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Phase 1

Environmental Assessment Report

The Byrons Housing Care

Bank House Road

Higher Blackley

Manchester

M9 8LY

Date: 27th October 2026

Version 1

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Document Verification

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Checked by	Tom Craig	**Signature**	

Executive Summary

The preliminary environmental site assessment indicates that the site can be classified as moderate-high risk in terms of contamination and the risks to the identified receptors (e.g., human health, buildings) following redevelopment is considered to be moderate-high.

This classification is due to well-established ground gas risks from an adjacent historic landfill. A number of ground investigations with monitoring data from nearby development sites have classified the site as Characteristic Situation 4 (CS4 – moderate to high risk). Ingress into the plant room is feasible and inhalation/ asphyxiation to future maintenance workers is possible. Ingress into an enclosed space could also present a risk of explosion.

Given the limited development proposed, a Phase 2 ground investigation is not deemed necessary. It would be prudent to assume the worst-case scenario and recommend the installation of CS4 gas protection measures.

A remediation strategy should be prepared prior to redevelopment to detail the remediation and validation requirements. This document should be submitted to planning for approval prior to building.

Disclaimer

This report has been prepared by EnviroSolution Ltd who has exercised such professional skill, care and diligence as may reasonably be expected of a properly qualified and competent consultant experienced in preparing reports of a similar scope.

However, to the extent that the report is based on or relies upon information contained in records, reports or other materials provided to EnviroSolution Ltd, which have not been independently produced or verified, EnviroSolution Ltd, gives no warranty, representation or assurance as to the accuracy or completeness of such information.

The scope of this report is restricted to potential ground contamination and its environmental impact; it does not cover above-ground hazards (e.g., asbestos in buildings), ecological sensitivities (e.g., bats), biological or horticultural hazards (e.g., Japanese Knotweed) or structural hazards (e.g., building stability) unless specifically referred to in the text of this report.

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1 Introduction

1.1 Background

EnviroSolution Ltd was commissioned to undertake a Phase 1 Environmental Site Assessment at a site located at The Byrons Housing Care in Manchester. This report was commissioned to provide information on the potential contamination status of the site.

1.2 Objectives

The objective of the preliminary environmental site assessment was:

1. To provide a summary of the environmental setting and historical land use of the site and immediate surrounding area.
2. To obtain information on the ground conditions present beneath the site.
3. To develop a conceptual site model and complete a generic quantitative risk assessment to identify any environmental risks and liabilities associated with ground conditions at the site.

1.3 Scope of Work

To achieve the objectives, the following scope of work was completed:

1. A desk-based study of the site comprising a review of available environmental information for the site such as geological and hydrogeological data and historical land use information.
2. A site walkover survey.
3. Assessment of potential hazards and constraints during construction and longer term.

This work has been devised to generally comply with the relevant principles and requirements of the following legalisation and guidance:

- Part IIA of the Environmental Protection Act, 1990 and Section 57 of the Environmental Act 1995;
- Contaminated Land (England) (Amendment) Regulations 2012 and Contaminated Land Statutory Guidance (DEFRA, April 2012);
- National Planning Policy Framework (Ministry of Housing, Communities and Local Government, 2026);
- BS10175: 2026 Investigation of Potentially Contaminated Sites- Code of Practice; and
- Environment Agency (2020) Land Contamination Risk Management Report LCRM “How to assess and manage the risks from land contamination”.

1.4 Information Sources

Historical Ordnance Survey maps have been obtained from historical records, ranging from 1864 to 2026. These maps provide high quality information on historical site use.

The British Geological Survey Geoindex database has been used to provide information on geo-environmental aspects of the site and the immediate surrounding area such as geological, hydrogeological and hydrological data.

The Environment Agency website (www.gov.uk/government/organisations/environment-agency) and Magic website (www.magic.gov.uk) was also used to obtain environmental information.

Industry Profiles produced by the Department of the Environment were utilised to obtain information on processes, materials and wastes associated with potential contaminative land uses near the site.

Readily available information sources have been used to produce this desk-based study. Additional information may be requested by the Local Planning Authority (e.g. local authority environmental information request).

2 The Site

2.1 Site Location

The site is located at The Byrons Housing Care, Bank House Road, Higher Blackley, Manchester, M9 8LY. The British National Grid Reference for the approximate site centre is GR: 385050 403550.

The site location is shown on **Figure 1** in **Appendix A**.

2.2 Site Description

The site description has been prepared following a walkover survey conducted by EnviroSolution Ltd on the 27th of October 2026. The site photographs are included in **Appendix B.**

The site is roughly rectangular in shape and covers an approximate total area of 4,000 square metres. The footprint of the proposed development covers a much smaller area of approximately 30 square metres, located on the western flank of the existing building.

At the time of the walkover, excavations had taken place and the excavation left open.

The site is currently occupied by a mix of 2 and 3-storey apartments arranged in an L-shape used as social housing. A car park and landscaped area are located in the eastern half of the site.

The site is accessed via a driveway along the southern boundary.

The site is generally flat with little change in elevation at approximately 84m aOD.

The site is bounded by a primary school to the east, high school to the north and residential houses to the west and south.

No petrol filling stations have been identified within a 250m radius of the site.

The existing site plan is shown on **Figure 2** which is included in **Appendix A**.

2.3 Development Proposals

It is understood that the development proposal is for the construction of a plant room.

The plant room would incorporate a gas solenoid value and isolation system, a thermal store, a BMS panel, expansion vessel EXP-1, 3no, boilers and 3PV. The plant room would have a pitched roof and would include 3 boiler flues. The plant room would have opening doors which would open out onto the direction of the building. The plant room, at the largest point, would have approximate dimensions of 5.2m x 2.4m x 4m. The plant room would be sited approximately 1.3 metres from the main building.

The planning application reference is 144175/FO/2025 with Manchester City Council.

The proposed development plan is shown on **Figure 3** which is included in **Appendix A.**

2.4 Site History

The development site and surrounding area has been reviewed with reference to historical Ordnance Survey (OS) maps. The history of the site and immediate surrounding area is summarised in Table 1. Copies of the historical OS maps are included in **Appendix C**. A search buffer of 250m has been used.

Table 1 - Historic Mapping Review

Date	Scale	On Site	Off Site
1848	1:10,560	The site is an undeveloped parcel of land within an agricultural field.	Surrounding land mostly undeveloped. Culverted watercourse 70m northeast.
1893	1:2,500	No significant change.	Old clay pit 195m southeast of the site.
1909	1:2,500	No significant change.	No significant change.
1923	1:10,560	No significant change.	No significant change.
1932	1:2,500	No significant change.	No significant change.
1938	1:10,560	No significant change.	No significant change.
1951	1:2,500	No significant change.	Residential development to the west. Garage 210m east. Evidence of ground workings 100m north, 220m south and 200m southeast.

Date	Scale	On Site	Off Site
1955	1:1,250	No significant change.	Residential development to the south. Evidence of ground workings 40m north, 90m northeast and 200m southeast. Garage labelled as automotive works. Joinery works 220m southeast.
1963	1:1,250	Fairholme care home built on site.	Refuse tip labelled 60m north.
1980	1:1,250	No significant change.	Refuse tips no longer labelled. School built directly east.
1992	1:1,250	No significant change.	No significant change.
1999	1:10,000	No significant change.	No significant change.
2026	1:10,000	Site redeveloped to current supported living home.	No significant change.

3 Environmental Setting

3.1 Geology

Geological maps of the area indicate that the site is directly underlain by superficial diamicton deposits. Diamicton deposits generally consist of unsorted clays, silts, sands and gravels.

The underlying bedrock is the Manchester Marls Formation, deposited during the Permian Period. It mainly consists of red marl (calcareous mudstone and siltstone) with thin beds of fossiliferous marine limestone and dolomite.

The nearest geological fault is located approximately 60m north of the site.

A borehole log (Ref: SD80SW930) was obtained from BGS online records 270m northwest of the site. The borehole shows 0.40m of topsoil overlying loose slightly silt sand.

A copy of the geological maps is included in **Appendix D.** A copy of the BGS borehole records is included in **Appendix E**.

3.2 Radon

The site lies within the lowest band of radon potential where it is estimated that less than 1% of the properties are above the action level (low probability). Radon protective measures are not deemed necessary for the development.

3.3 Coal Mining Activity

The site falls within a Coal Mining Reporting Area described as having minable coal deposits but does not lie within a 'Development High Risk Area' for coal mining, as defined by the Coal Authority. As such, it is considered that there are no coal mining related hazards which could affect the site.

A copy of the coal mining summary map is included in **Appendix F**.

The nearest recorded mine entry is located 1.8km northeast of the site and the nearest area of potential shallow mine workings is located 1.78m east of the site.

3.4 Hydrogeology

The superficial diamicton deposits are designated as a Secondary Undifferentiated Aquifer, defined as; cases where it has not been possible to assign either Category A or B to a soil type.

The underlying Manchester Marl Formation is designated as a Secondary B Aquifer, defined as; a geological layer with predominantly lower permeability that stores and yields limited amounts of groundwater due to localized features such as fissures, thin permeable horizons, and weathering.

There are 2 no. records of groundwater abstraction licences located within a 1km radius of the site. They are located 615m south and 705m southwest of the site and are used for industrial purposes.

The site does not lie within a Source Protection Zone.

A copy of the hydrogeological maps is included in **Appendix G**.

3.5 Hydrology

The River Irk is located 660m south of the site. There are no further significant surface water features (rivers, lakes and reservoirs) located within a 1km radius of the site.

There are no minor surface water features located in the surrounding area.

3.6 Flood Risk

The site lies within a Flood Zone 1 (low probability), land assessed as having less than a 1 in 1,000 annual probability of river flooding (0.01%) in any year (low risk). The completion of a detailed Flood Risk Assessment is not deemed necessary for this site.

A copy of the flood risk map is included in **Appendix H**.

3.7 Waste Management Facilities

There are 5 no. records of historic landfill sites located within a 1km radius of the site. The historic landfill site information is summarised in Table 2 below:

Table 2 – Historic Landfill Summary

Landfill Site	Operation Dates	Waste Type	Distance from Site
Tweedle Hill	Unknown – 1970	Unknown	0m N
Pike Fold Lane	Unknown	Unknown	125m SE
Riverdale Road	Unknown	Unknown	450m SW
Blackley New Road	Unknown	Unknown	630m SW
White Moss Road	Unknown	Unknown	915m SE

A copy of the historic landfill map is included in **Appendix I**.

There are no records of currently authorised landfill sites located within a 1km radius of the site.

There are no records of sites operating under an environmental permit for waste operations within a 1km radius of the site.

3.8 Environmental Permits, Incidents and Registers

There are a number of records of sites located within a 1km radius of the development site operating under an environmental permit for discharges to water and groundwater. The nearest is located 600m south of the site by United Utilities Water Limited for a sewer overflow

There are no records of pollution incidents recorded by the Environment Agency having occurred within a 1km radius of the site.

There are no records of sites located within a 1km radius of the development site operating under an environmental installation permit.

3.9 Designated Environmentally Sensitive Sites

There are 2 no. records of designated environmentally sensitive sites located within a 1km radius of the site.

The environmental designations are summarised in Table 3 below:

Table 3 - Environmental Designations Summary

Designation	Distance	Details
Local Nature Reserves	520m	The Blackley Forest Local Nature Reserve is located
Nitrate Vulnerable Zone	On Site	The Nitrate Vulnerable Zone is located 785 m west of the site.

A copy of the environmental designations map is included in **Appendix J**.

4 Third Party Reports

A planning record search was undertaken for the proposed development site and immediate surrounding sites.

4.1 On-Site Investigation Reports

- Ironside Farrar Ltd, Bank House Road, Phase 1 Desk Study / Preliminary Risk Assessment, 3739, October 2008.

This report can be found under planning application reference 088673/FO/2008/N1.

Findings of the risk assessment based on future residential use have highlighted that overall, the site presents a low to medium risk.

The presence of former landfills onsite/ nearby provides a significant source of landfill ground gas. Even if off site, these features are at a distance that could influence the study area.

It was recommended that a ground investigation is carried out at the site.

There is no publicly available record of this investigation on the planning portal.

- Groundtech Consulting, The Byrons, Geo-Environmental Appraisal, GRO-25154-6052, September 2025.

This investigation comprised a geotechnical ground investigation including 3 no. window sample boreholes.

Made Ground was recorded with a thickness of 1.20m and comprised brown gravelly, clayey sand with slate, concrete, sandstone and brick. No visual or olfactory evidence of contamination was noted. The underlying diamicton comprised 2.80m of firm to stiff slightly gravelly clay. A dense brown very sandy gravel layer was recorded from 2.20m to 4.5m bgl.

4.2 Off-Site Investigation Reports

- HSP Consulting Engineers Ltd, Hillside Centre, Phase I Geo-Environmental Desk Study Report, C2729/PI, February 2018.
- HSP Consulting Engineers Ltd, Hillside Centre, Phase II Geo-Environmental Assessment Report, C2729/PII, April 2018.
- Sutcliffe Investigations, Prospect House Primary School, Phase II Interpretive Ground Assessment, 30186LG, April 2020.
- Sutcliffe Investigations, Prospect House Primary School, Phase III Remediation and Validation Proposals, 30186LG-R03 Rev A, April 2020.

- Sutcliffe Investigations, Prospect House Primary School, Phase IV Validation Completion Report, 30186-SUT-ZZ-00-RP-G-704-0001, January 2022.
- Sinclair Knight Merz (SKM), Co-Operative Academy, Geo-Environmental Investigation, November 2008.

The reports related to the redevelopment of the adjacent primary school can be found under planning application reference 136187/FO/2023 and related condition discharges.

Investigations undertaken on the primary school site adjacent to the eastern boundary has shown thicknesses of Made Ground up to 5.0m which is equated to the Tweedle Hill Landfill to the north.

Exceedances of Drinking Water Standards and Environmental Quality Standards screening criteria are not considered significant given the likely depth to perched groundwater, effects of natural attenuation, lack of nearby groundwater abstractions and the absence of any surface water courses that could be in continuity with ground water beneath the site. Therefore, the risk to Controlled Waters was deemed to be low.

A review of HSPs Consulting classification revealed a Characteristic Situation 4, based on the GSV calculation with carbon dioxide at 15.4% and a maximum flow rate of 25.5 l/hr. A review of Sutcliffe's classification revealed a Characteristic Situation 2, based on the GSV calculation with carbon dioxide at 11.6% and a maximum flow rate of 0.7 l/hr. Sutcliffe additionally make reference to an SKM report completed at the Co-Operative Academy concluding Characteristic Situation 4.

5 Preliminary Conceptual Site Model

5.1 Introduction

In order to assess the environmental risks present, a preliminary conceptual model has been developed for the site. This model has been developed using best practice guidelines in conjunction with the current assessment framework taking into account the development proposals. This preliminary conceptual model is based on the gathered desk-based information (e.g. historical OS data and data sourced from the EA, Geoindex and Magic databases).

The conceptual site model is a representation of the hypothesised relationships between sources, pathways and receptors which allows the identification of potential pollutant linkages and whether these linkages have the potential to comprise significant harm and/or pollution of controlled waters in relation to the site. This model comprises three elements:

Source – the key pollutant hazards associated with the site

Receptor – the key targets at risk from the sources

Pathway – the means by which the contaminant can cause harm to the receptor

If all three elements are present, then a potential pollutant linkage exists, and this may require further assessment.

5.2 Potential Contamination Sources

The site has remained undeveloped until the 1960s when Fairholme care home was built. The care home was later demolished and the site redeveloped to the current layout and supported living apartments around 2010.

Given the historic demolition, there is the potential for Made Ground to be present on site. Recent geotechnical investigations have shown up to 1.20m of Made Ground containing slate, sandstone, concrete and brick underlying the site. Potential contaminants associated with the Made Ground include heavy metals, polyaromatic hydrocarbons, asbestos and ground gases (carbon dioxide and methane).

The Made Ground may be associated with the historic Tweedle Hill landfill encroaching into the site boundary.

Several off-site land uses have been identified in the surrounding area that have the potential to contaminate the shallow soils at the site. The land uses and their associated contaminants are summarised in Table 4 below:

Table 4 – Off-Site Land Use Summary

Land Use	Potential Contaminants
Clay pit (infilled)	Ground gases (i.e., methane, carbon dioxide)
Garage	Heavy metals, hydrocarbons, polyaromatic hydrocarbons (PAHs), solvents
Joinery works	Heavy metals, hydrocarbons, polyaromatic hydrocarbons (PAHs), solvents
Historic landfills	Ground gases (i.e., methane, carbon dioxide)

It is considered that the garage and joinery works can be discounted as potential sources of contamination due to the distance from site (>200m).

The natural superficial soils are shown by ground investigation records to include granular layers which could provide a migration pathway for ground gases to the site.

5.3 Receptors

The potential receptors considered to be at risk from soil and groundwater contamination associated with the site are summarised in Table 5 below:

Table 5 - Receptor Description

Receptor	Details
Human (On Site)	- Construction workers - Future site users - Site visitors
Human (Off Site)	- Adjacent site users
Controlled Waters	- Secondary Undifferentiated Aquifer - Secondary B Aquifer - River Irk
Building/ construction materials	- Foundations - Buried services
Environmental Receptors	- Local Nature Reserves - Nitrate Vulnerable Zone

5.4 Pathways

The potential exposure pathways linking contamination with the receptors identified above are summarised in Table 6 below:

Table 6 - Exposure Pathways Summary

Receptor	Details of Exposure Pathway
Human (on-site)	- Direct ingestion of contaminated soil/groundwater - Dermal contact with soil/groundwater - Inhalation of gases and vapours
Human (off-site)	- Inhalation of fibres and particulates - Inhalation of migrating gases and vapours
Controlled waters	- Vertical and lateral migration of dissolved phase contaminants via preferential pathways to groundwater aquifers - Direct surface water run-off to surface water features
Building/construction	- Buried materials/services - Contact with contaminated soil and/or groundwater

5.5 Potential Pollution Linkages

5.5.1 Human Health

At this stage it is understood that future development plans include the construction of a plant room. This is considered to be a non-sensitive end use.

The presence of buildings and hardstanding would eliminate the risk of exposure, via the dermal contact and ingestion pathways to future site users to any ground contamination that may remain following development.

There could be a potential risk of exposure to any ground contamination that remains following redevelopment in any areas of soft landscaping (i.e., gardens), to future site users,

via all possible exposure pathways. However, no areas of soft landscaping are proposed. The site will be completely occupied by the footprint of the plant room.

Any ground gases (i.e., methane and carbon dioxide) and vapours that are present within the soils beneath the site could potentially ingress into future buildings through preferential pathways (e.g., service entry points). Therefore, there would be a risk of exposure via inhalation to future site users.

There is the potential for construction workers and adjacent land users to be exposed to soil and groundwater contamination during site redevelopment. However, the use of appropriate PPE and the adoption of suitable Health and Safety methods will help to reduce the risks posed to human health during this work.

5.5.2 Controlled Waters

The site is immediately underlain by superficial diamicton deposits which on-site boreholes have shown to comprise a 2.80m upper layer of slightly gravelly clay overlying dense sand and gravel. The granular layers may provide a preferential pathway for the migration of any contaminants.

However, the site does not lie within a Source Protection Zone and there are no groundwater abstraction licences held within a 1km radius of the site.

The River Irk is located 660m south of the site. It is considered to be sufficient distance from the site that lateral groundwater flow or surface run-off is unlikely.

Overall, the risk to controlled waters is deemed to be low.

5.5.3 Building/Construction Materials/Buried Services

The presence of any soil and groundwater contaminants beneath the site could potentially impact on construction materials for future new developments, such as below ground structures and services. Concrete foundations are particularly sensitive to aggressive ground conditions, i.e., sulphate attack.

If ground gases and vapour are present in the soil beneath the site, then there would be the potential risk of ingress into new properties which could present a risk of explosion.

5.6 Environmental Designations

The proposed development is not considered to pose a risk to the identified environmental receptors.

5.7 Environmental Designations

A preliminary hazard assessment is presented in Table 7. The preliminary hazard assessment is a qualitative assessment of the risks posed by each potential pollutant linkage described

above and is used to identify the requirement for additional work (e.g., intrusive ground investigation).

