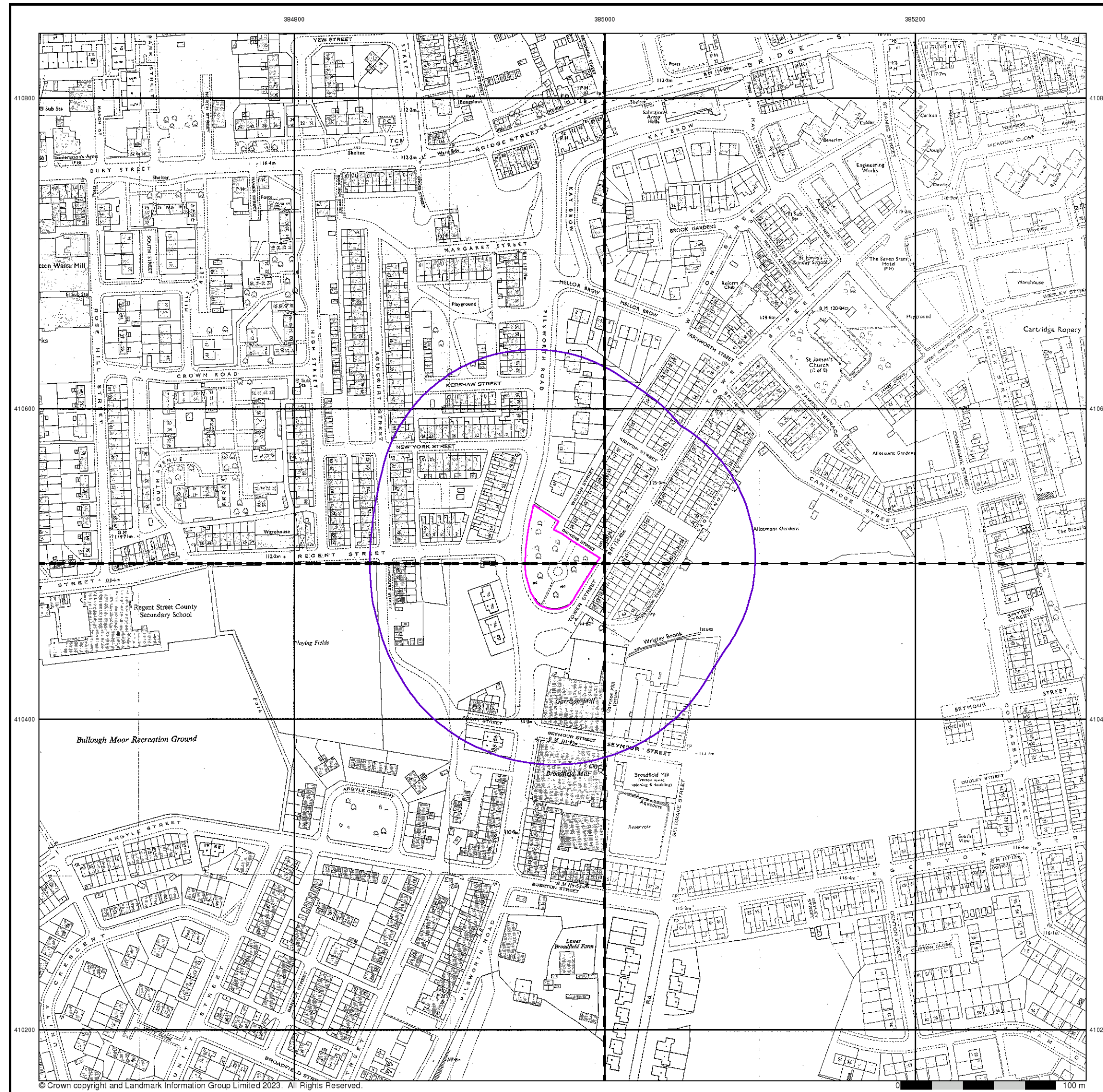
SD8410NE 1970 1:1,250	SD8510NW 1964 1:1,250
SD8410SE 1968 1:1,250	SD8510SW 1971 1:1,250