Table 7 – Preliminary Hazard Assessment

Source 1	Pathway	Receptor	Likelihood	Effect	Risk	Assessment
Contaminated soil	Ingestion (via soil dust), inhalation (via soil dust and vapours), ingestion through dirty hands, dermal contact with soil/water.	Future site users Adjacent site users Construction workers	1	3	Low	Low sensitivity end use. Proposed plant room will occupy the site, severing any exposure pathways to future site users. Appropriate use of PPE during development will sever exposure to construction workers.
Contaminated soil groundwater	Direct contact	Buildings/ services	1	3	Low	Low sensitivity end use.
Contaminated groundwater	Downward or lateral migration Surface water run-off	Unproductive Aquifer Brook	1	3	Low	No potable groundwater abstractions identified in surrounding area. The site is not located within a Source Protection Zone. Limited potential for migration of pollutants via surface water run-off or lateral groundwater flow to river due to distance.
Ground gas / vapours	Inhalation, ingress into buildings	Buildings / services Future site users	3	4	High	Significant ground gas source potential identified from adjacent historic landfill site. Ground gas monitoring data from adjacent

Radon		Adjacent site users Construction workers				development sites confirms elevated levels of carbon dioxide with significant flow rates recorded classifying the site as Characteristic Situation 4 (CS4 moderate to high risk). Site located within a low probability area for radon.

Using Risk Matrix (Table 8) Degree of Risk (R) = Likelihood (L) x Effect (E)

Table 8 - Risk Matrix, Degree of Risk (R) = Likelihood (L) x Effect (E)

Likelihood	Description	Probability	Effect (E)	Description
5	Almost certain	>70%		
4	Probable	50-70%	4	Severe
3	Likely	30-50%	3	Medium
2	Unlikely	10-30%	2	Mild
1	Negligible	<10%	1	Minor
Risk (R)	**Risk Level**	**Action**		
1-5	Low	None required		
6-10	Moderate	Further assessment via Phase 2 intrusive ground investigation.		
>10	High	Further assessment via Phase 2 intrusive ground investigation.		

6 Conclusions and Recommendations

The preliminary environmental site assessment indicates that the site can be classified as moderate-high risk in terms of contamination and the risks to the identified receptors (e.g., human health, buildings) following redevelopment is considered to be moderate-high.

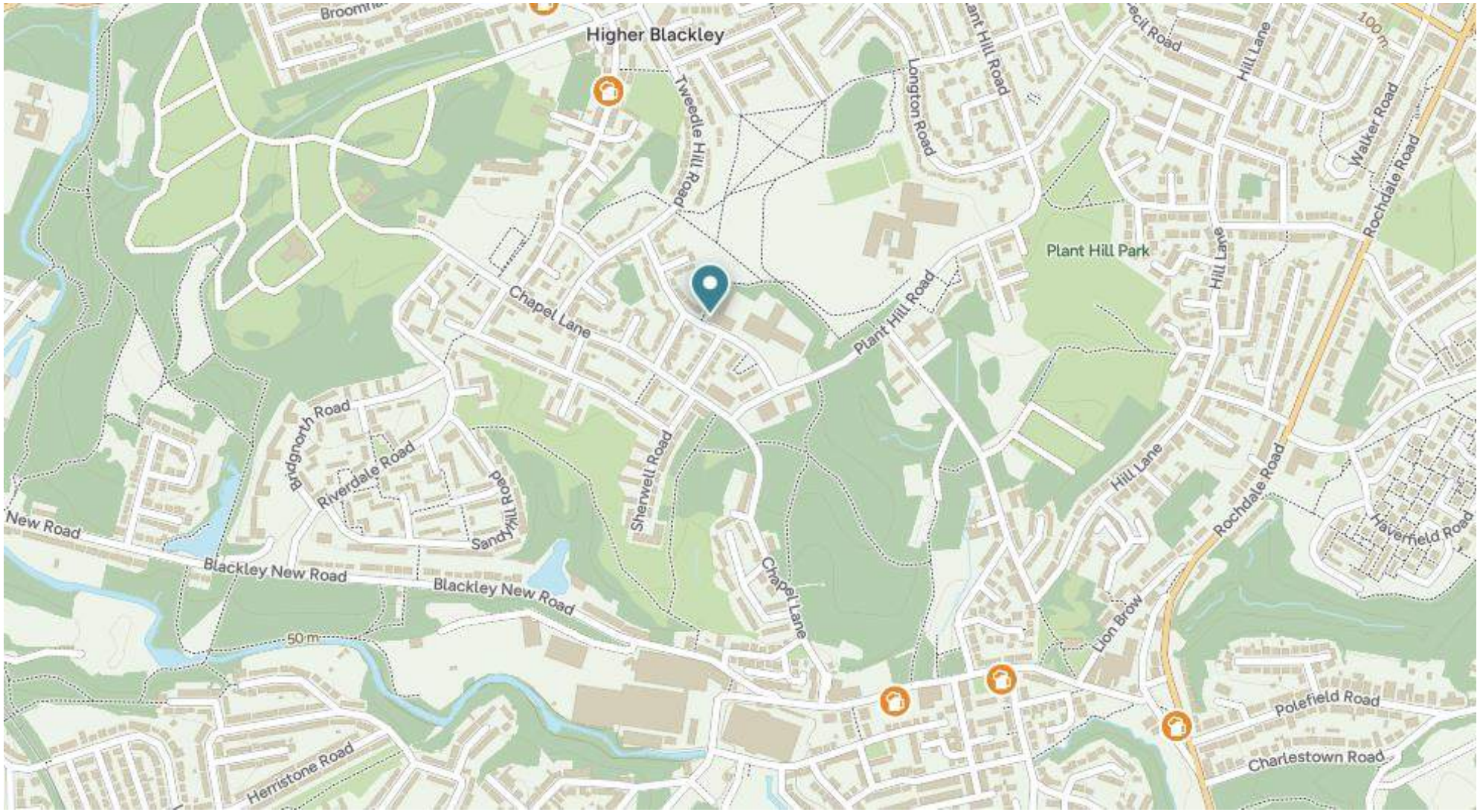
This classification is due to well-established ground gas risks from an adjacent historic landfill. A number of ground investigations with monitoring data from nearby development sites have classified the site as Characteristic Situation 4 (CS4 – moderate to high risk). Ingress into the plant room is feasible and inhalation/ asphyxiation to future maintenance workers is possible. Ingress into an enclosed space could also present a risk of explosion.

Given the limited development proposed, a Phase 2 ground investigation is not deemed necessary. It would be prudent to assume the worst-case scenario and recommend the installation of CS4 gas protection measures.

A remediation strategy should be prepared prior to redevelopment to detail the remediation and validation requirements. This document should be submitted to planning for approval prior to building.

APPENDICES

Appendix A – Site Location and Site Plan



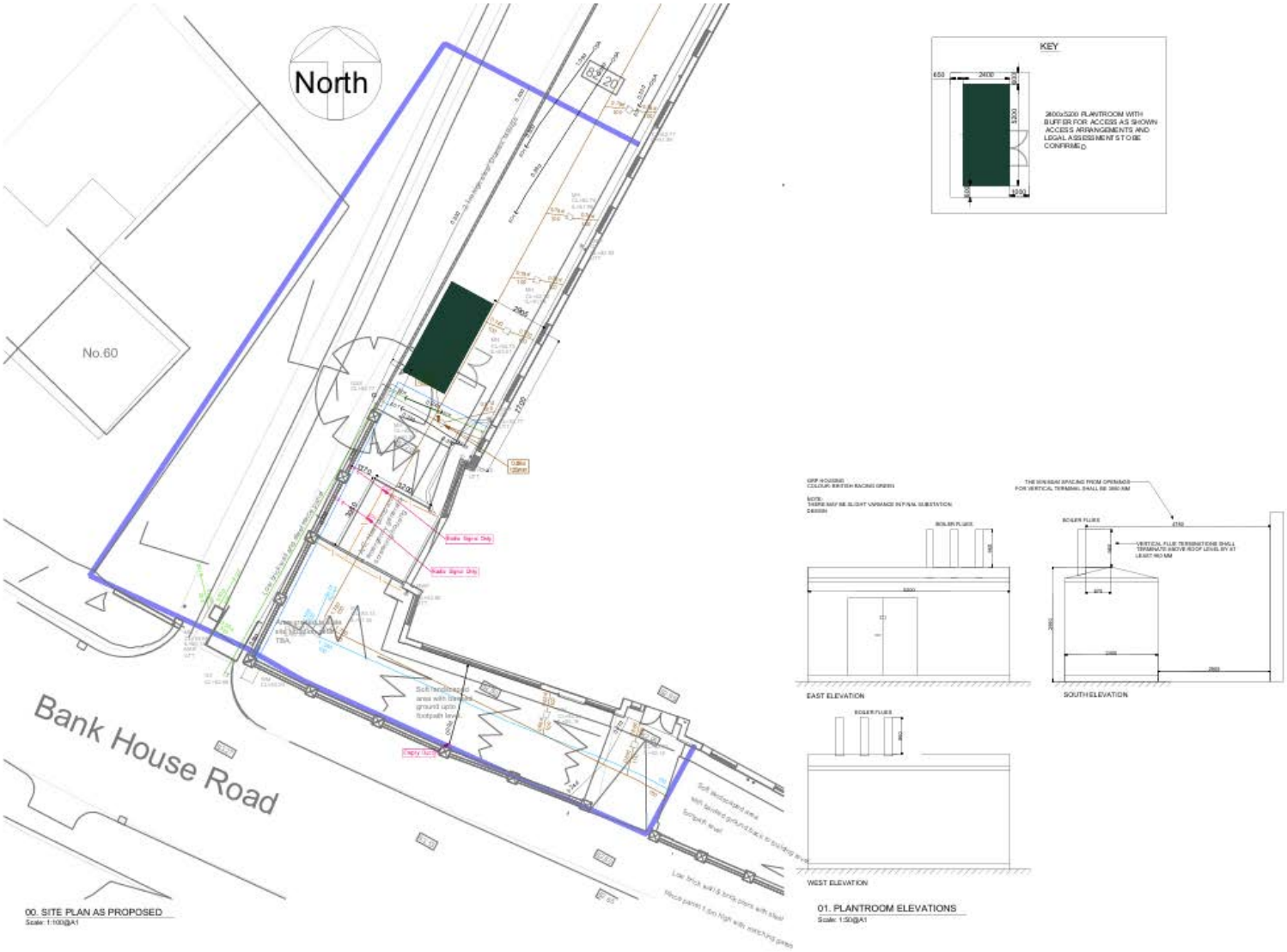
enviro | solution	**Site Location Map**

Figure 1



enviro | solution	**Existing Site Plan**

Figure 2



enviro | solution	**Proposed Site Plan**

Figure 3

Appendix B – Site Photographs



enviro | solution	**Front of site looking west**



enviro | solution	**Western flank of building looking north**



enviro | solution	**Excavation and existing services and relic manhole entry**



enviro | solution	**Excavation**



enviro | solution	**View of proposed**



enviro | solution	**Services**



enviro | solution	**Garden area to the east**

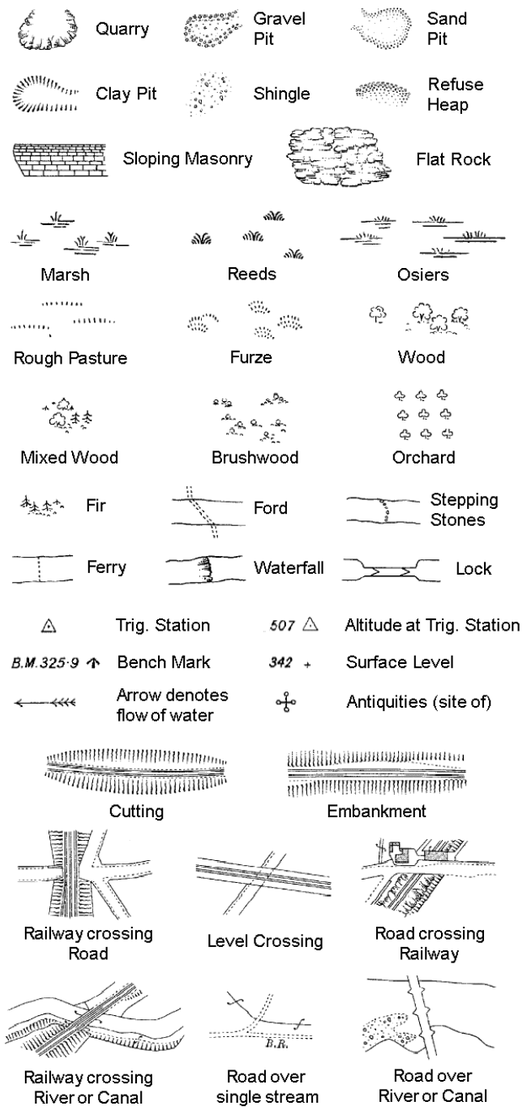


enviro | solution	**Adjacent field (former landfill)**

Appendix C - Historical Maps

Historical Mapping Legends

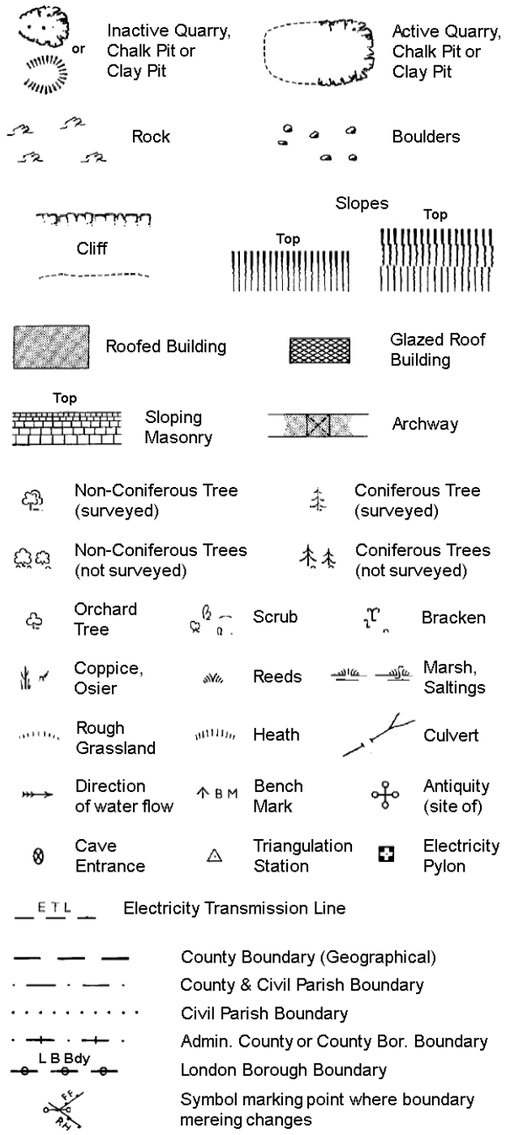
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

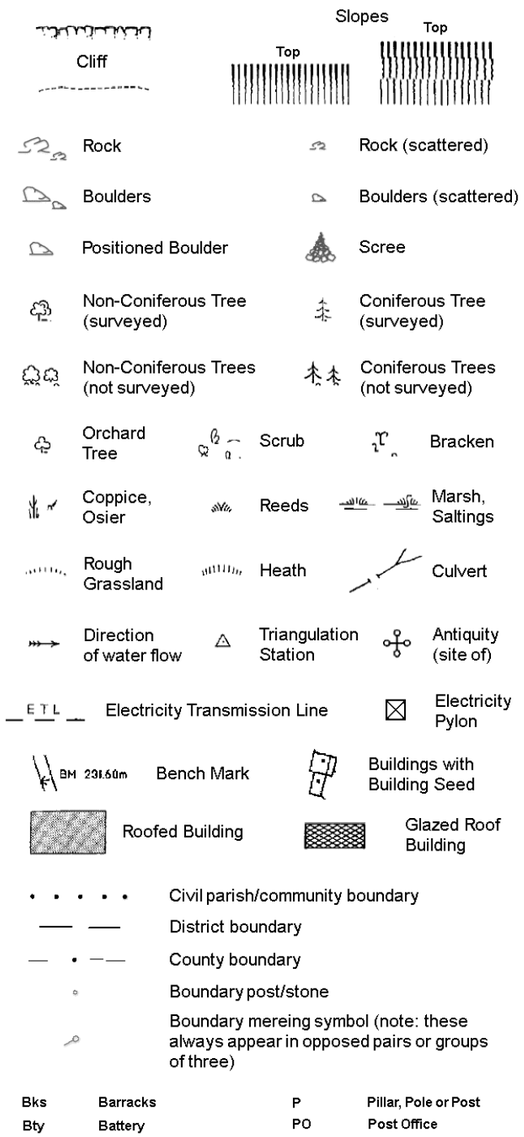
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

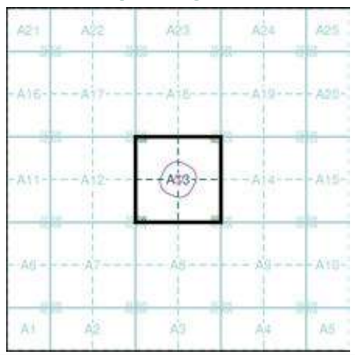
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1909	3
Lancashire And Furness	1:2,500	1932	4
Ordnance Survey Plan	1:1,250	1951 - 1952	5
Ordnance Survey Plan	1:2,500	1952	6
Ordnance Survey Plan	1:1,250	1955	7
Ordnance Survey Plan	1:2,500	1956 - 1967	8
Ordnance Survey Plan	1:1,250	1963 - 1964	9
Ordnance Survey Plan	1:2,500	1967	10
Supply of Unpublished Survey Information	1:1,250	1975	11
Additional SIMs	1:1,250	1980 - 1989	12
Additional SIMs	1:1,250	1988	13
Large-Scale National Grid Data	1:1,250	1992	14
Large-Scale National Grid Data	1:1,250	1993 - 1994	15
Historical Aerial Photography	1:2,500	2000	16

Historical Map - Segment A13



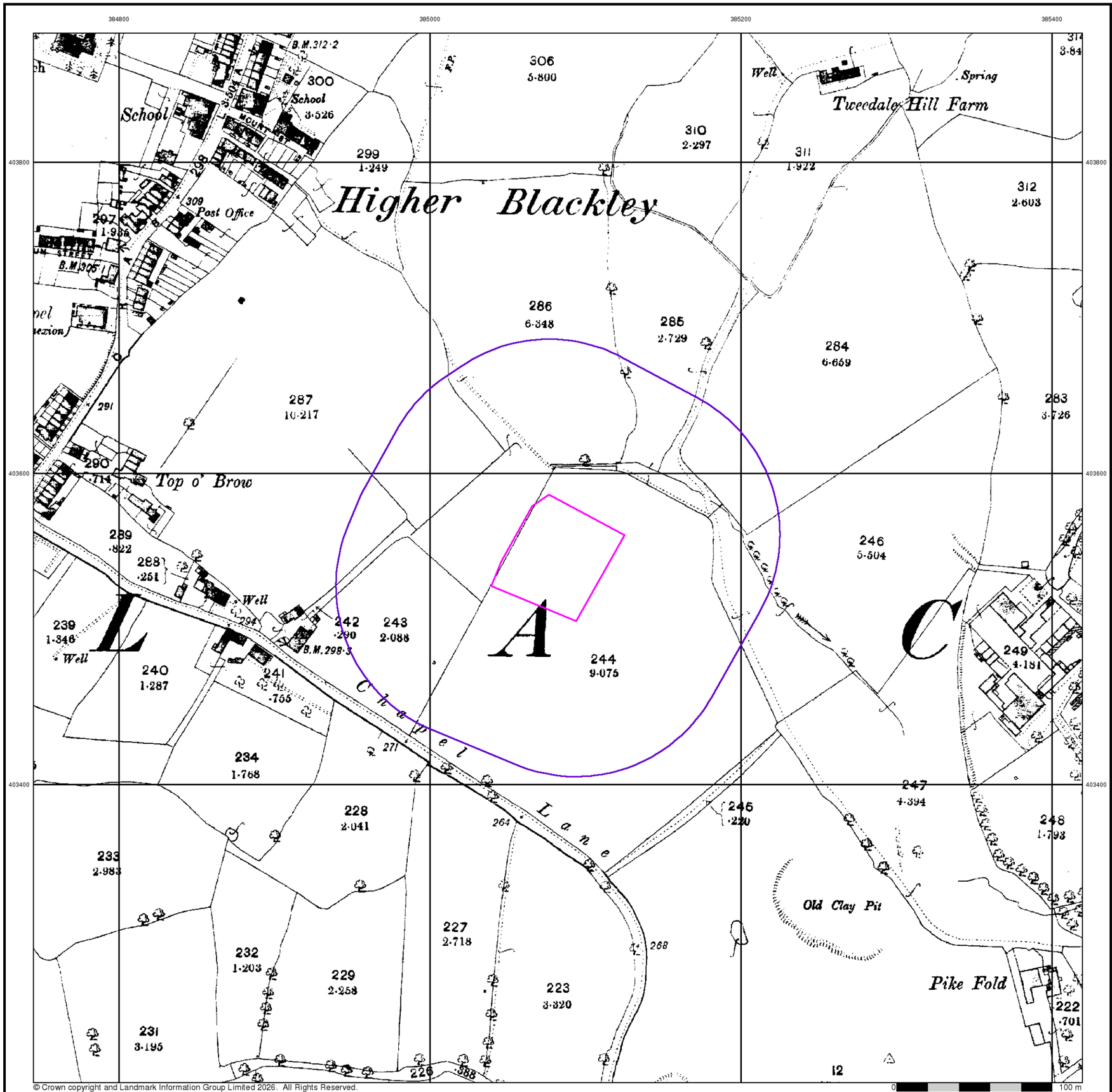
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Order Number: 413842407_1_1
Customer Ref: ES261026
National Grid Reference: 385080, 403550
Slice: A
Site Area (Ha): 0.4
Search Buffer (m): 100

Site Details

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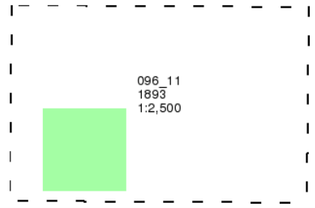
Lancashire And Furness

Published 1893

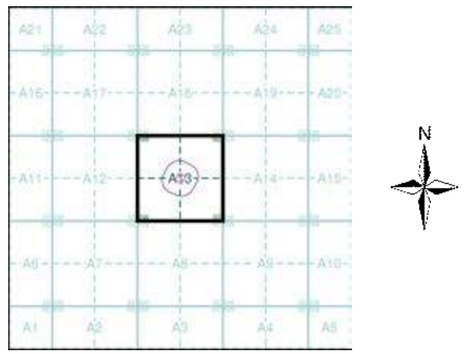
Source map scale - 1:2,500

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

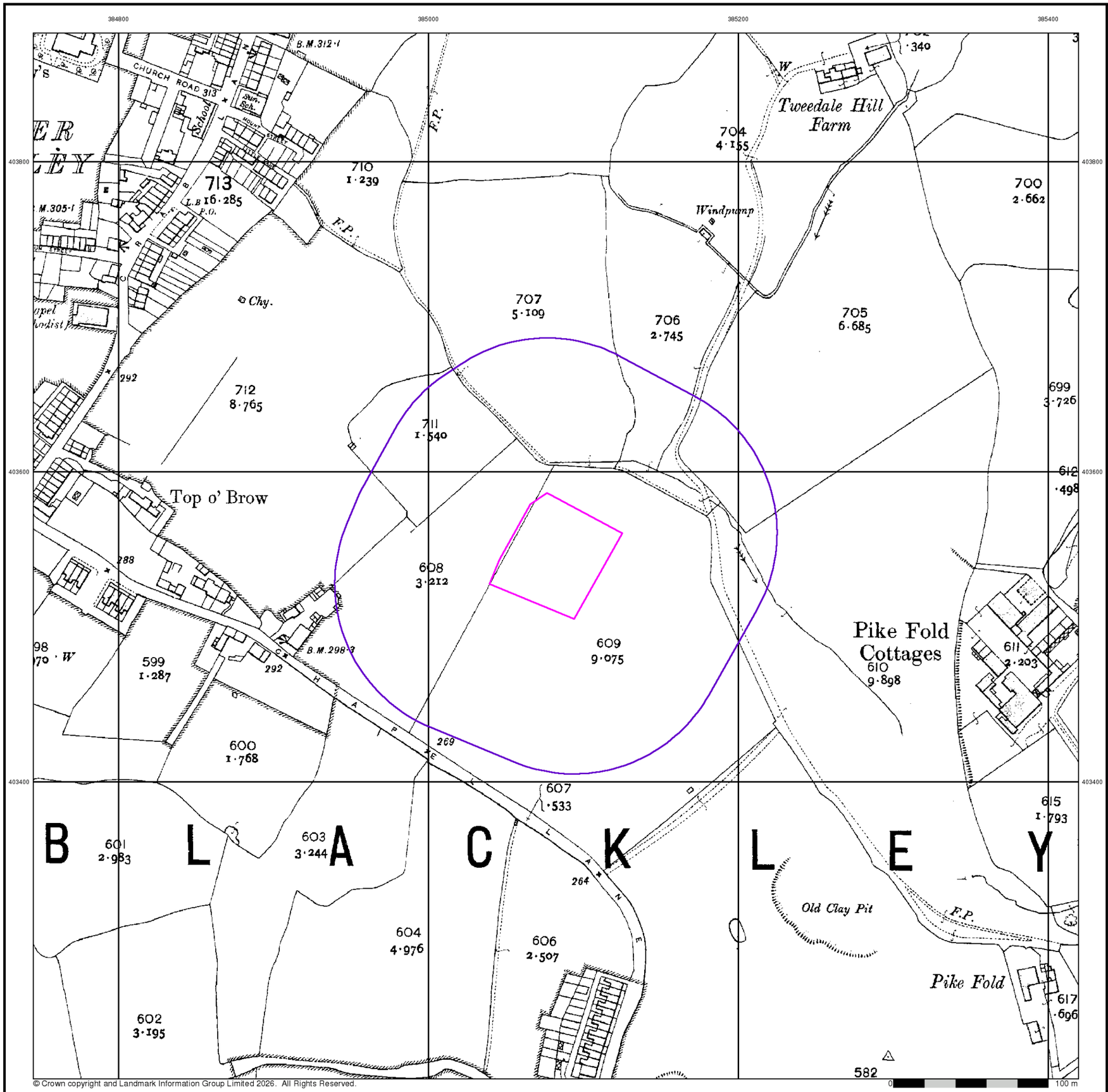
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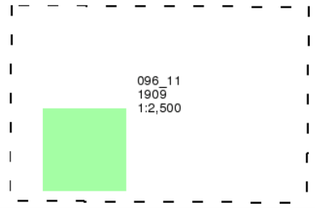
Lancashire And Furness

Published 1909

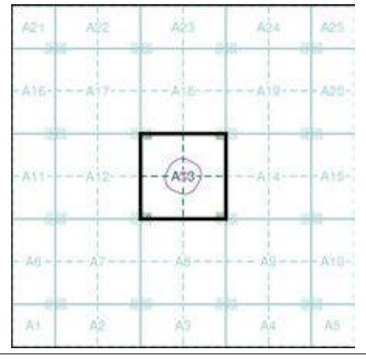
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



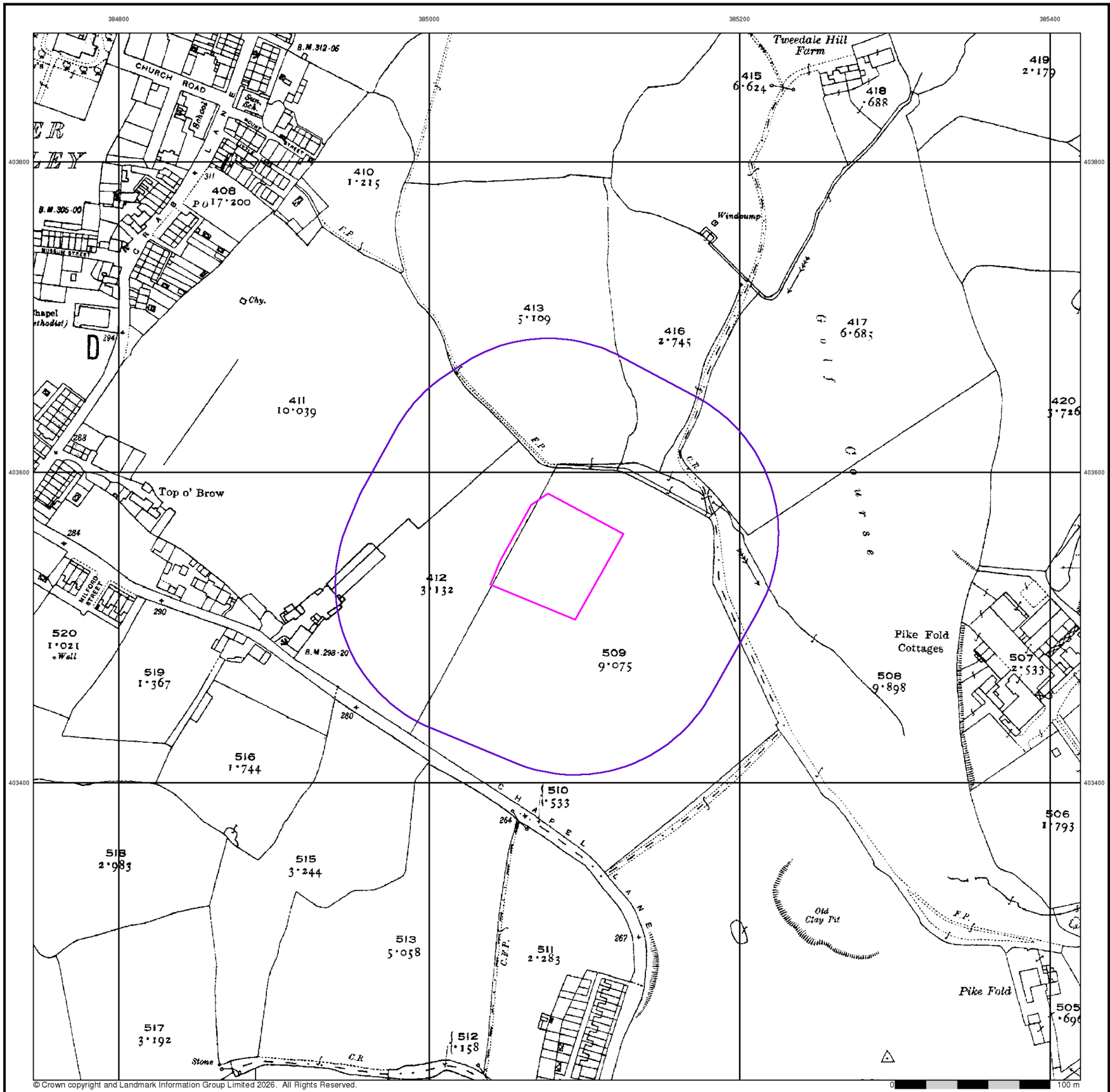
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National Grid Reference:	385080, 403550
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Site Area (Ha):	0.4
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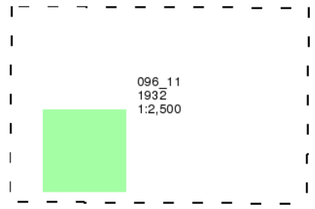
Lancashire And Furness

Published 1932

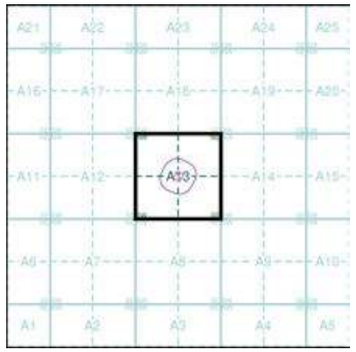
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

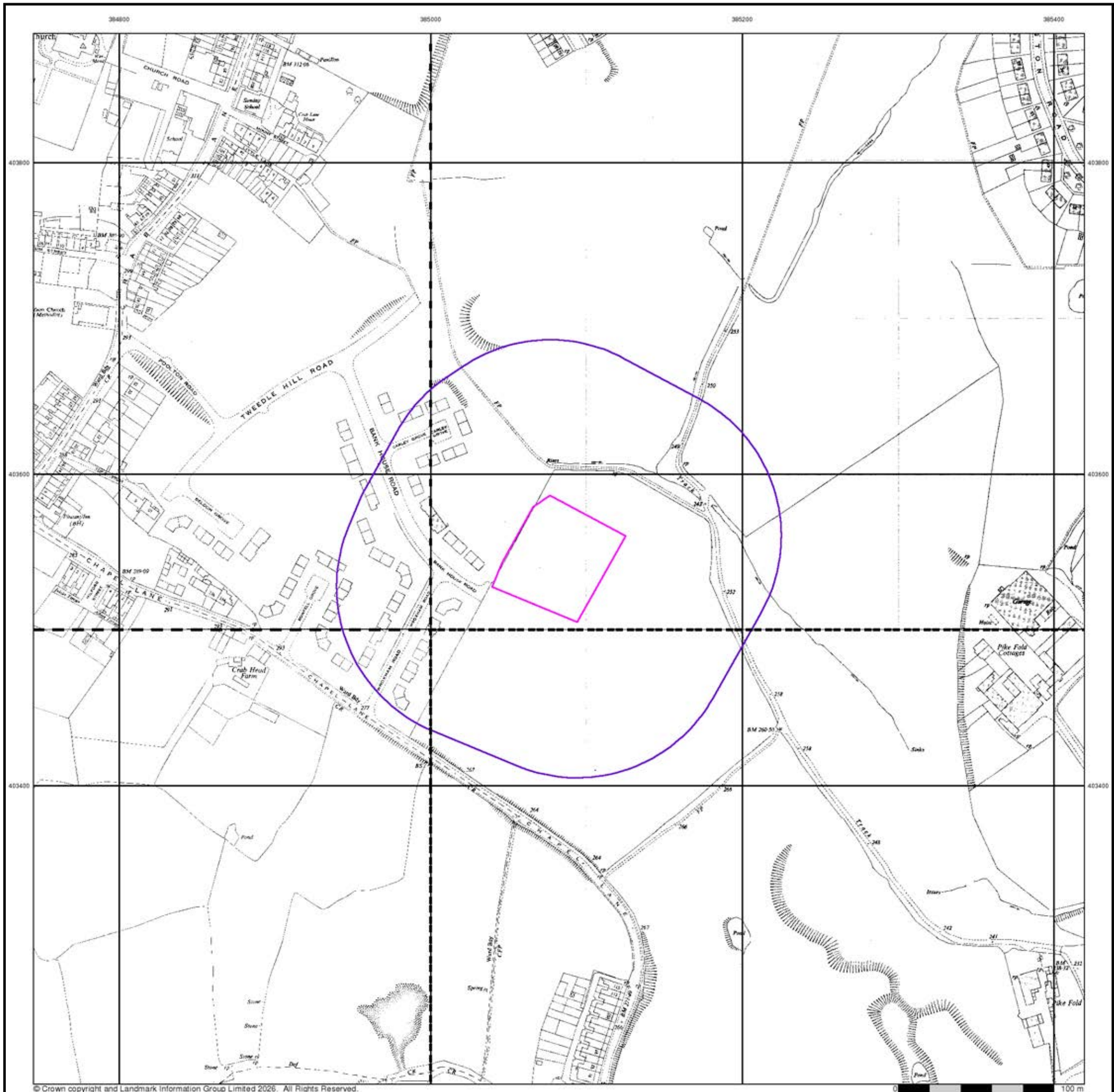
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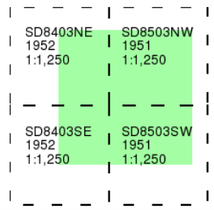
Ordnance Survey Plan

Published 1951 - 1952

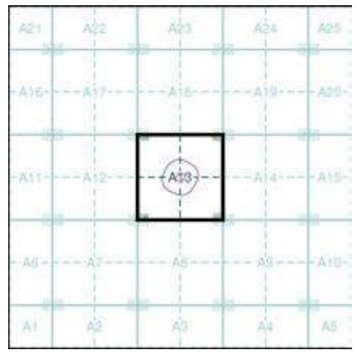
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

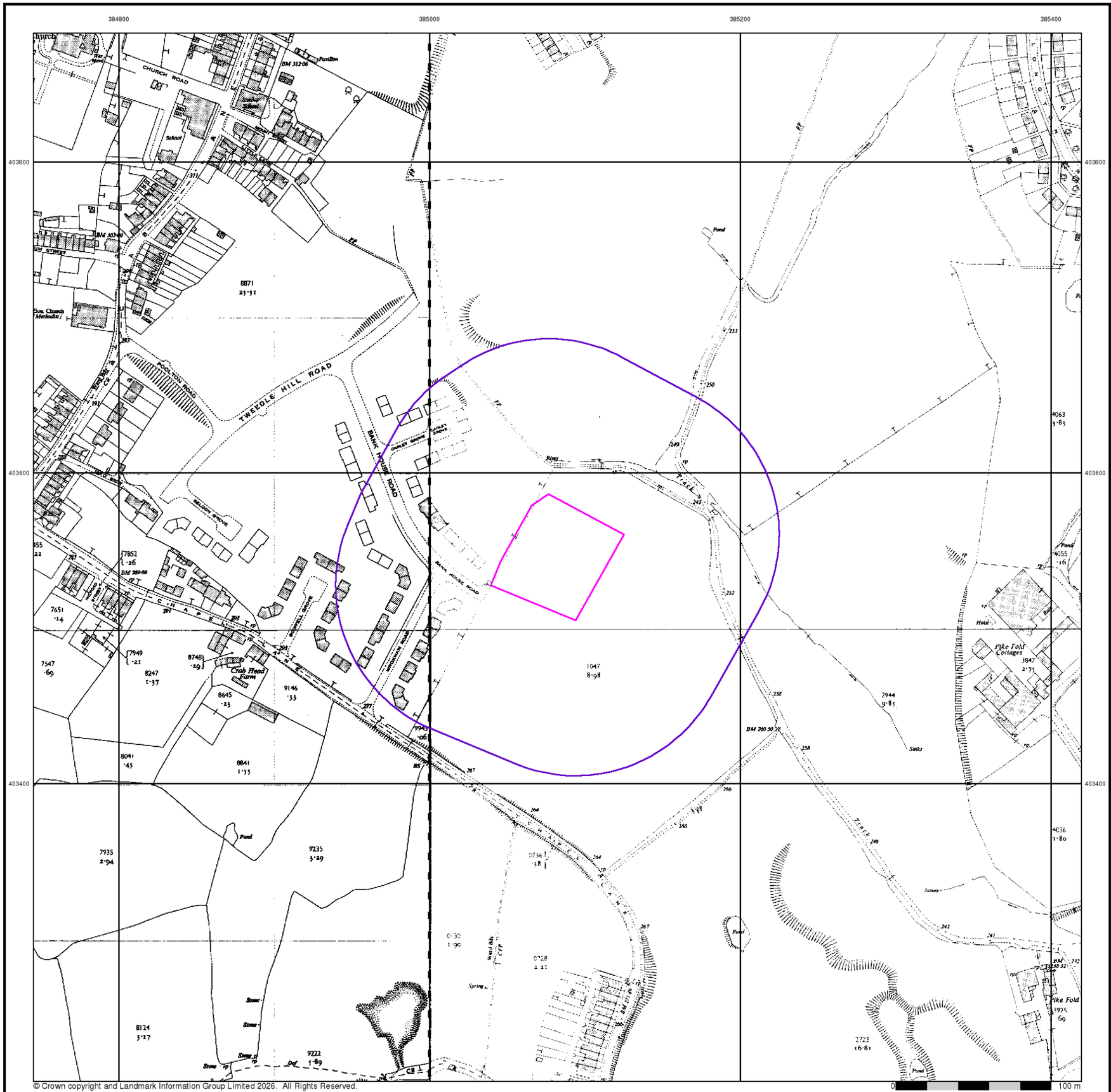
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Search Buffer (m):	100

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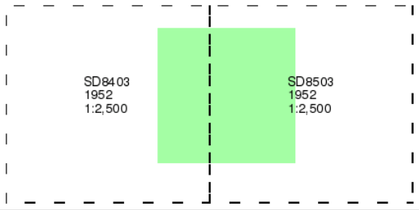
Ordnance Survey Plan