Historical Map - Segment A13



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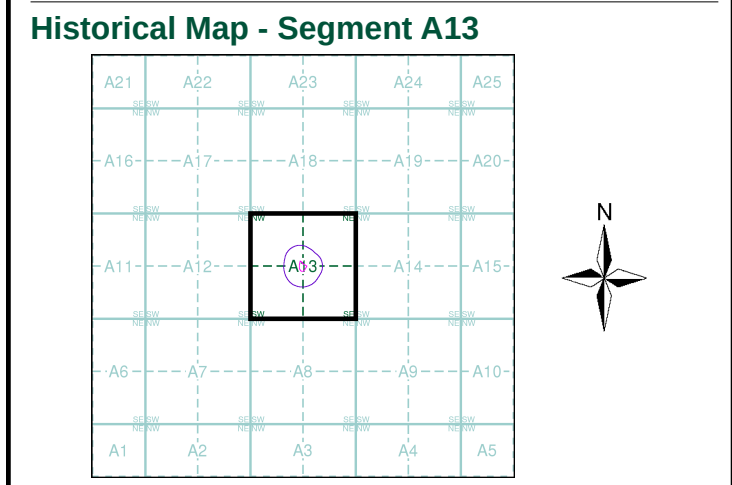
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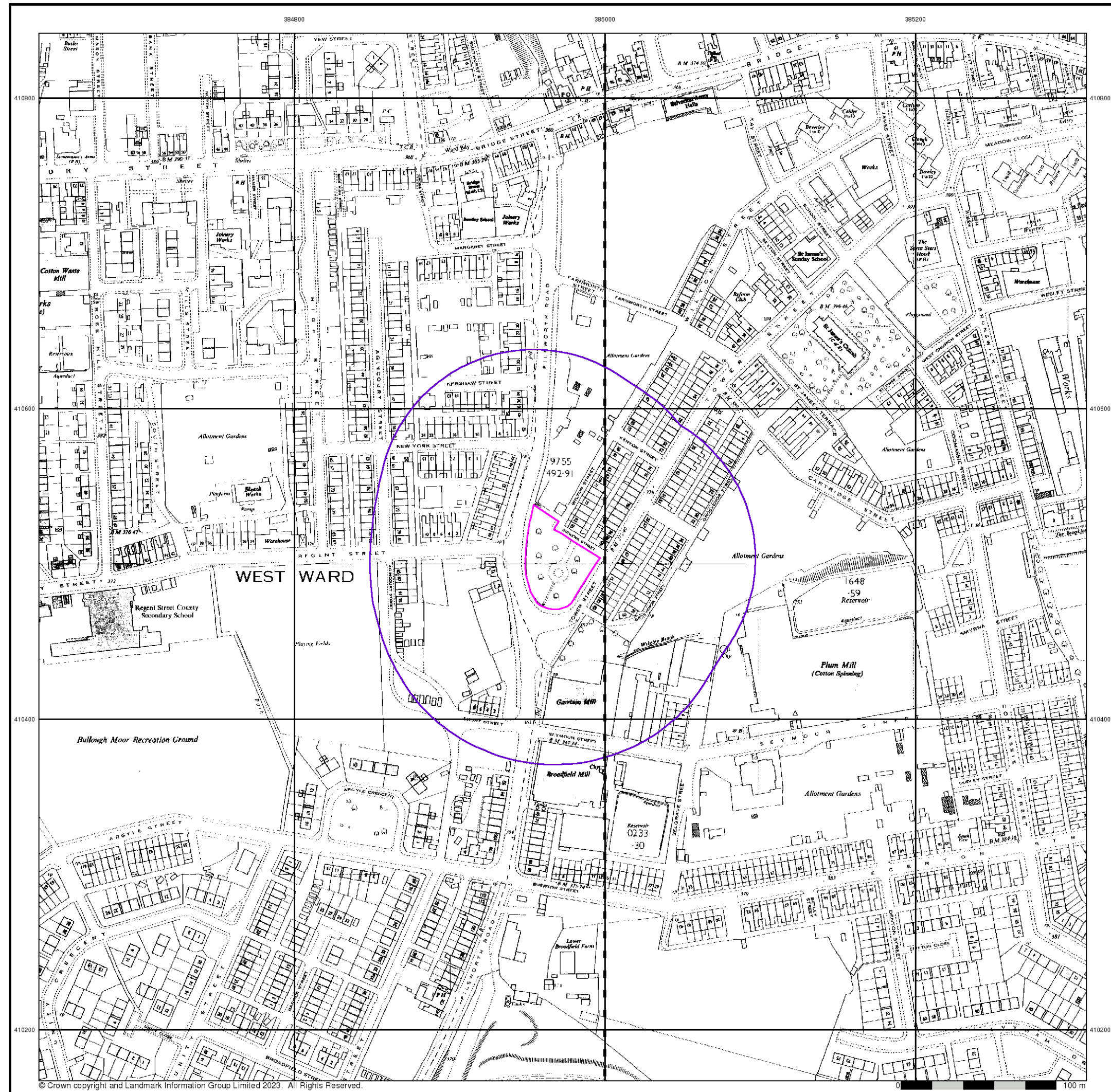
Additional SIMs
Published 1967 - 1984
Source map scale - 1:1,250
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)	
SD8410NE 1977 1:1,250	SD8510NW 1984 1:1,250
SD8410SE 1967 1:1,250	SD8510SW 1984 1:1,250



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Site Details
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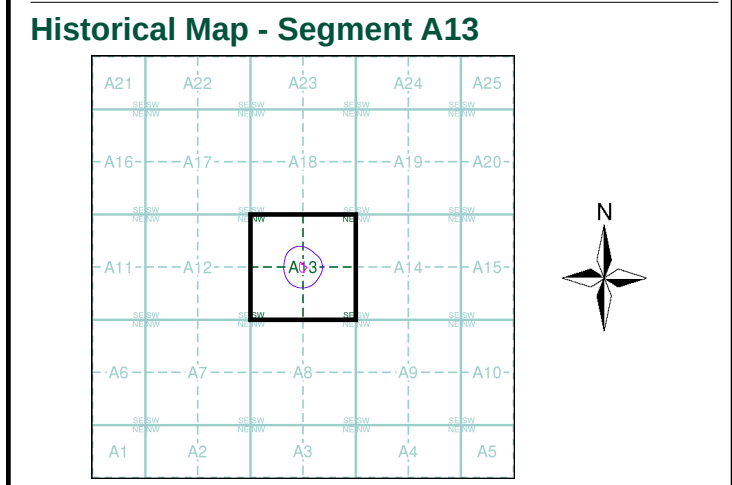
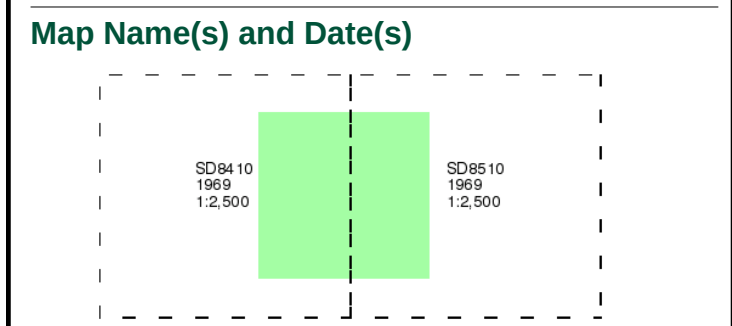


Ordnance Survey Plan

Published 1969

Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.



Order Details

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Customer Ref: POR017084

National Grid Reference: 384970, 410500

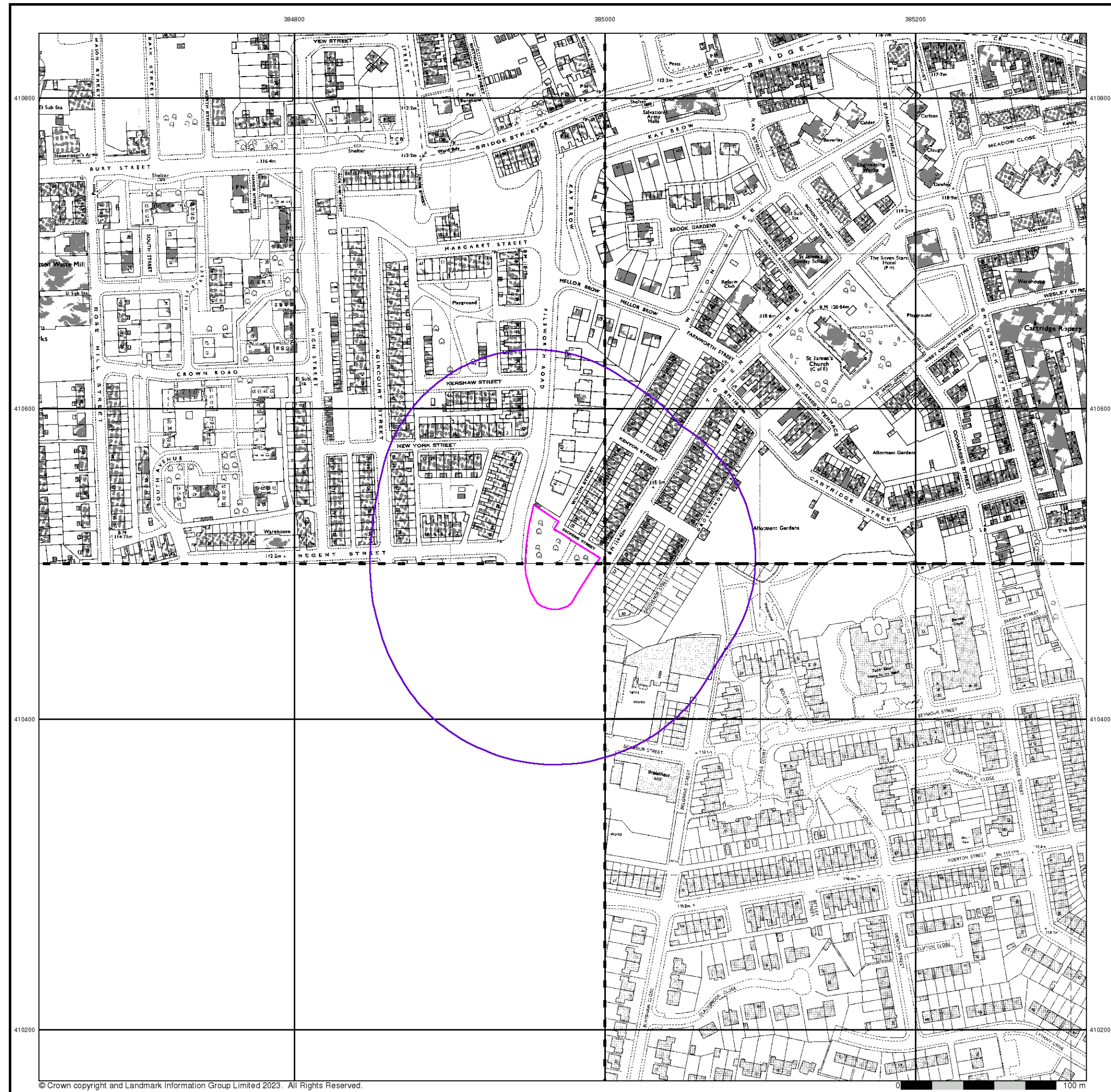
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Site Area (Ha): 0.2