Published 1952

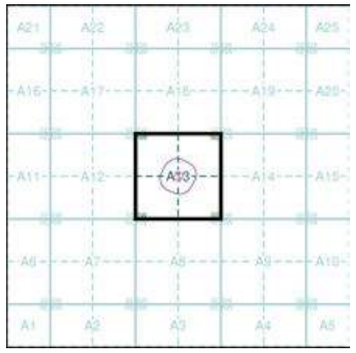
Source map scale - 1:2,500

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

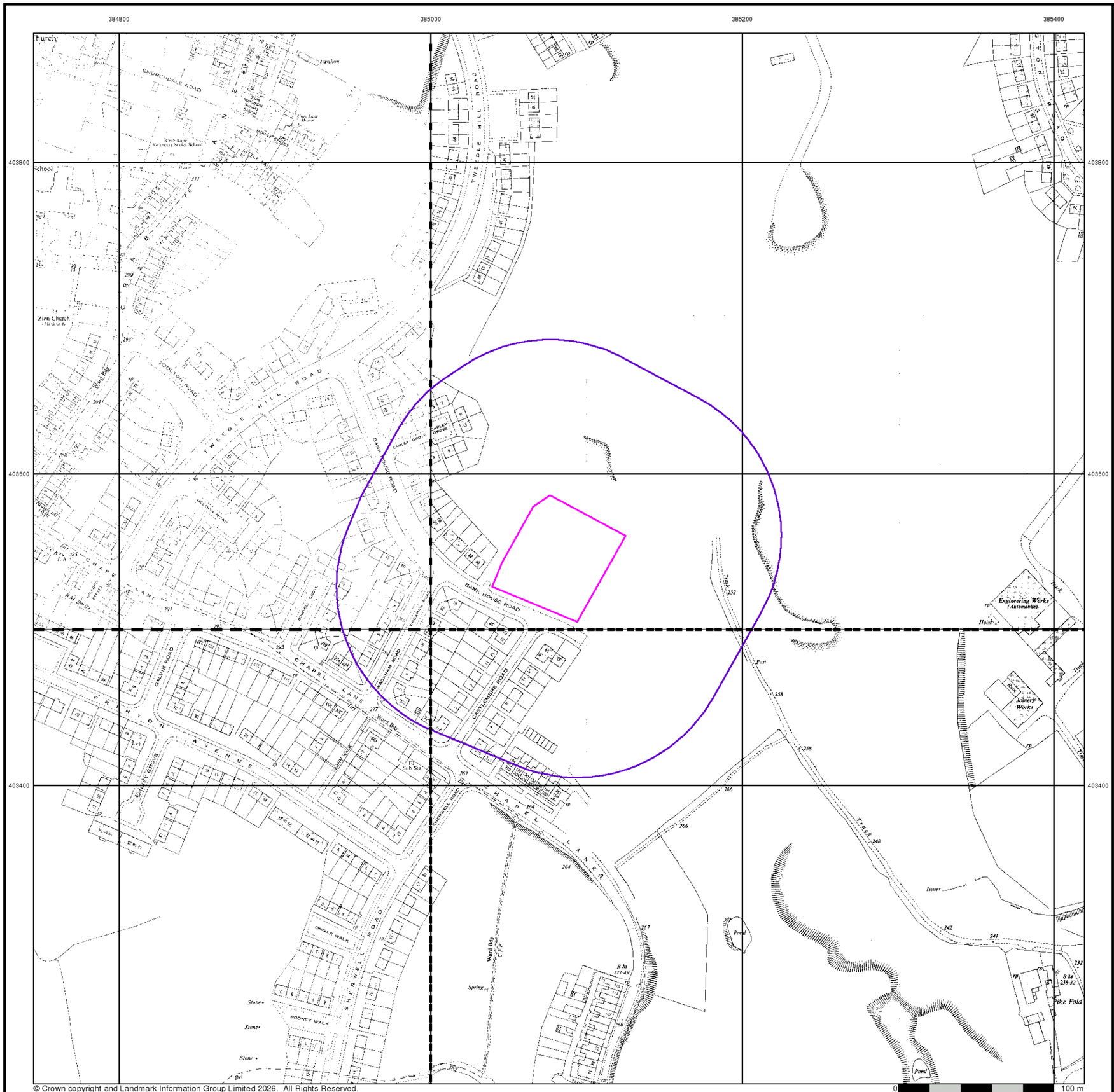
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Customer Ref:	ES261026
National Grid Reference:	385080, 403550
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Ordnance Survey Plan

Published 1955

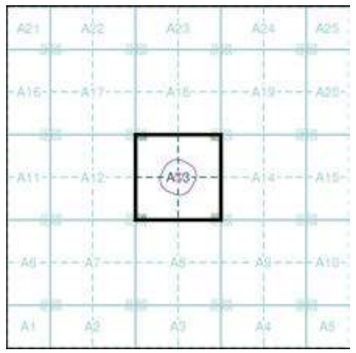
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SD8403NE 1955 1:1,250
SD8503NW 1955 1:1,250
SD8403SE 1955 1:1,250
SD8503SW 1955 1:1,250

Historical Map - Segment A13



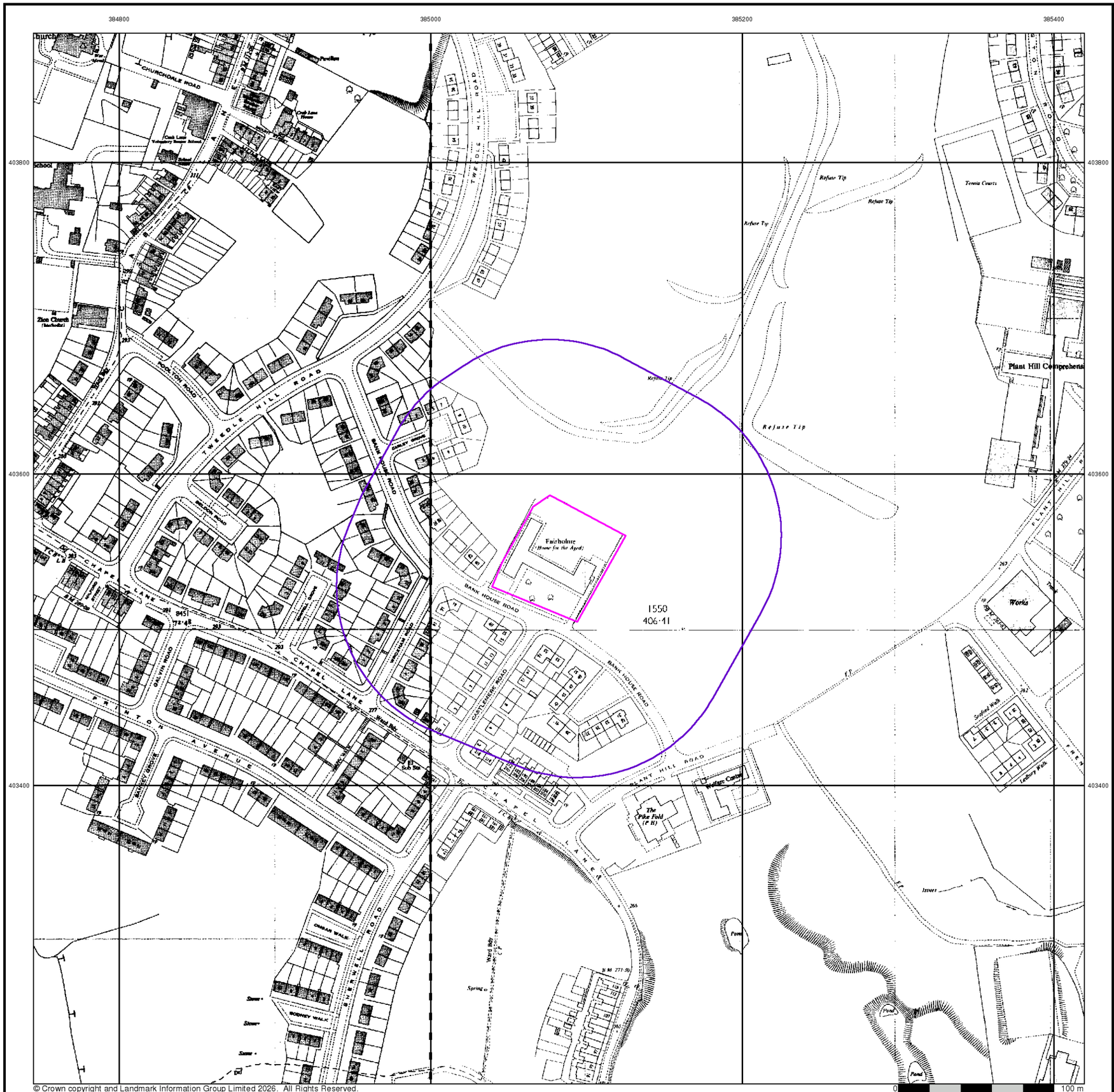
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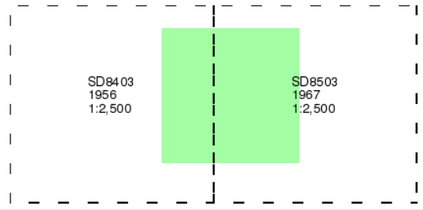
Ordnance Survey Plan

Published 1956 - 1967

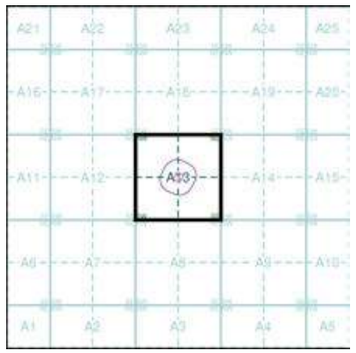
Source map scale - 1:2,500

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

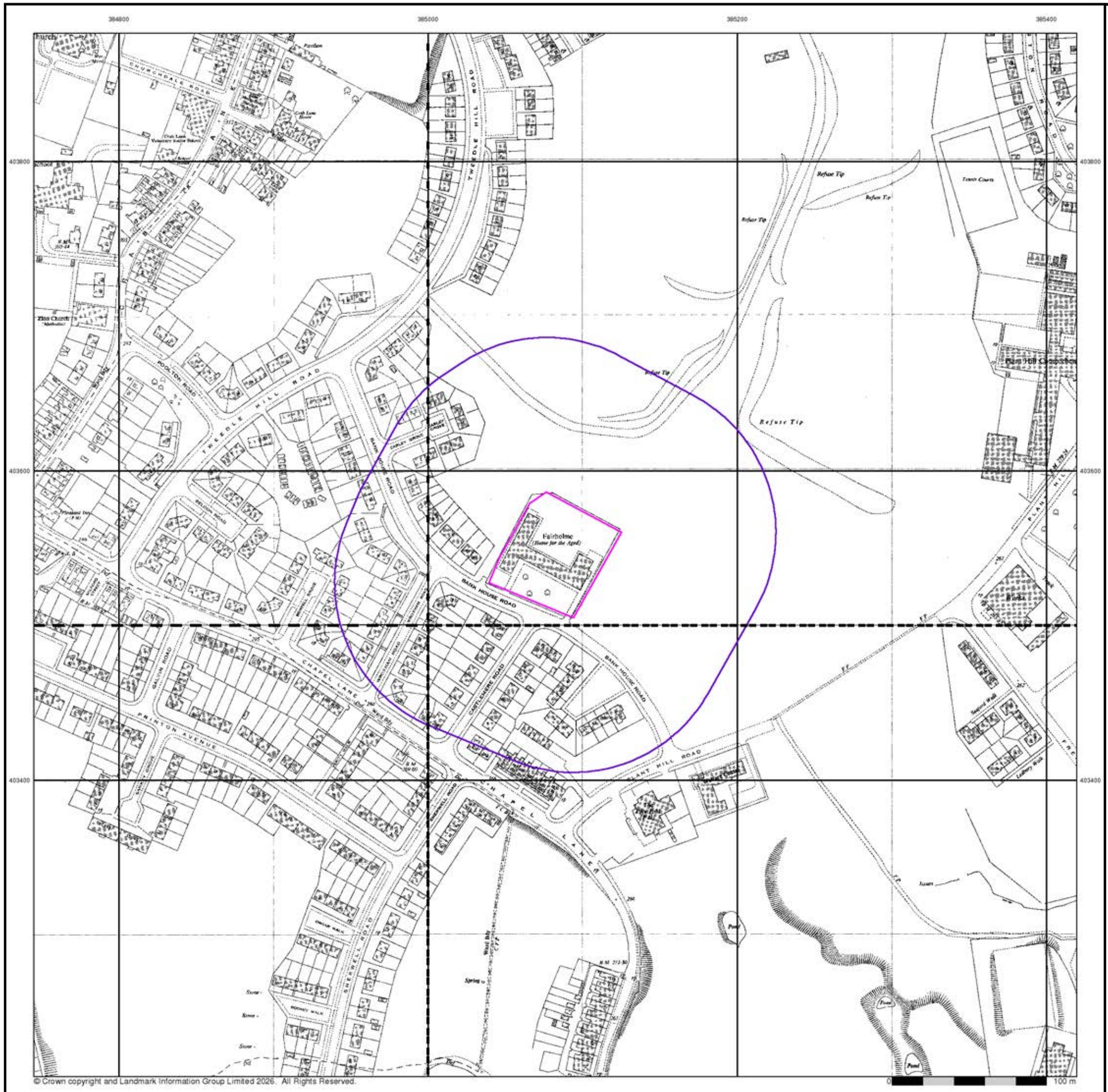
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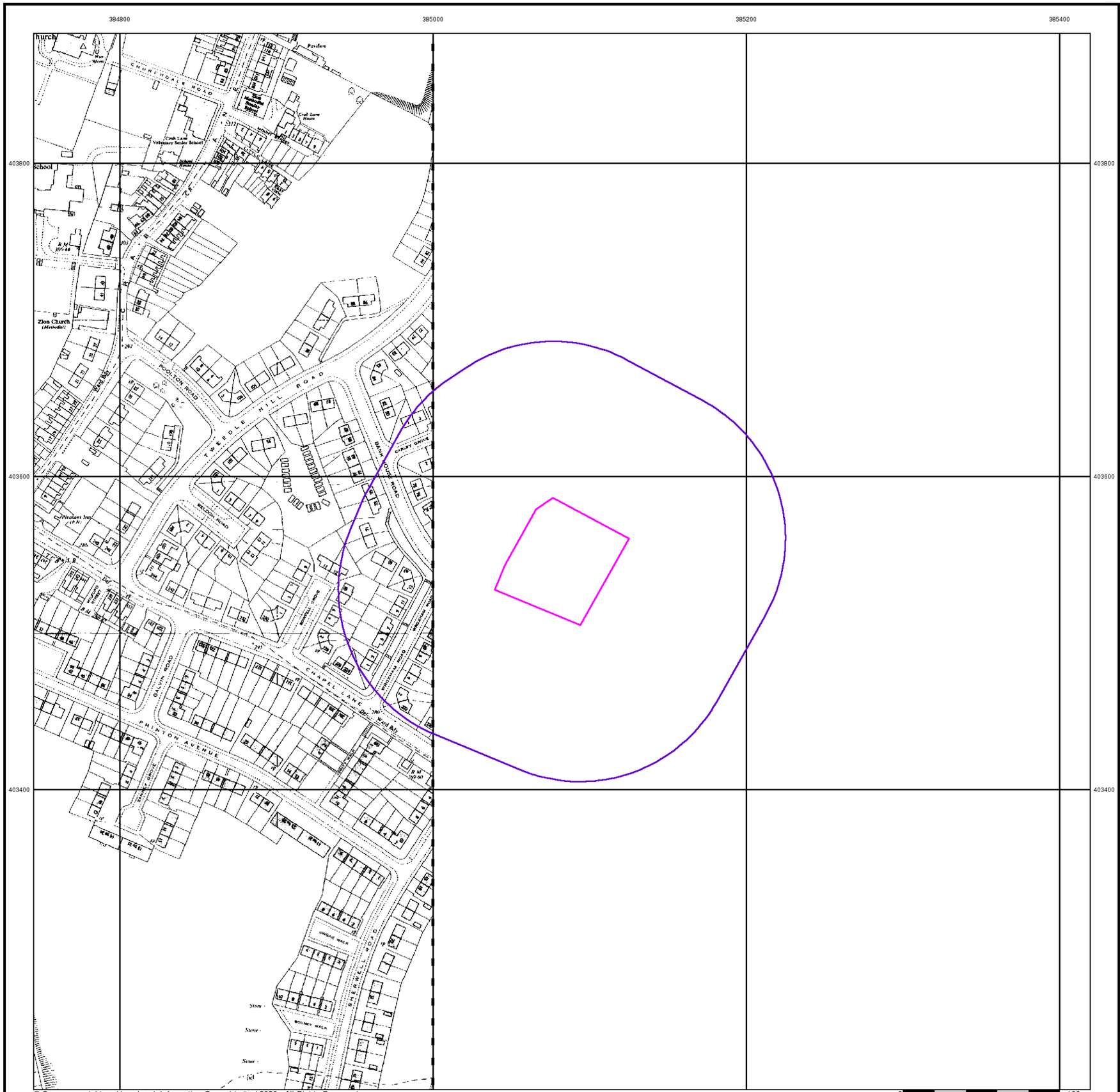
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384800
385000
385200
385400
403800
403600
403400
Church
CHURCHDALE ROAD
TWEEDALE HILL ROAD
Refuse Tip
Refuse Tip
Refuse Tip
Refuse Tip
Refuse Tip
Tennis Courts
Zion Chapel (Methodist)
POULTON ROAD
TWEEDALE HILL ROAD
BANK HOUSE ROAD
Fairholme (Home for the Aged)
CASTLESHORE ROAD
CHAPEL LANE
PRINTON AVENUE
GALTON ROAD
GRANT HILL ROAD
SHERWELL ROAD
Old Hall Farm
Issues
Pond
Pond
Pond
Stone
Stone
Stone
Spring
Weir
Sluice
F.P.
F.P.
F.P.
F.P.
Sewage Works
Ladbury Walk
Ordnance Survey Benchmark
Trig. Point
Telephone Box (T.B.)
Post Box
Fire Alarm
Public Convenience
Sub Station
Pillar Box
Gas Governor
Gas Valve
Manhole
Inspection Chamber
Boundary Stone
Milestone
Direction Stone
Fingerpost
Pump
Well
Spring
Weir
Sluice
Issues
Pond
Stone
Rockery
Wall
Fence
Hedge
Trees
Scrub
Rough Grass
Marsh
Reeds
Sand
Shingle
Slope
Cliff
Quarry
Refuse Tip
Sewage Works
Tennis Courts
Football Pitch
Golf Course
Allotments
Graves
Glasshouse
Coniferous Trees
Non-coniferous Trees
Orchard



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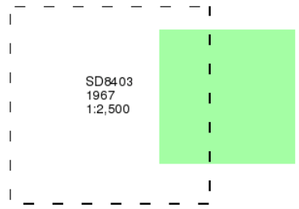
Ordnance Survey Plan

Published 1967

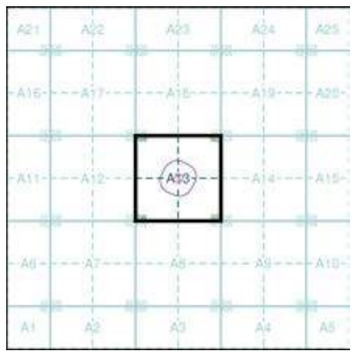
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	413842407_1_1
Customer Ref:	ES261026
National Grid Reference:	385080, 403550
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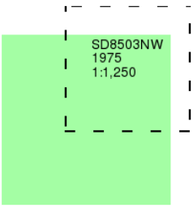
Supply of Unpublished Survey Information

Published 1975

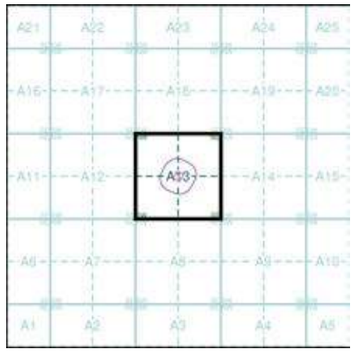
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