Search Buffer (m): 100

Site Details

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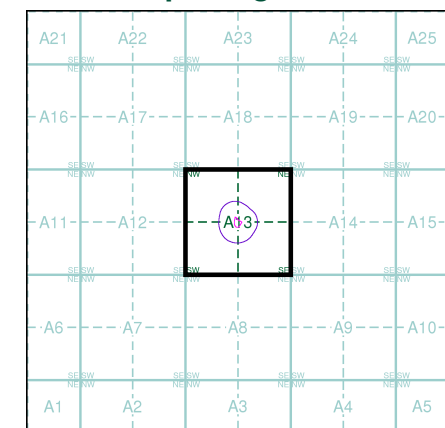
Ordnance Survey Plan
Published 1973 - 1991
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

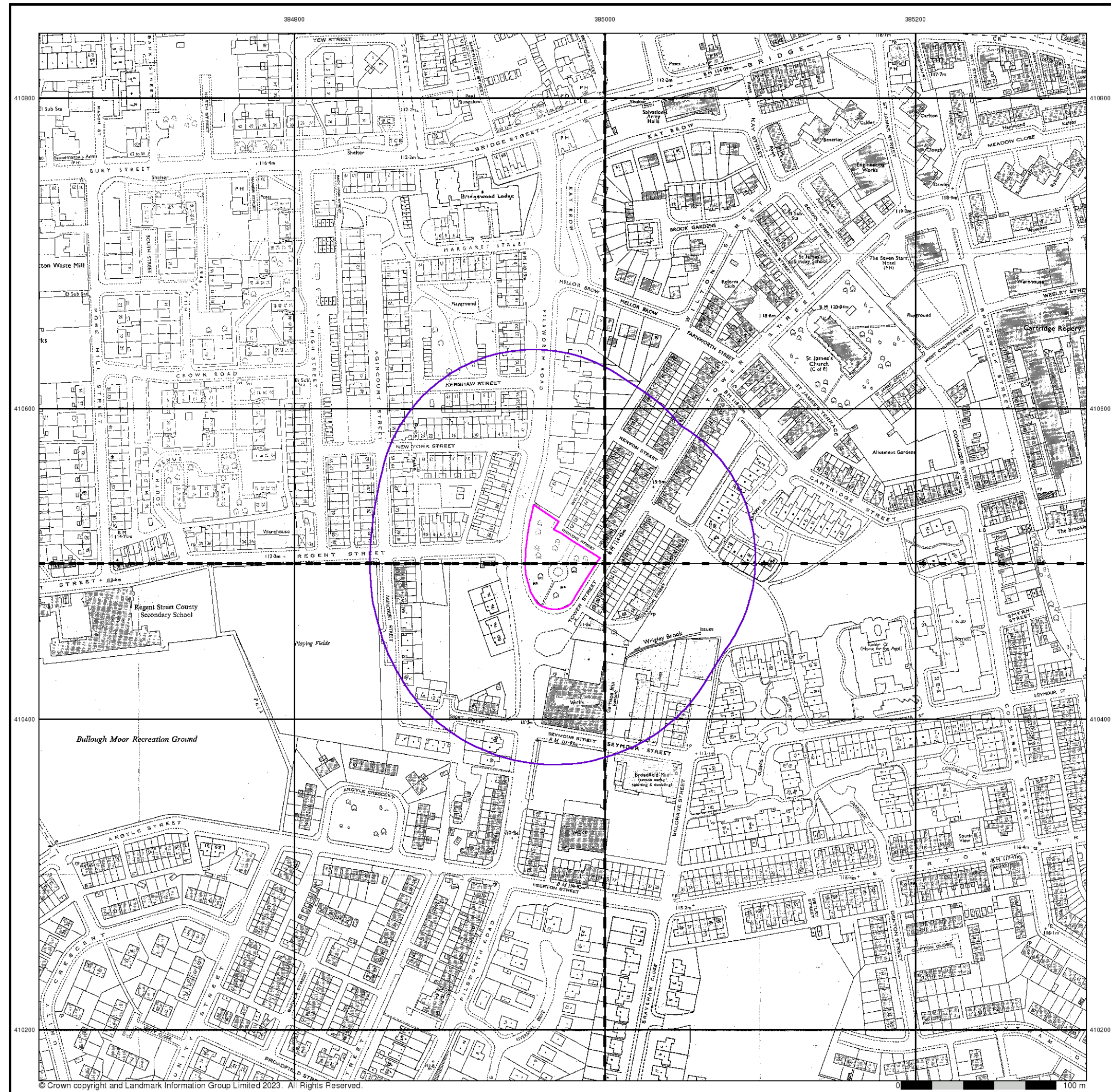
SD8410NE 1975 1:1,250	SD8510NW 1973 1:1,250
	SD8510SW 1991 1:1,250