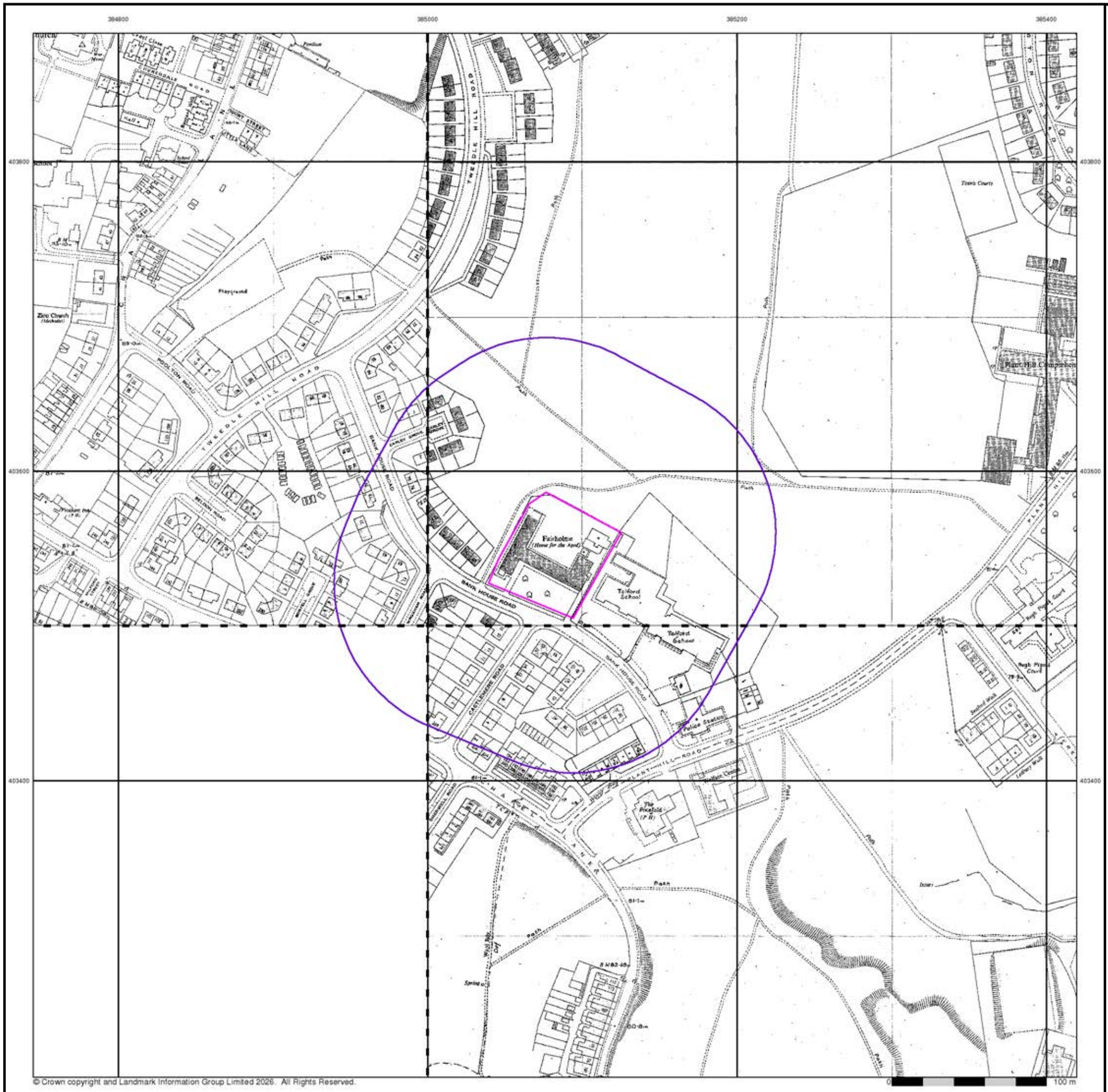
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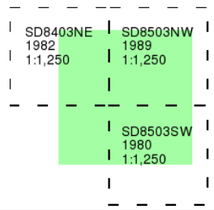
Additional SIMs

Published 1980 - 1989

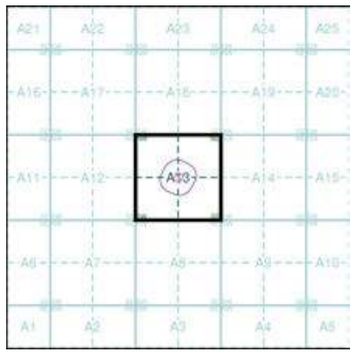
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

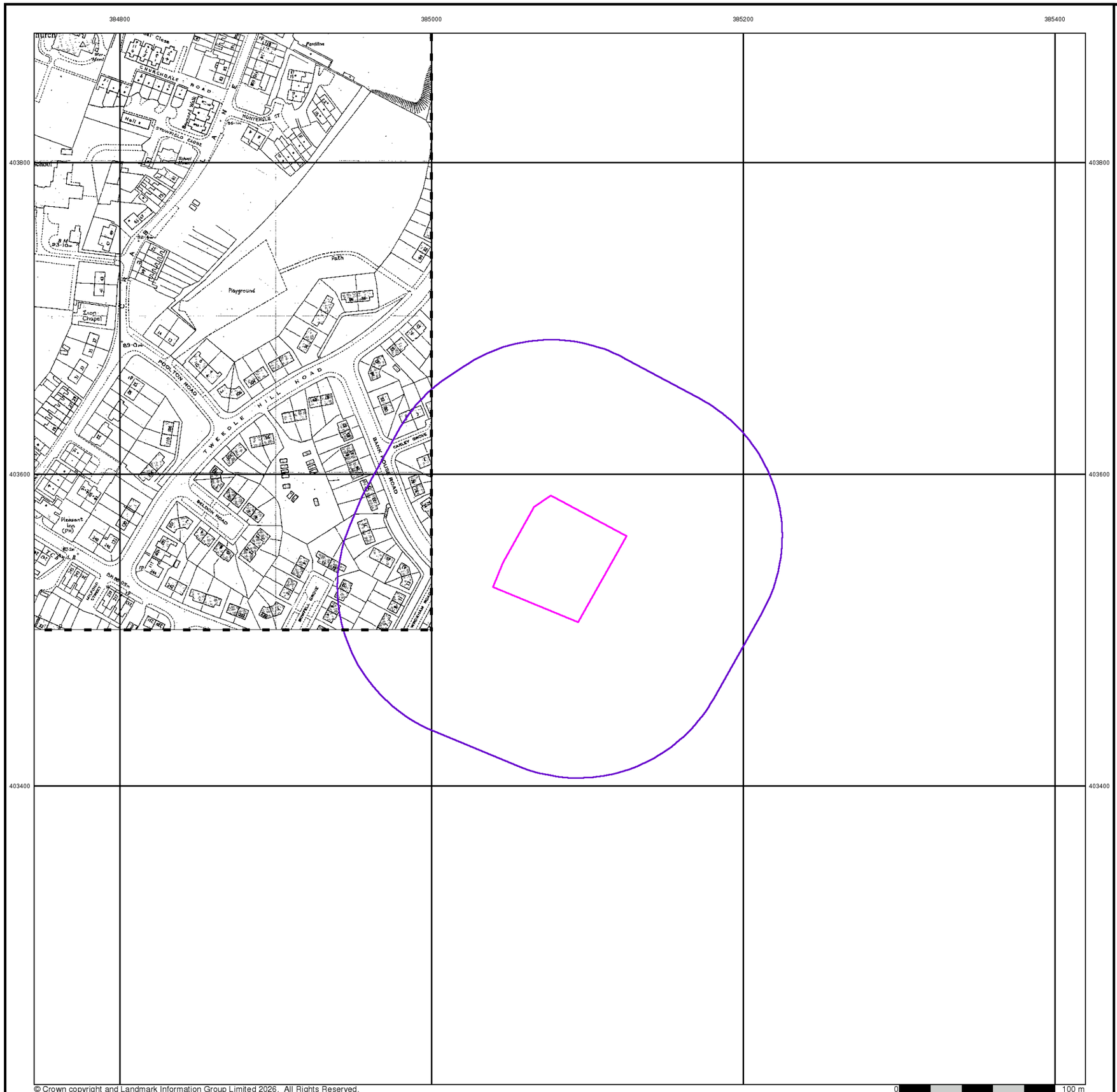
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National Grid Reference:	385080, 403550
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Site Area (Ha):	0.4
Search Buffer (m):	100

Site Details

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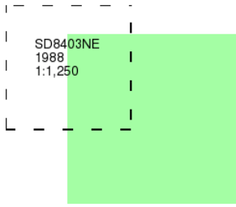
Additional SIMs

Published 1988

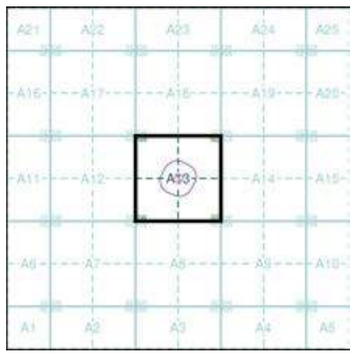
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

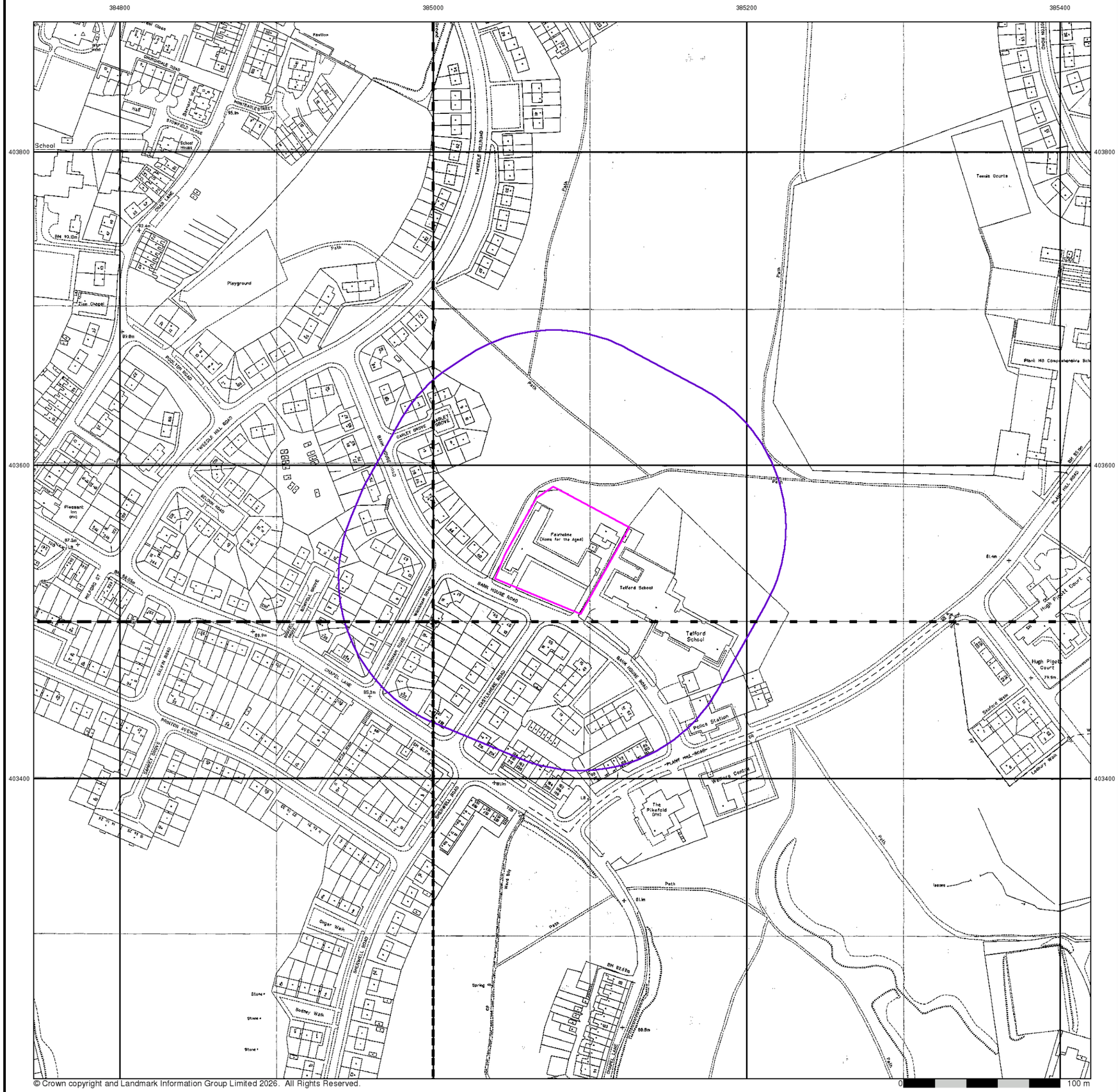
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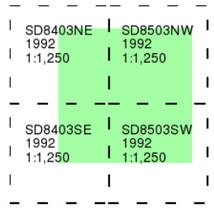
Large-Scale National Grid Data

Published 1992

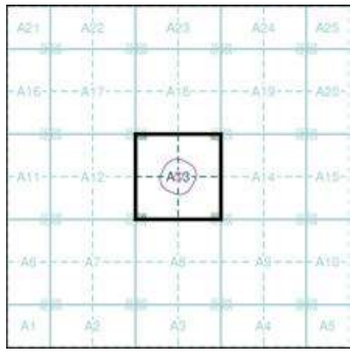
Source map scale - 1:1,250

'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)



Historical Map - Segment A13

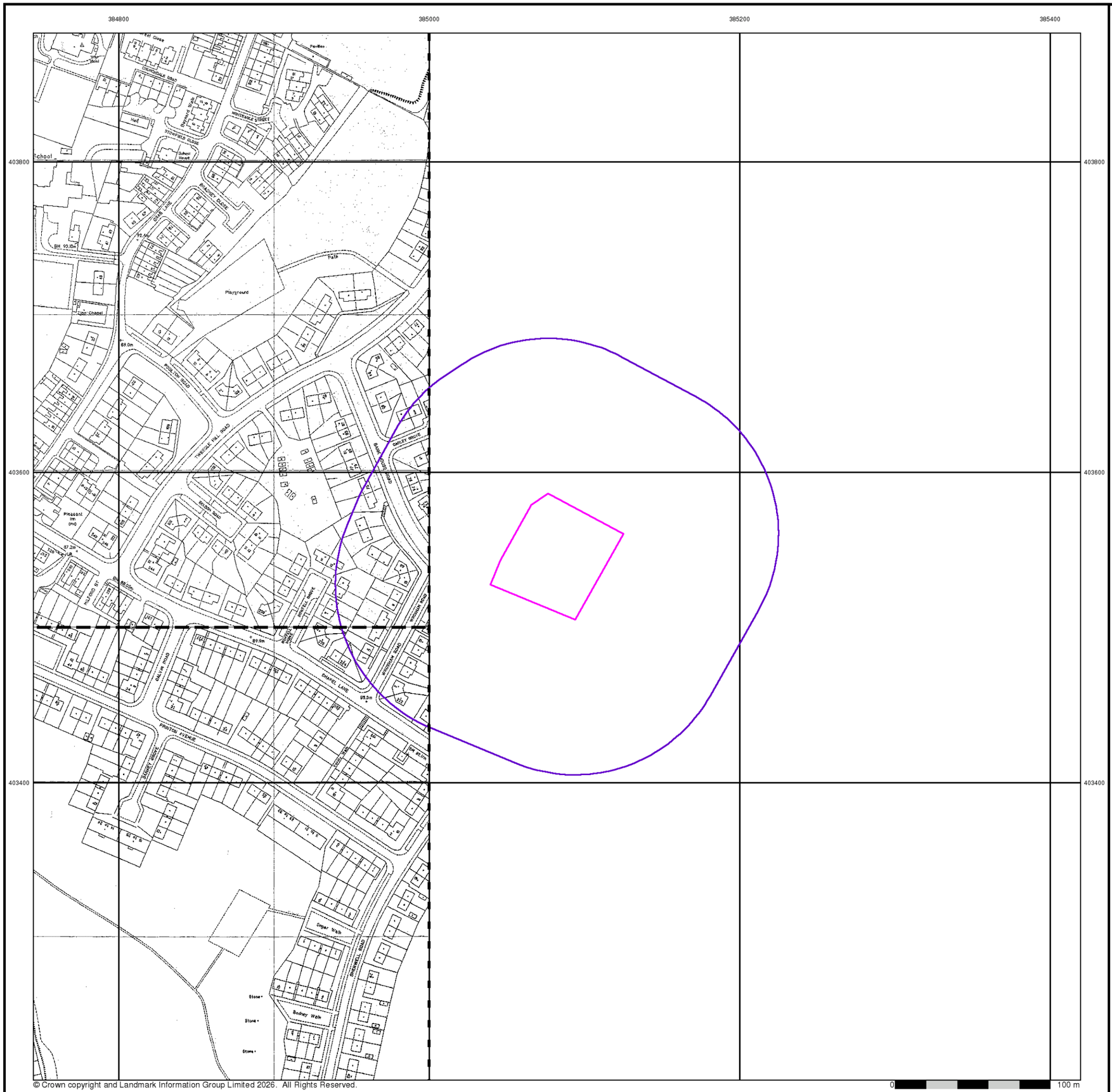


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Customer Ref:	ES261026
National Grid Reference:	385080, 403550
Slice:	A
Site Area (Ha):	0.4
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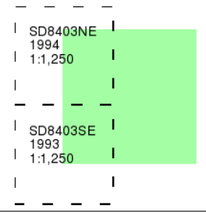
Large-Scale National Grid Data

Published 1993 - 1994

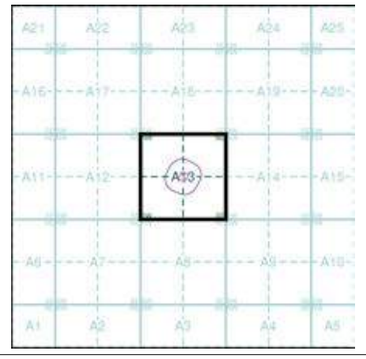
Source map scale - 1:1,250

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Map Name(s) and Date(s)



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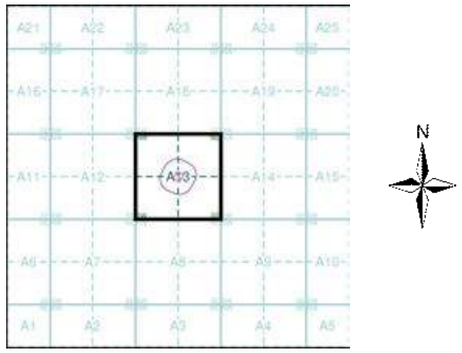
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Historical Aerial Photography

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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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Glasshouse
Direction of Flow of Water
Shingle
Sand
Pylon
Electricity
Sloping Masonry
Pylon
Electricity Transmission Line
Pole
Cutting
Embankment
Standard Gauge Multiple Track
Standard Gauge Single Track
Road Under
Road Over
Level Crossing
Foot Bridge
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

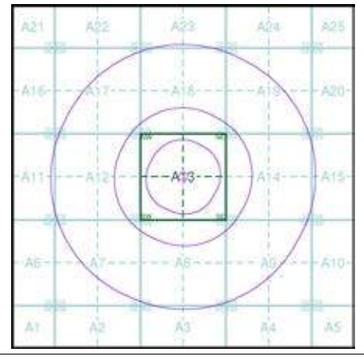
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848	3
Cheshire	1:10,560	1882	4
Lancashire And Furness	1:10,560	1894	5
Lancashire And Furness	1:10,560	1910	6
Lancashire And Furness	1:10,560	1923	7
Lancashire And Furness	1:10,560	1932 - 1933	8
Lancashire And Furness	1:10,560	1938	9
Ordnance Survey Plan	1:10,000	1956	10
Ordnance Survey Plan	1:10,000	1966 - 1968	11
Manchester	1:25,000	1975	12
Ordnance Survey Plan	1:10,000	1978 - 1979	13
Ordnance Survey Plan	1:10,000	1982 - 1986	14
Ordnance Survey Plan	1:10,000	1990	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2026	18

Historical Map - Slice A



Order Details

Order Number: 413842407_1_1
Customer Ref: ES261026
National Grid Reference: 385080, 403550
Slice: A
Site Area (Ha): 0.4
Search Buffer (m): 1000

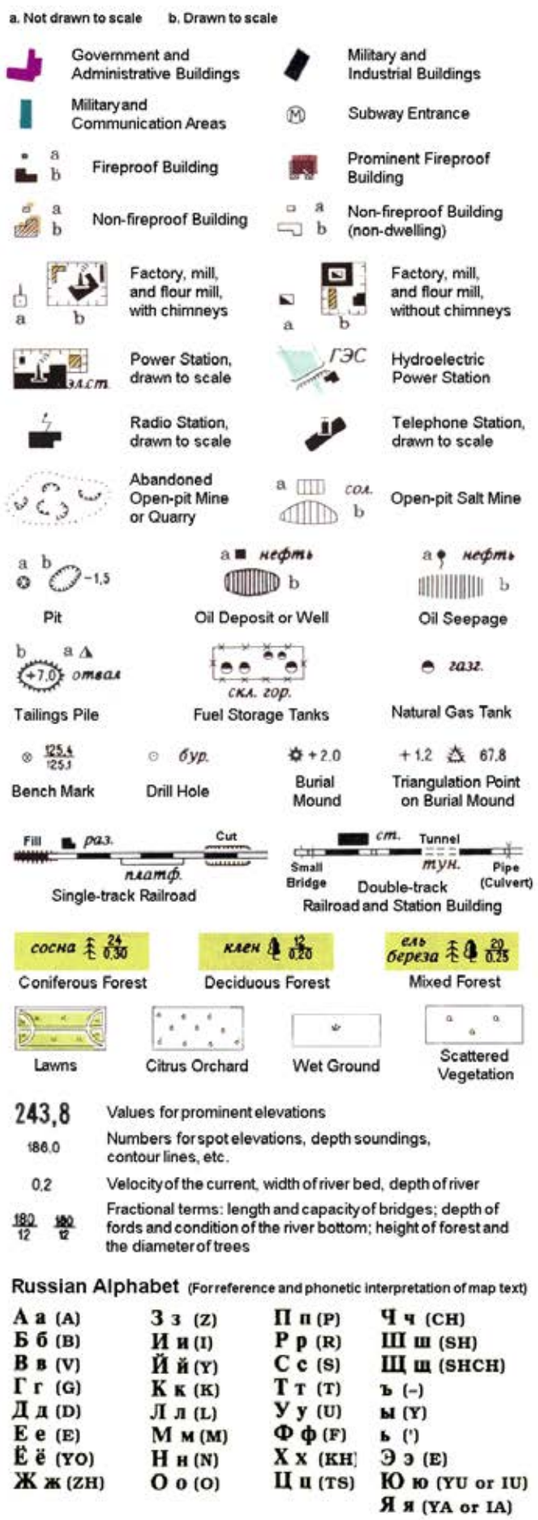
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Russian Military Mapping Legends

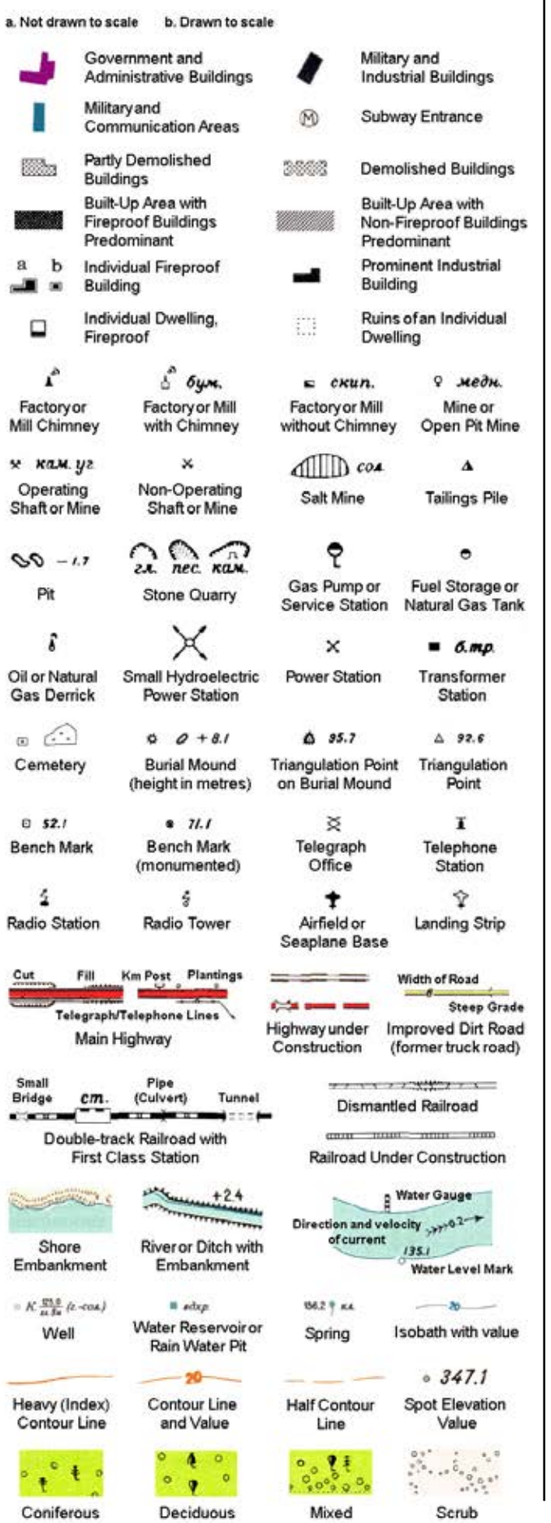
1:5,000 and 1:10,000 mapping



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



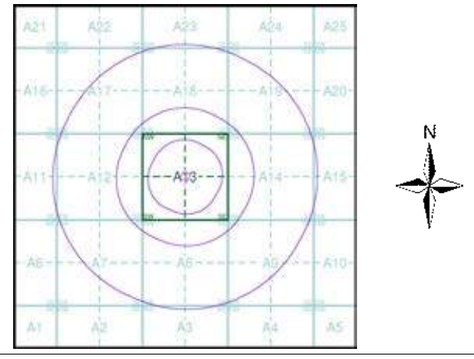
Key to Numbers on Mapping

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848	3
Cheshire	1:10,560	1882	4
Lancashire And Furness	1:10,560	1894	5
Lancashire And Furness	1:10,560	1910	6
Lancashire And Furness	1:10,560	1923	7
Lancashire And Furness	1:10,560	1932 - 1933	8
Lancashire And Furness	1:10,560	1938	9
Ordnance Survey Plan	1:10,000	1956	10
Ordnance Survey Plan	1:10,000	1966 - 1968	11
Manchester	1:25,000	1975	12
Ordnance Survey Plan	1:10,000	1978 - 1979	13
Ordnance Survey Plan	1:10,000	1982 - 1986	14
Ordnance Survey Plan	1:10,000	1990	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2026	18

Russian Map - Slice A



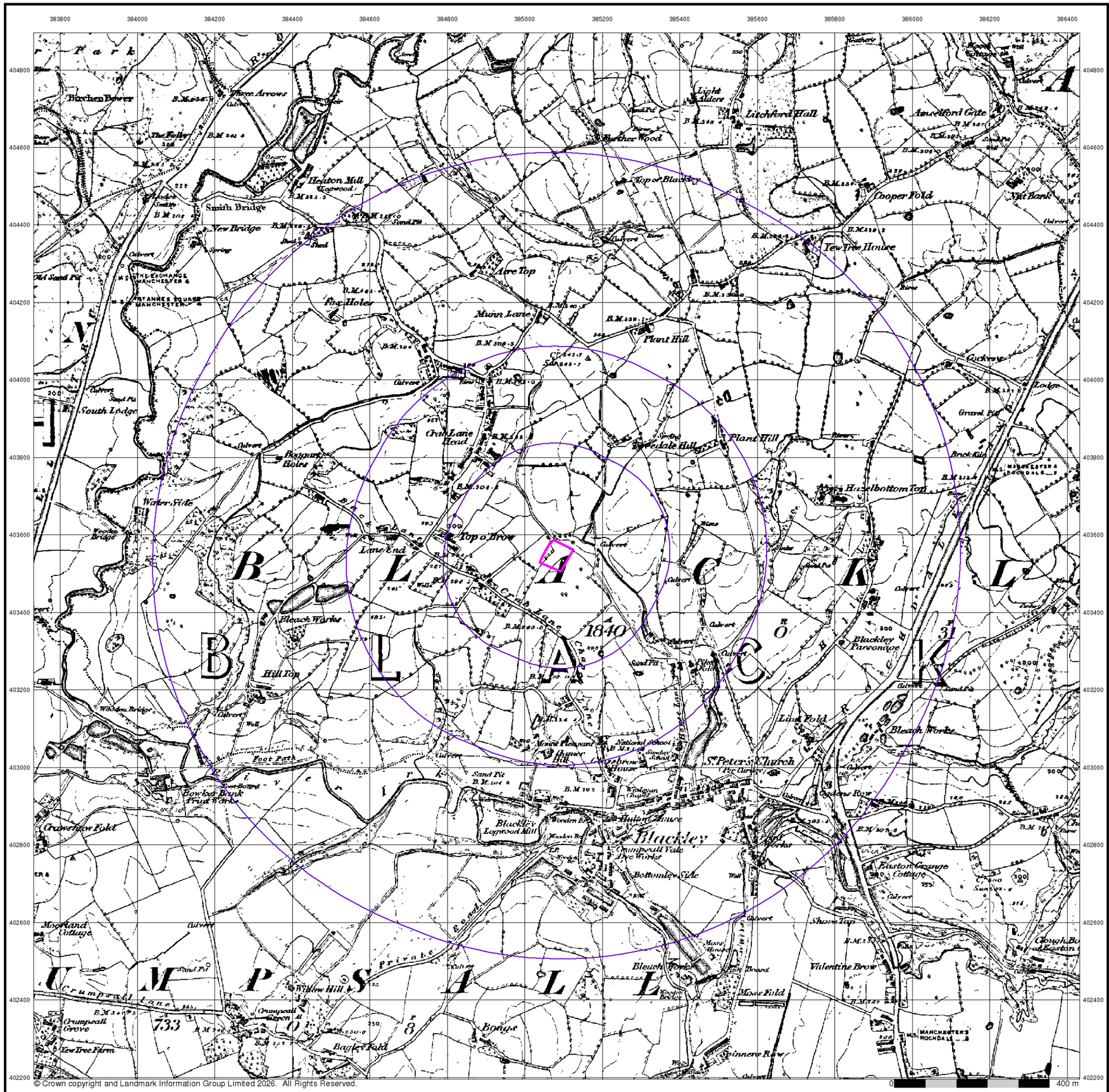
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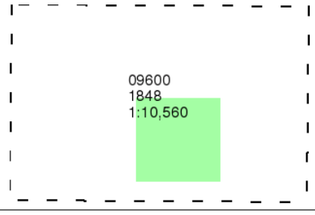
Lancashire And Furness

Published 1848

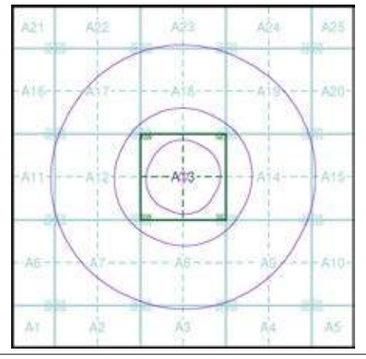
Source map scale - 1:10,560

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



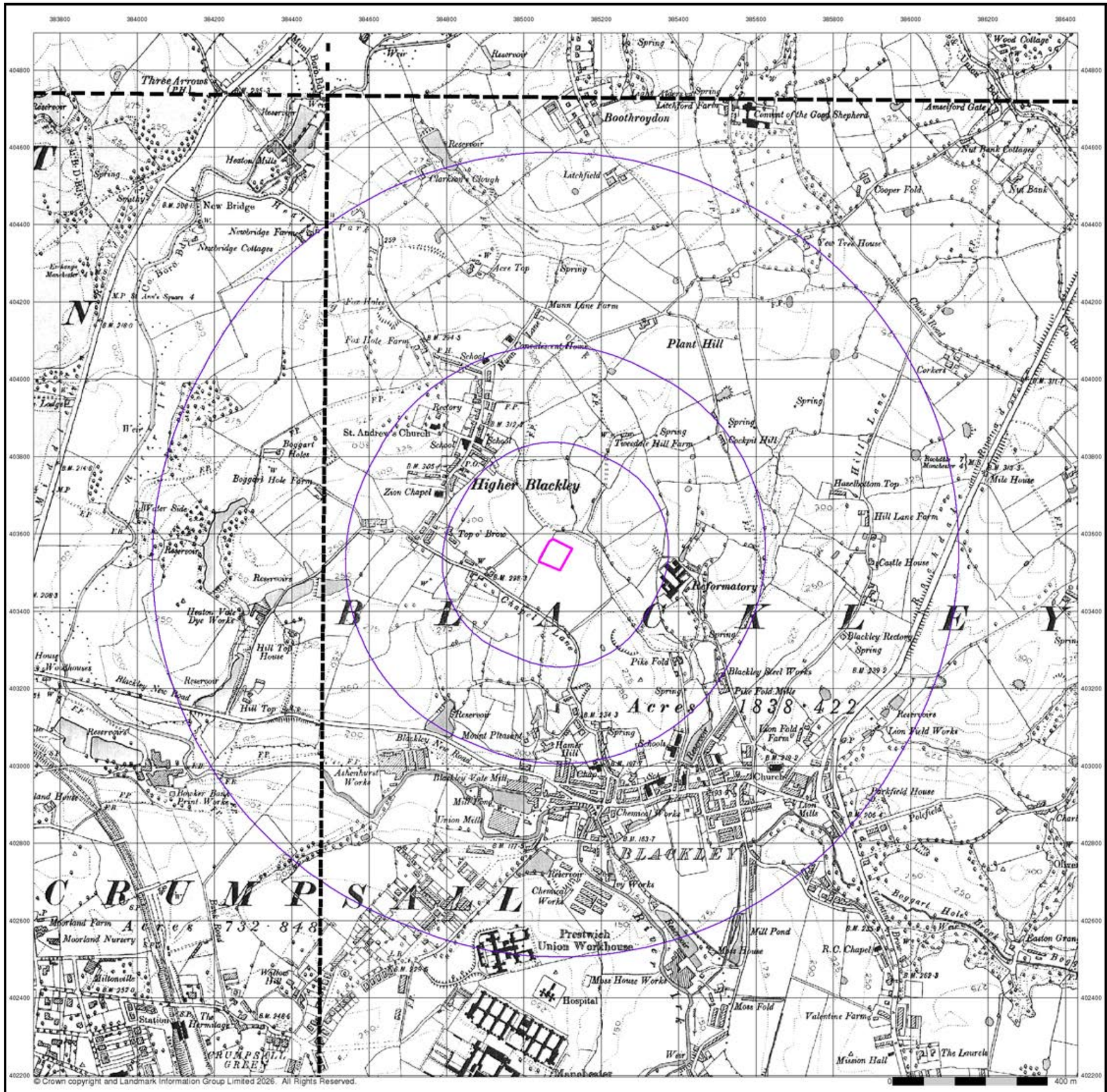
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Lancashire And Furness

Published 1894

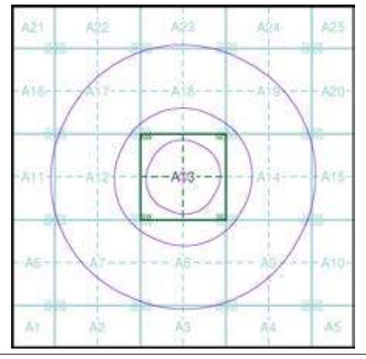
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Map Name(s) and Date(s)

096NW 1894 1:10,560	096NE 1894 1:10,560
096SW 1894 1:10,560	096SE 1894 1:10,560

Historical Map - Slice A



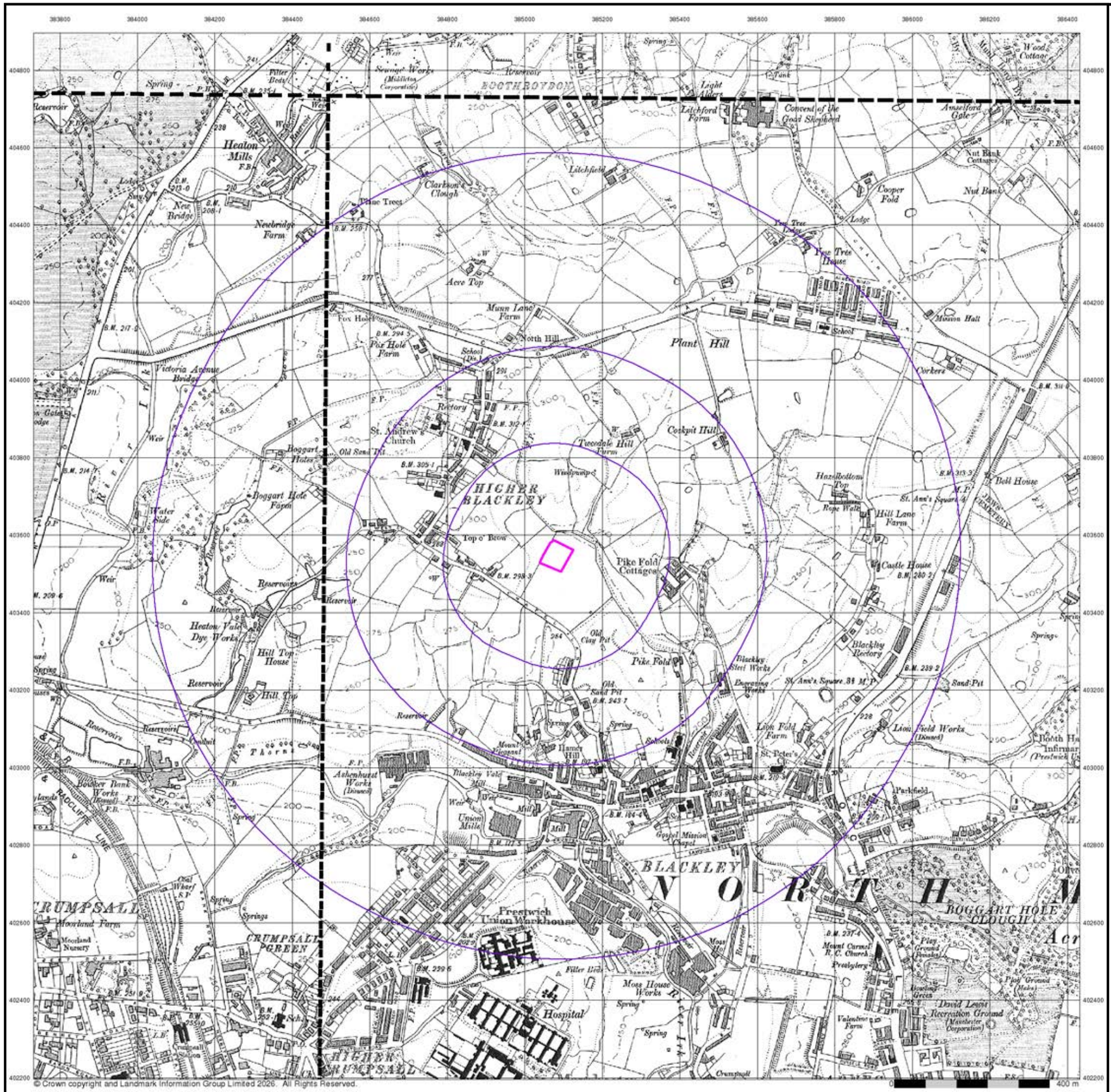
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Lancashire And Furness

Published 1910

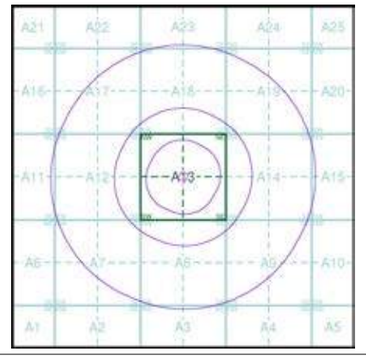
Source map scale - 1:10,560

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Map Name(s) and Date(s)