Historical Map - Segment A13



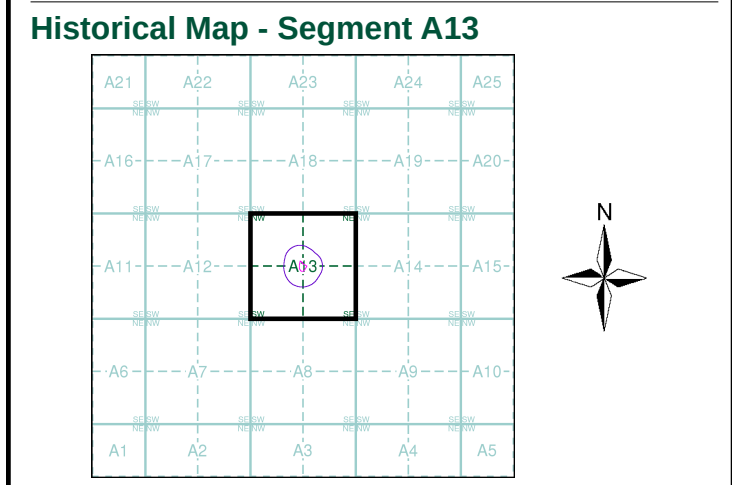
Order Details
Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
Search Buffer (m): 100