096NW 1910 1:10,560	096NE 1910 1:10,560
096SW 1910 1:10,560	096SE 1910 1:10,560

Historical Map - Slice A



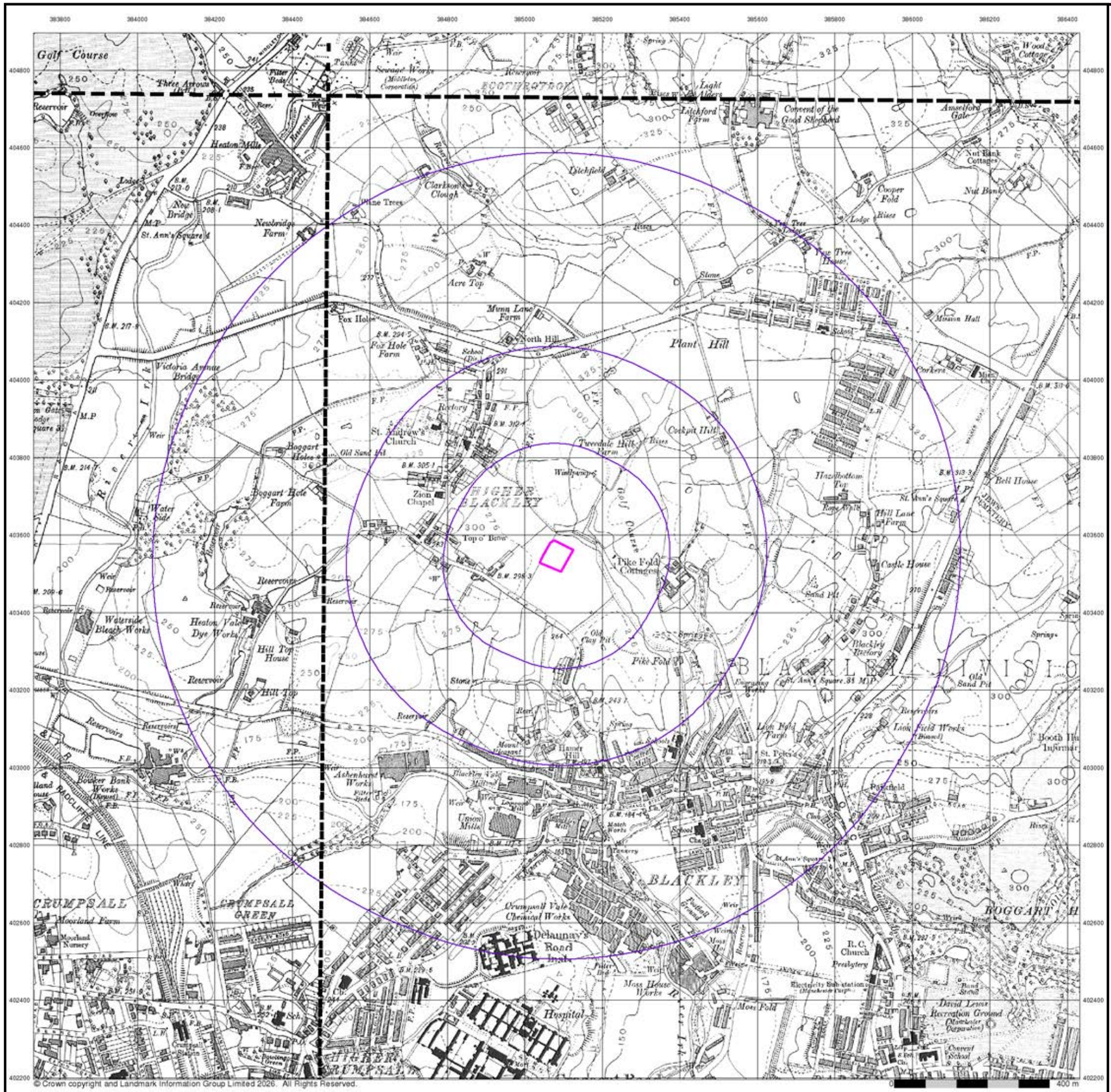
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Lancashire And Furness

Published 1923

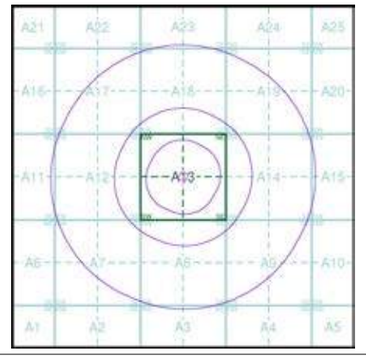
Source map scale - 1:10,560

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)

096NW 1923 1:10,560	096NE 1923 1:10,560
096SW 1923 1:10,560	096SE 1923 1:10,560

Historical Map - Slice A



Order Details

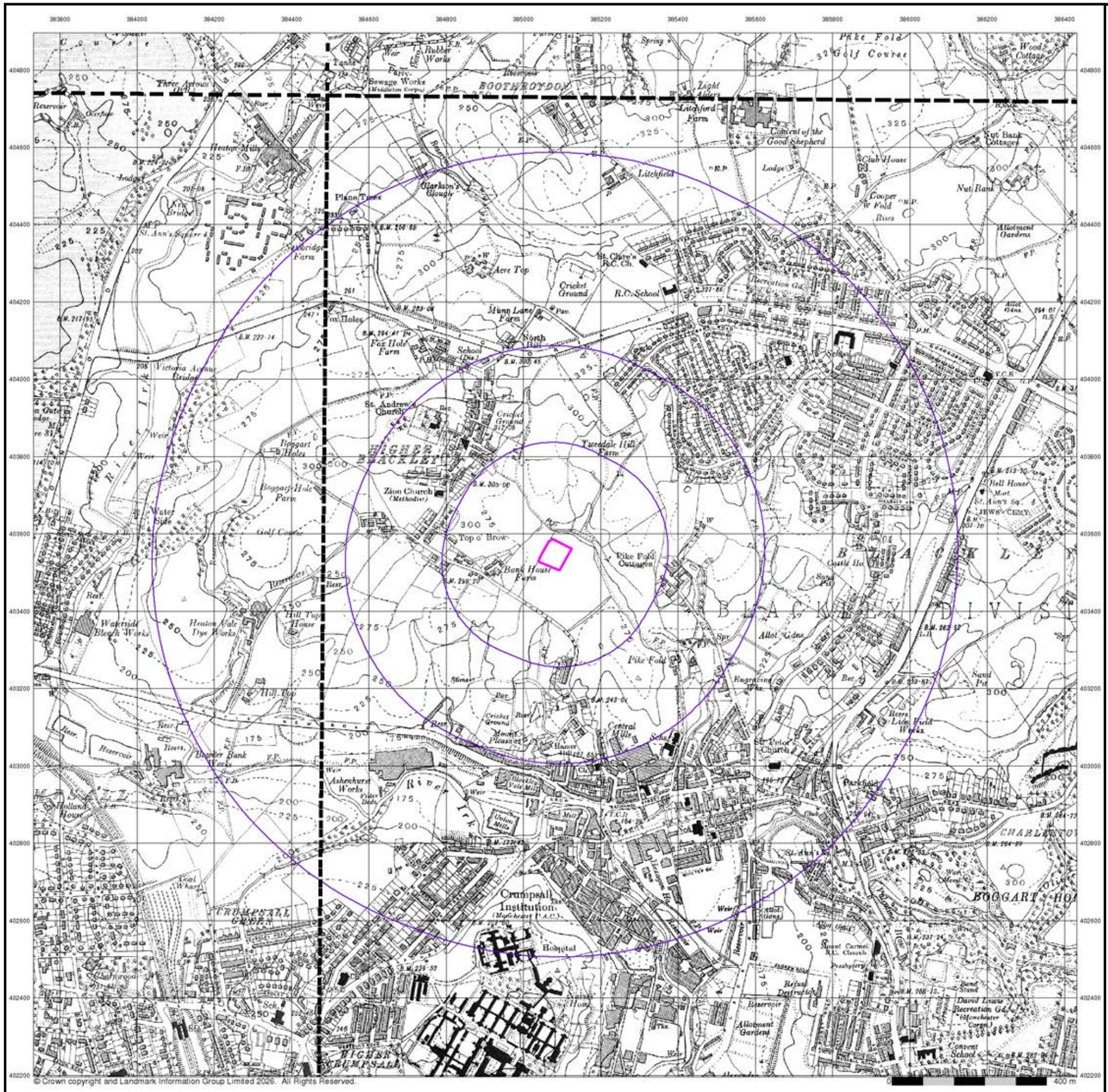
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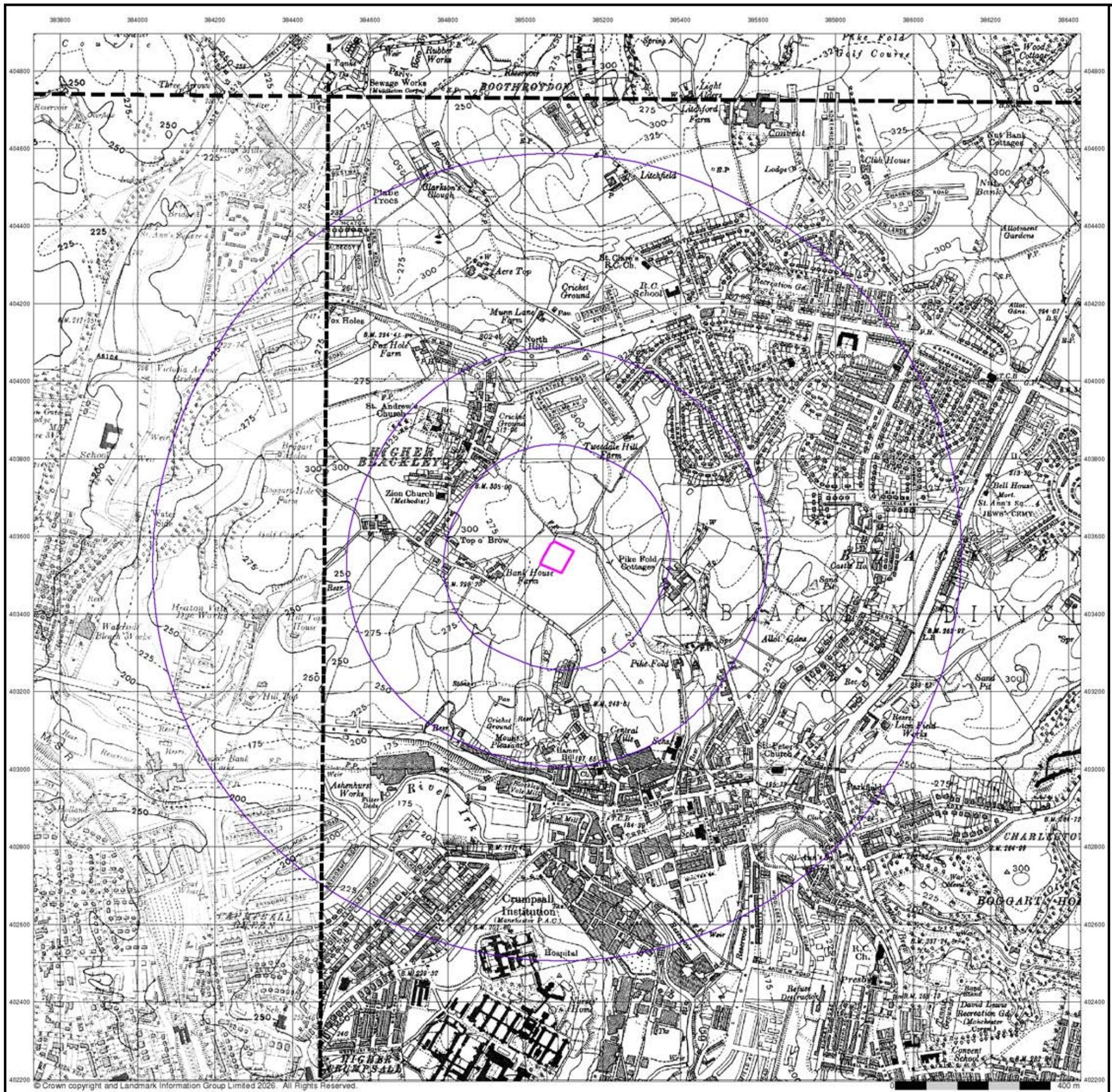
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402200
BOOTHROYDON
HIGHER BLACKLEY
BLACKLEY DIVISION
CRUMPSALL GREEN
BOGGART HOLE
HIGHER CRUMPSALL
Three Arrows Hotel
Rubber Works
Sewage Works
Pike Fold Golf Course
Litchford Farm
Convent of the Good Shepherd
Heaton Mills
Clarkson's Clough
Litchfield
Club House
Nut Bank
Cooper Fold
Plane Trees
Acre Top
St. Clare's R.C. Ch.
Cricket Ground
R.C. School
Recreation Gd.
Allotment Gardens
Munn Lane Farm
North Hill
Fox Hole Farm
Victoria Avenue Bridge
St. Andrew's Church
Boggart Holes
Tweedale Hill Farm
Zion Church (Methodist)
Boggart Hole Farm
Top o' Brow
Bank House Farm
Pike Fold Cottages
Hill Top House
Waterside Bleach Works
Heaton Vale Dye Works
Hill Top
Doppler Bank Works
Ashenhurst Works
Union Mills
Crumpsall Institution (Manchester I.A.C.)
Hospital
Mount Pleasant
Central Mills
St. Peter's Church
Bell House
Refuse Destructor
Allotment Gardens
Convent School
River Irk
Water Side
Golf Course
Reservoir
Weir
Rest.
Sch.
Ch.
Bk.
Pav.
Sta.
Mkt.
Cem.
Gdns.
Allot.
Engraving Wks.
Laundry
Mill
Hosp.
Refuse Destructor
Recreation Gd.
Bowling Green
Tennis Courts
Sand Pit
Stone Pit
Quarry
Spring
Wood Cottage
Lodge
Club House
Nurses' Home
Allotment Gardens
Parkfield
Mount Carmel R.C. Church
Presbytery
Bandstand
David Lewis Recreation Gd.
Convent School
Laundry
Engraving Works
Boiler Field Works
Hamer
Mount Pleasant
Holland House
Coal Wharf
Sand Pit
Stone Pit
Allot. Gdns.
Allotment Garden
Reservoir
Refuse Destructor



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Lancashire And Furness

Published 1938

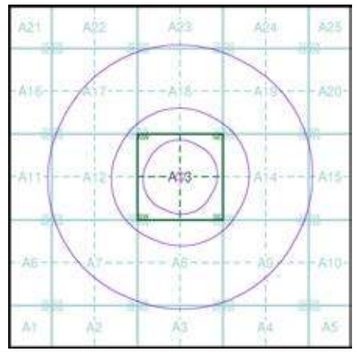
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

096NW 1938 1:10,560	096NE 1938 1:10,560
096SW 1938 1:10,560	096SE 1938 1:10,560

Historical Map - Slice A



Order Details

Order Number:	413842407_1_1
Customer Ref:	ES261026
National Grid Reference:	385080, 403550
Slice:	A
Site Area (Ha):	0.4
Search Buffer (m):	1000

Site Details

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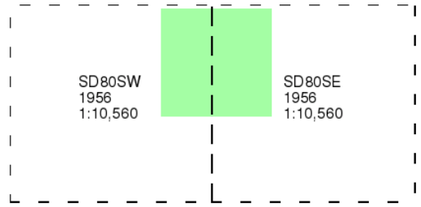
Ordnance Survey Plan

Published 1956

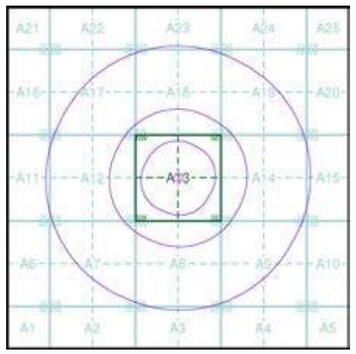
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

Order Number:	413842407_1_1
Customer Ref:	ES261026
National Grid Reference:	385080, 403550
Slice:	A
Site Area (Ha):	0.4
Search Buffer (m):	1000

Site Details

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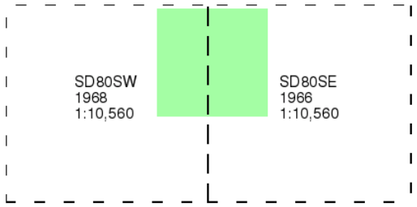
Ordnance Survey Plan

Published 1966 - 1968

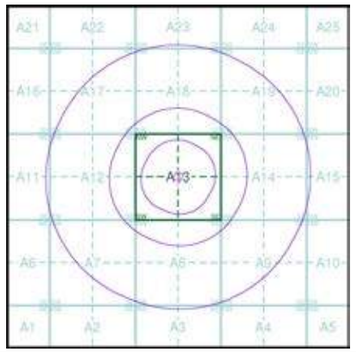
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

Order Number:	413842407_1_1
Customer Ref:	ES261026
National Grid Reference:	385080, 403550
Slice:	A
Site Area (Ha):	0.4
Search Buffer (m):	1000

Site Details

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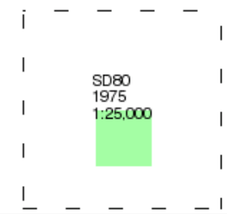
Manchester

Published 1975

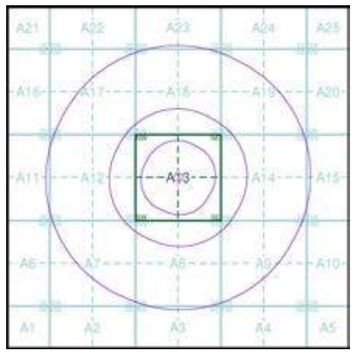
Source map scale - 1:25,000

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)



Russian Map - Slice A



Order Details

Order Number:	413842407_1_1
Customer Ref:	ES261026
National Grid Reference:	385080, 403550
Slice:	A
Site Area (Ha):	0.4
Search Buffer (m):	1000

Site Details

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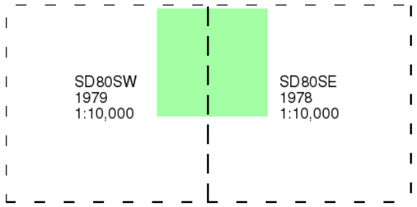
Ordnance Survey Plan

Published 1978 - 1979

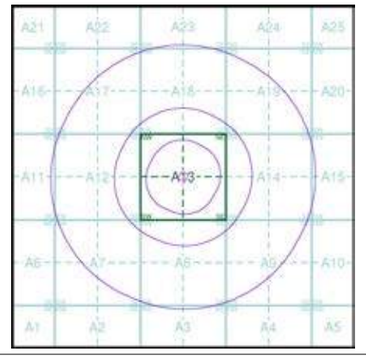
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	413842407_1_1
Customer Ref:	ES261026
National Grid Reference:	385080, 403550
Slice:	A
Site Area (Ha):	0.4
Search Buffer (m):	1000

Site Details

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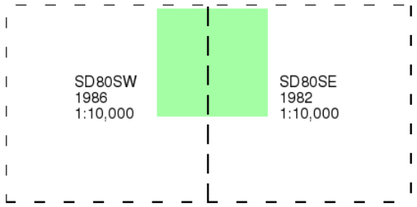
Ordnance Survey Plan

Published 1982 - 1986

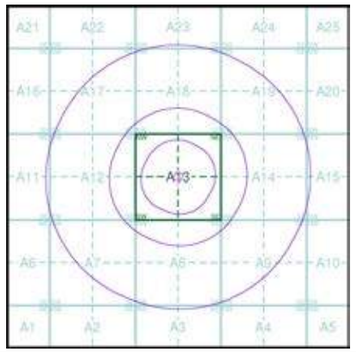
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