Site Details
23-511 Pilsworth Road, HEYWOOD

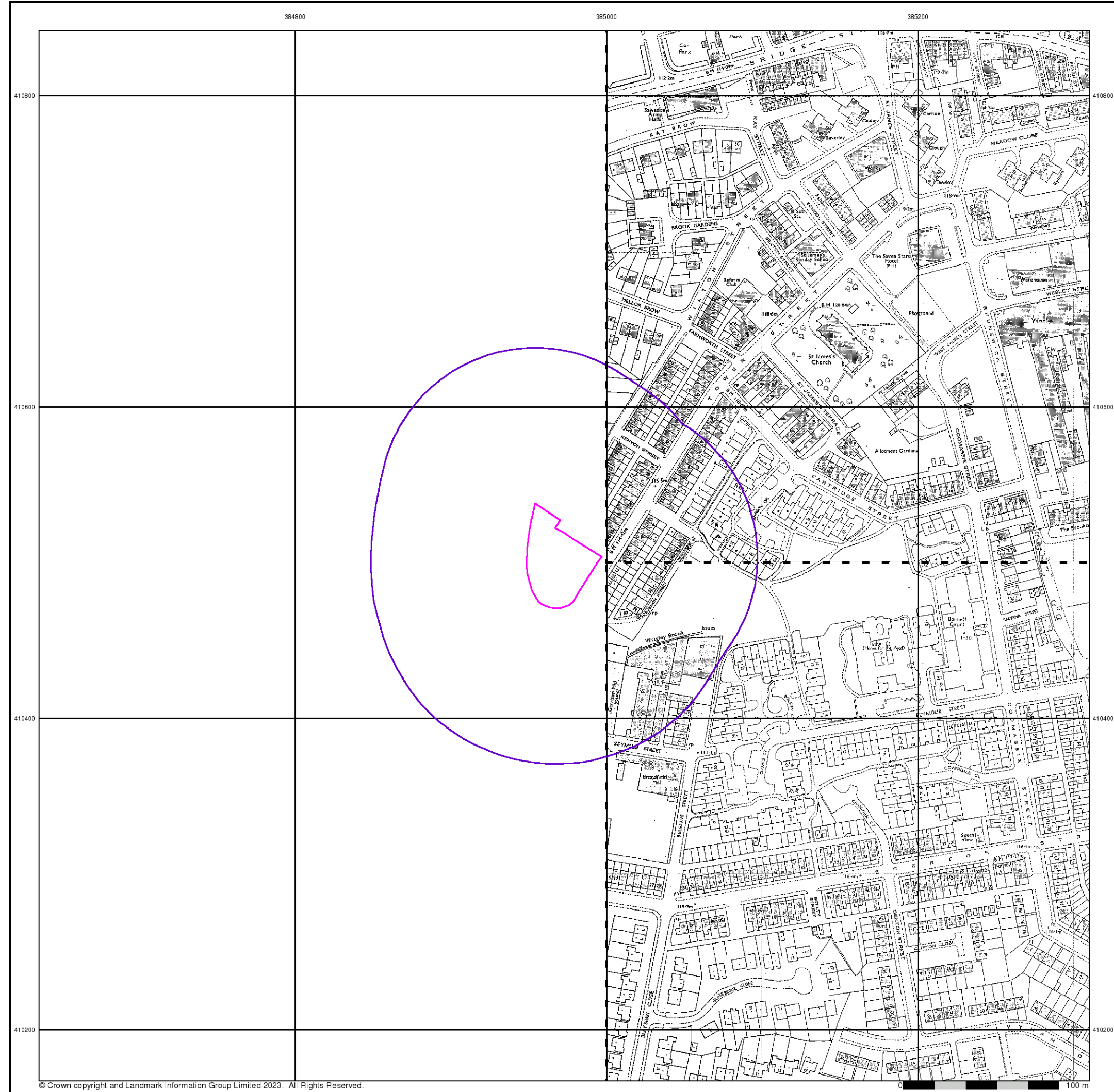


Additional SIMs
Published 1985 - 1990
Source map scale - 1:1,250
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)	
SD8410NE 1985 1:1,250	SD8510NW 1986 1:1,250
SD8410SE 1990 1:1,250	SD8510SW 1985 1:1,250



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Additional SIMs

Published 1988 - 1990

Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SD8510NW
1990
1:1,250
SD8510SW
1988
1:1,250

Historical Map - Segment A13

Order Details

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Web: www.envirocheck.co.uk

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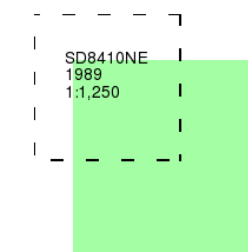
Ordnance Survey Plan

Published 1989

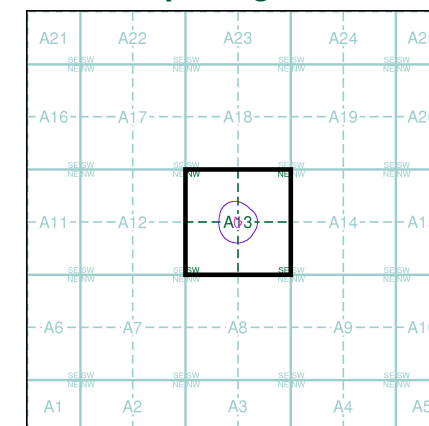
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

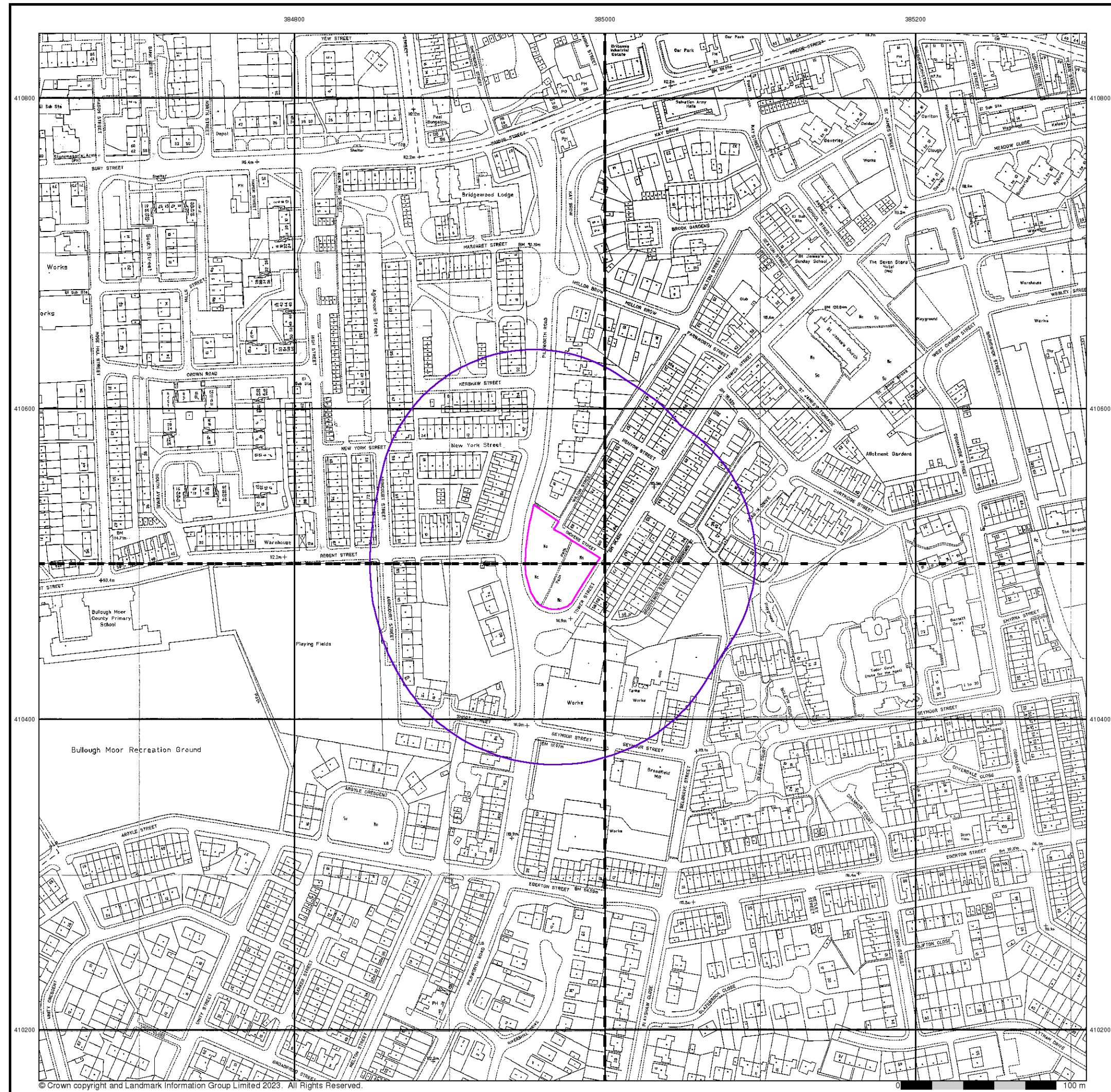


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Site Details

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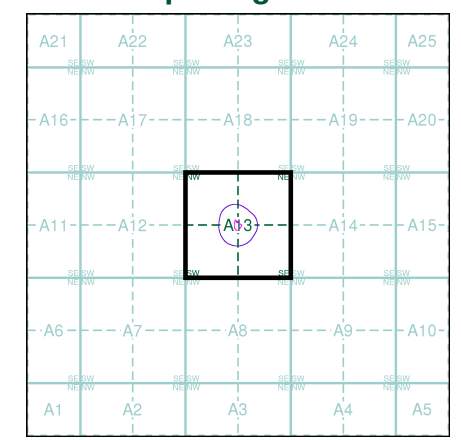
Large-Scale National Grid Data
Published 1992
Source map scale - 1:1,250

'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)

SD8410NE 1992 1:1,250	SD8510NW 1992 1:1,250
SD8410SE 1992 1:1,250	SD8510SW 1992 1:1,250

Historical Map - Segment A13

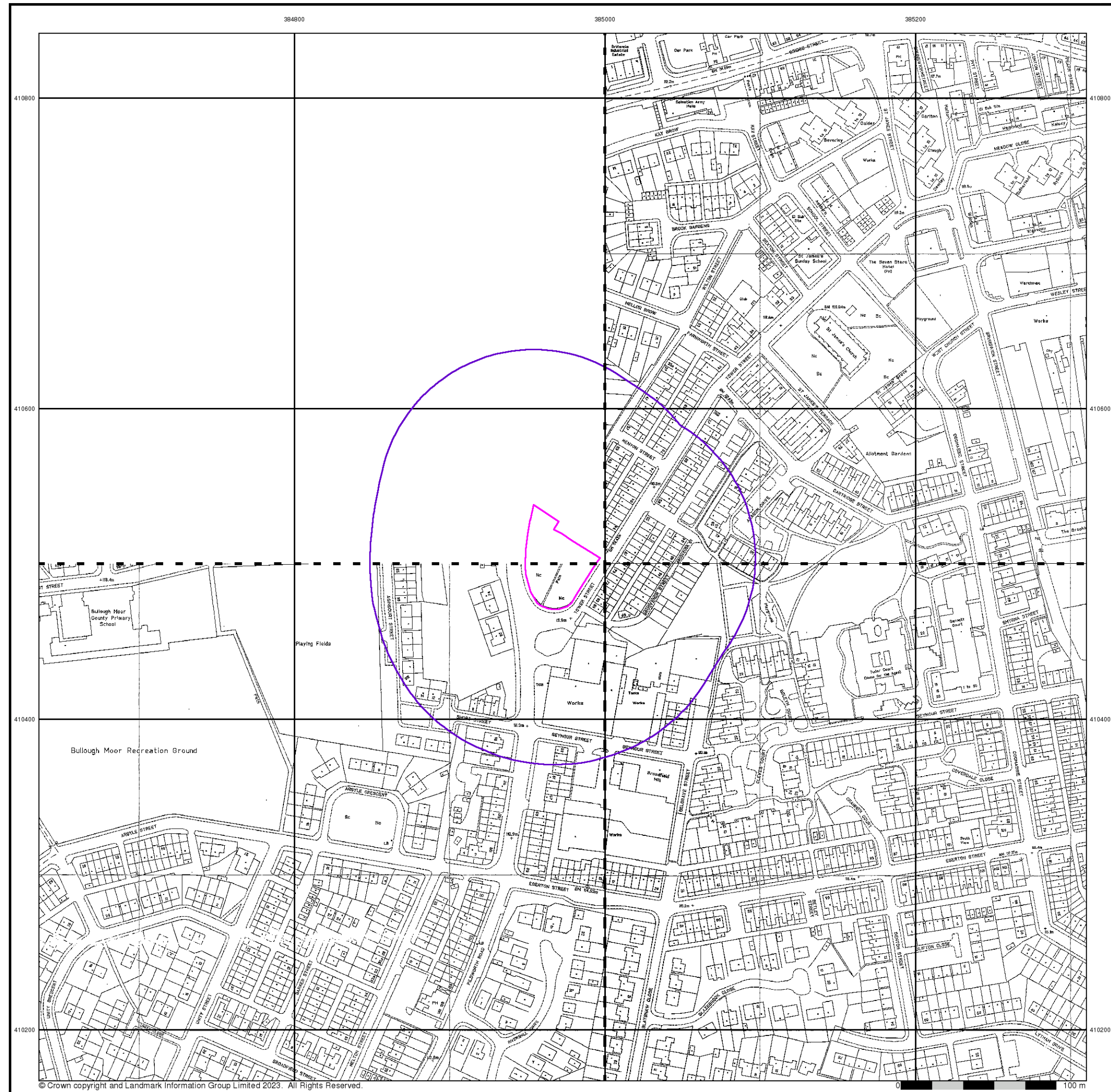


Order Details

Order Number: 325232792_1_1
Customer Ref: POR017084
National Grid Reference: 384970, 410500
Slice: A
Site Area (Ha): 0.2
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Site Details

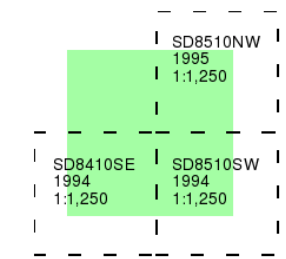
23-511 Pilsworth Road, HEYWOOD



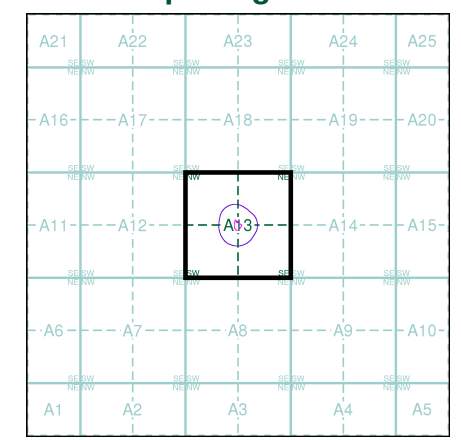
Large-Scale National Grid Data
Published 1994 - 1995
Source map scale - 1:1,250

'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 A13



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Site Details
23-511 Pilsworth Road, HEYWOOD

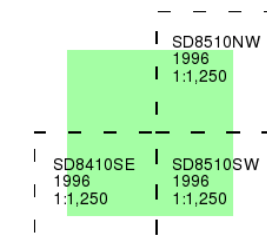
Large-Scale National Grid Data

Published 1996

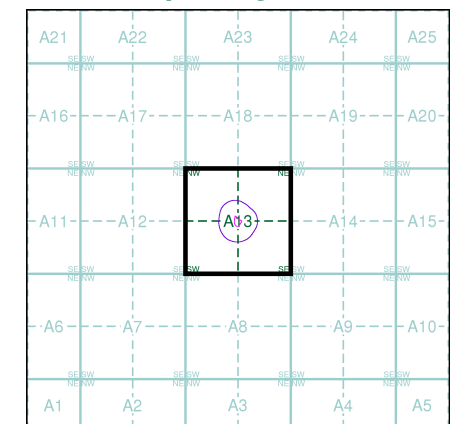
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



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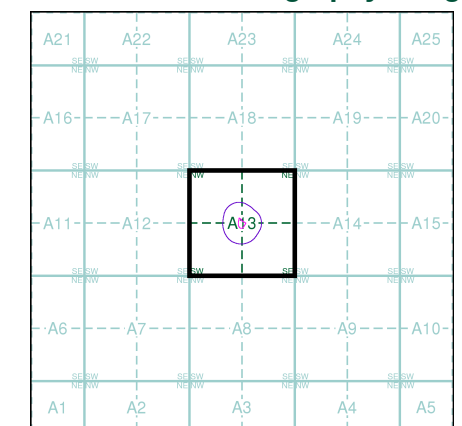
23-511 Pilsworth Road, HEYWOOD

Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



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