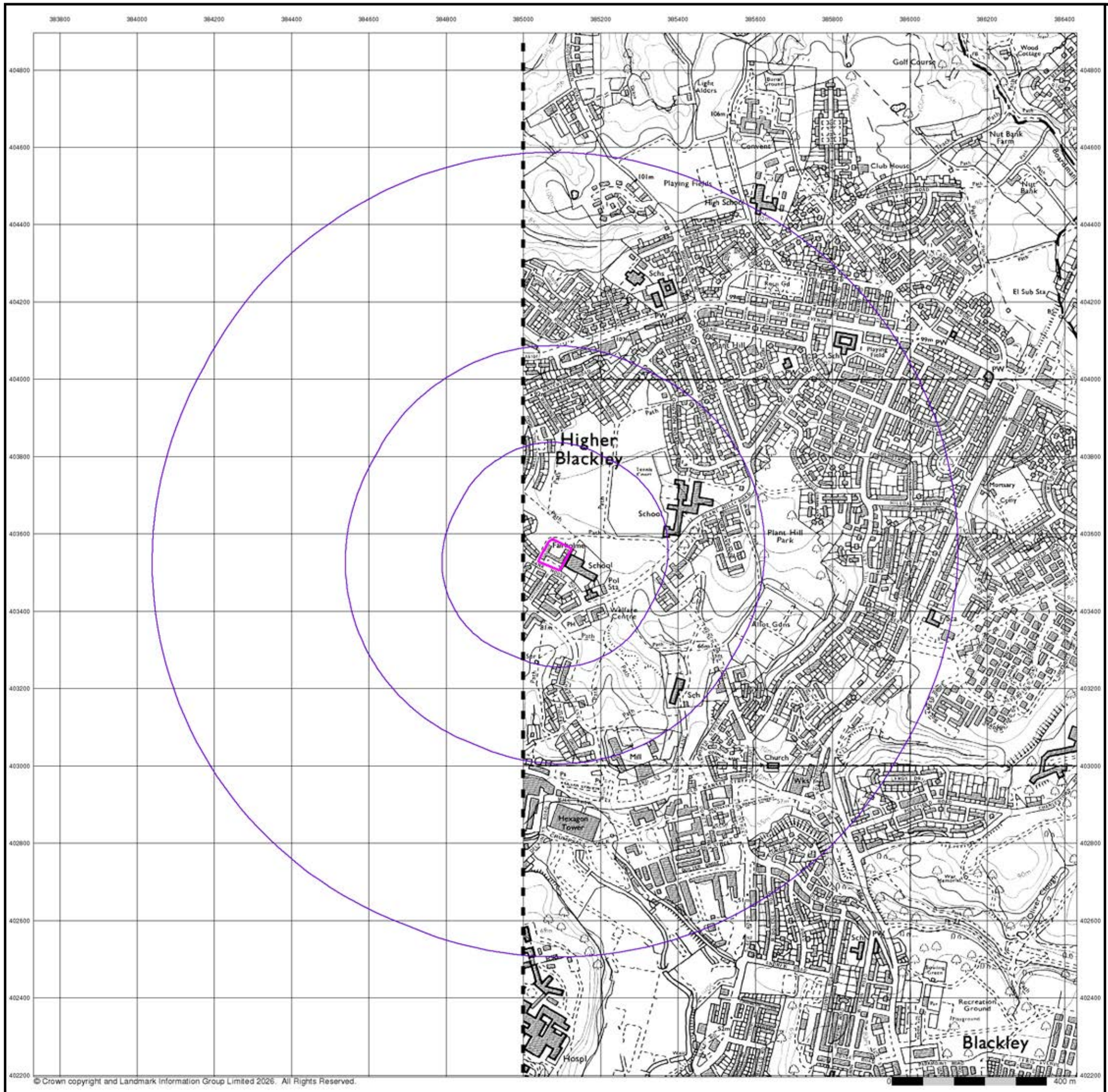
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Search Buffer (m):	1000

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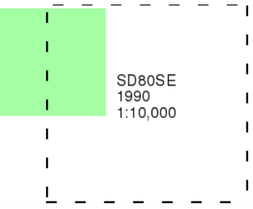
Ordnance Survey Plan

Published 1990

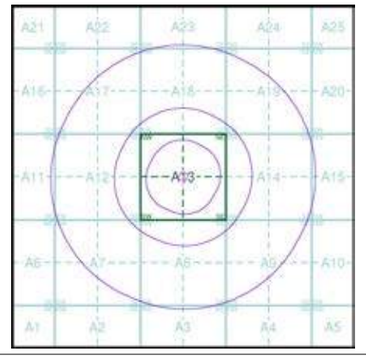
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	413842407_1_1
Customer Ref:	ES261026
National Grid Reference:	385080, 403550
Slice:	A
Site Area (Ha):	0.4
Search Buffer (m):	1000

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Higher Blackley
Crumpsall
Blackley
Pike Fold Golf Course
Plant Hill Park
Blackley Cemetery
Crematorium
Cemetery
Nut Bank Farm
Nut Bank
Club House
Convent
Presby
School
Playing Fields
Recs Gd
Playing Field
Cricket Ground
Sports Ground
Recreation Ground
Depot
Works
Hospital
Welfare Centre
Burial Ground
Litchford Hall Cottage
Light Alders
Wood Cottage
Lodge
Car Park
Overflow
New Bridge
Victoria Avenue Bridge
Pipe Line
Blackley Forest
Hotel
Crematorium
Reservoir
Overflows
Sluice
Wks
Works
Pol Sta
Fire Sta
Abbot Gdns
War Meml
Oliver Clough
Alkrington Walk
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Co Const Boro Const Bdy
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Springs
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Field
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Street
Avenue
Drive
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Crescent
Terrace
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Yard



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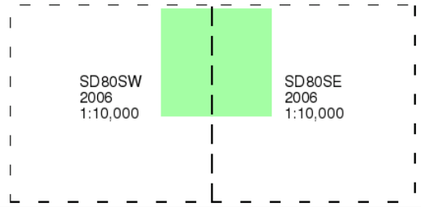
10k Raster Mapping

Published 2006

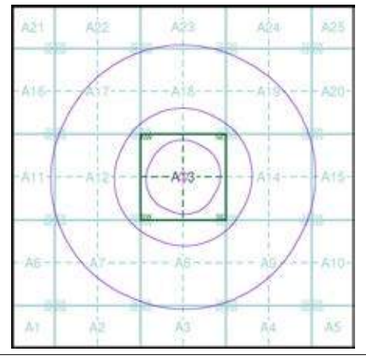
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	413842407_1_1
Customer Ref:	ES261026
National Grid Reference:	385080, 403550
Slice:	A
Site Area (Ha):	0.4
Search Buffer (m):	1000

Site Details

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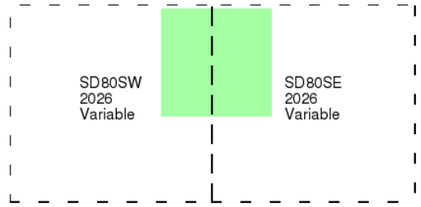
VectorMap Local

Published 2026

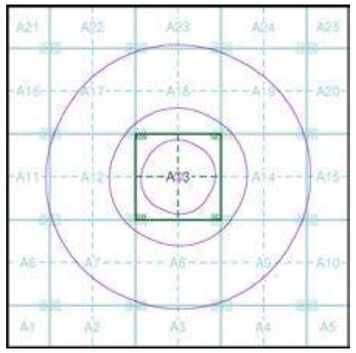
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

Order Number:	413842407_1_1
Customer Ref:	ES261026
National Grid Reference:	385080, 403550
Slice:	A
Site Area (Ha):	0.4
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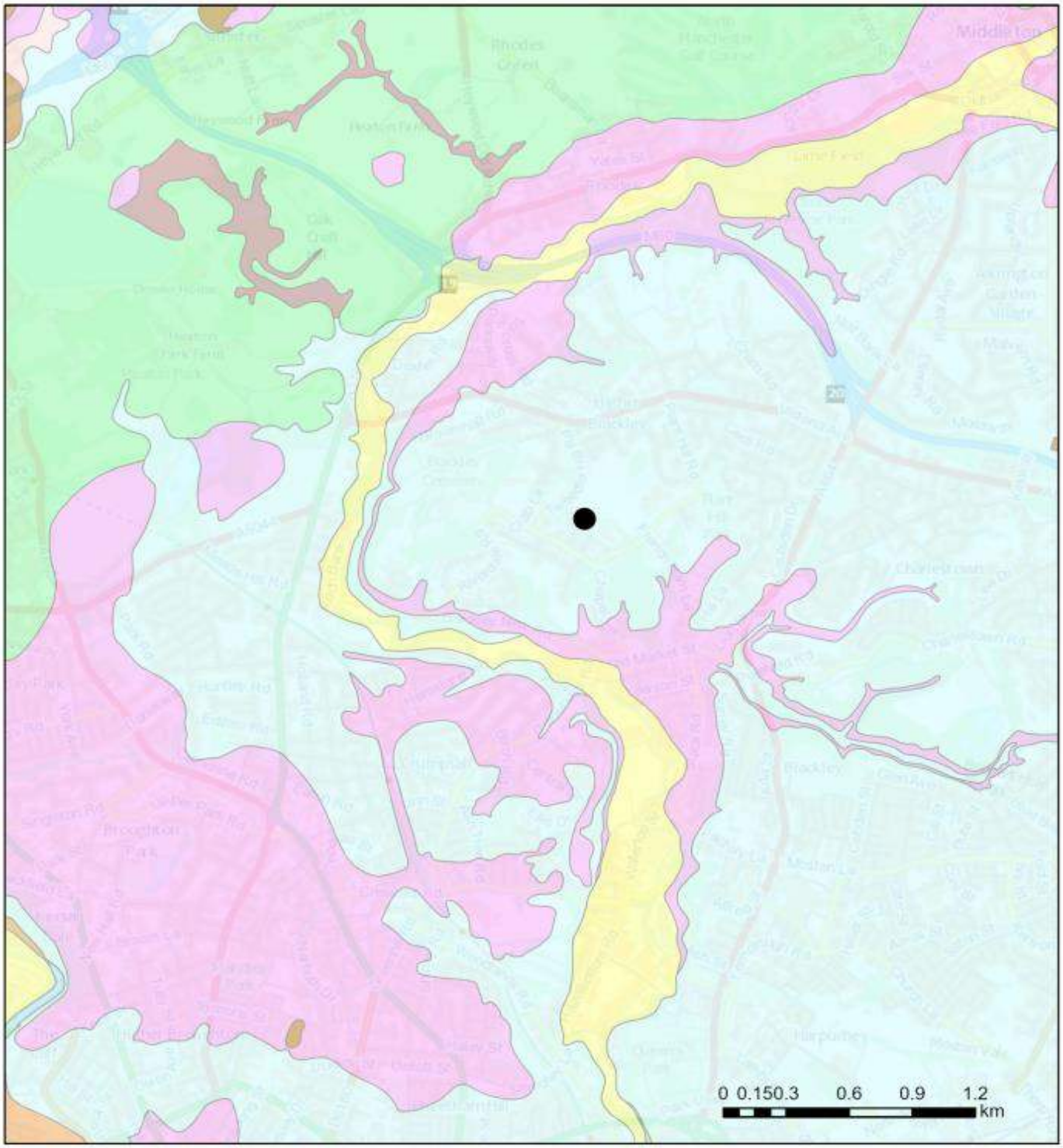
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Appendix D – Geological Maps

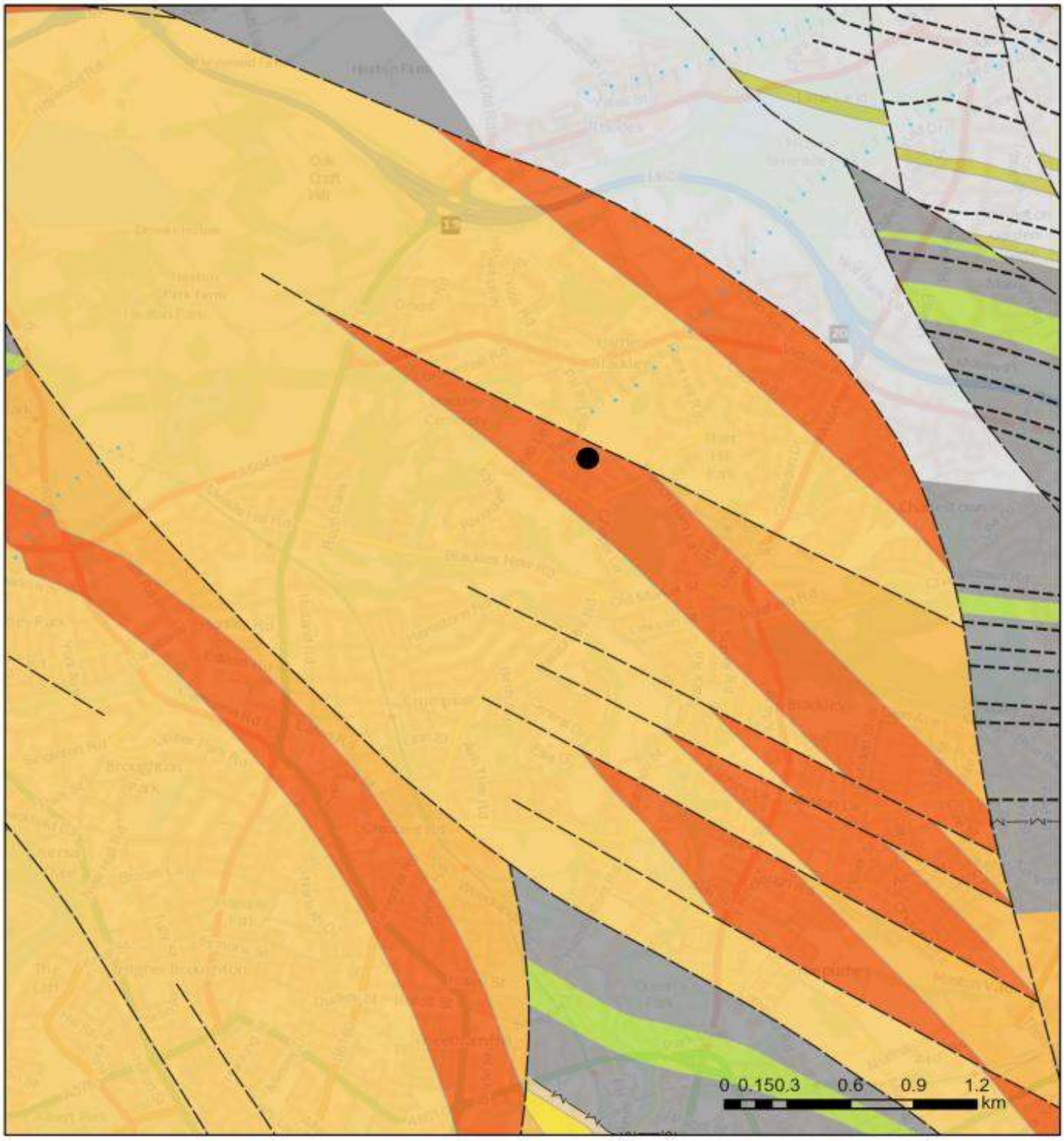
Superficial Geology



Superficial deposits 1:50,000 scale

- Glaciofluvial deposits, Devensian-Sand and gravel
- Glaciofluvial ice contact deposits, Devensian-Sand and gravel
- Glaciofluvial sheet deposits, Devensian-Sand and gravel
- Till, Devensian-Diamicton
- Hummocky (Moundy) Glacial Deposits, Devensian-Diamicton
- Hummocky (Moundy) Glacial Deposits, Devensian-Sand and gravel
- Alluvium-Clay, silt, sand and gravel
- Head-Clay, silt, sand and gravel
- River Terrace Deposits, 1-Sand and gravel
- River Terrace Deposits, 2-Sand and gravel
- Peat-Peat

Bedrock Geology



Bedrock geology 1:50,000 scale

- Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone
- Pennine Upper Coal Measures Formation-Mudstone, siltstone and sandstone
- Pennine Middle Coal Measures Formation-Mudstone, siltstone and sandstone
- Chester Formation-Sandstone
- Collyhurst Sandstone Formation-Sandstone
- Blenfire Rock-Sandstone
- Chamber Rock-Sandstone
- Pennine Lower Coal Measures Formation-Sandstone
- Newton Heath Sandstone-Sandstone
- Nob End Rock-Sandstone
- Bardsley Rock-Sandstone
- Huncliffe Rock-Sandstone
- Worsley Delf Rock-Sandstone
- Manchester Marls Formation-Mudstone

Linear features 1:50,000 scale

- Buried_channel_Margin
- Coal_seam_Inf
- Coal_seam_Obs
- Fault_Inf_Crossmark_on_downthrow_side
- Fault_Inf_Downthrow_unspecified
- Marine_band

Appendix E – BGS Borehole Records

Ref: SD80SW930

City Engineer And Surveyors Department

CLIENT CITY ESTATES — DATE 28TH MARCH, 1969

LOCATION CRAB LANE — METHOD JCB 3CX

TRIAL PIT NO 5 — DEPTH 3.10 — 384887

GRID REFERENCE — SCALE 1.50 — 403763

CU Values KN/M²	Water Level	Sample Type & Depth	Thick-ness	Depth of Strata Below G.L	Description	Reduced Level	Legend
				0.40	Topsoil with roots, ashes etc		
	2.00			2.10	Loose yellow/white/brown slightly silty SAND		
				2.60	Loose grey slightly silty SAND		
				3.10	Loose white grey/brown silty SAND		
					END OF TRIAL PIT		

SAMPLE/TEST KEY

U – Undisturbed
D – Disturbed
B – Bulk
W – Water
SV – Shear Vane Test
CBR – California Bearing Ratio Test
PB – Plate Bearing Test
PP – Pocket Penetrometer Test

Water Strike
Water Level

REMARKS

Trial pit backfilled on completion

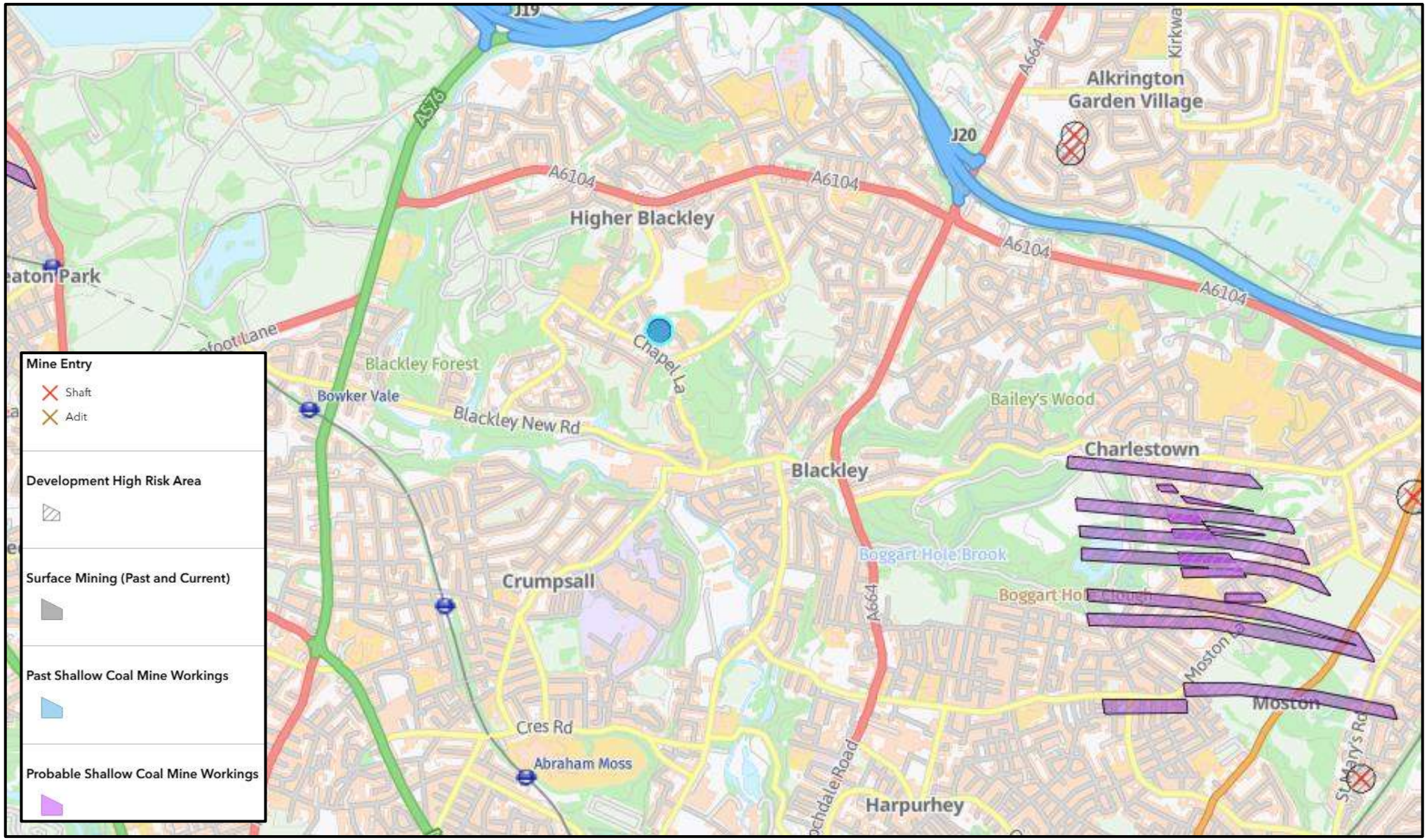
Sides unstable

WATER OBSERVATIONS

SKETCH/PLAN

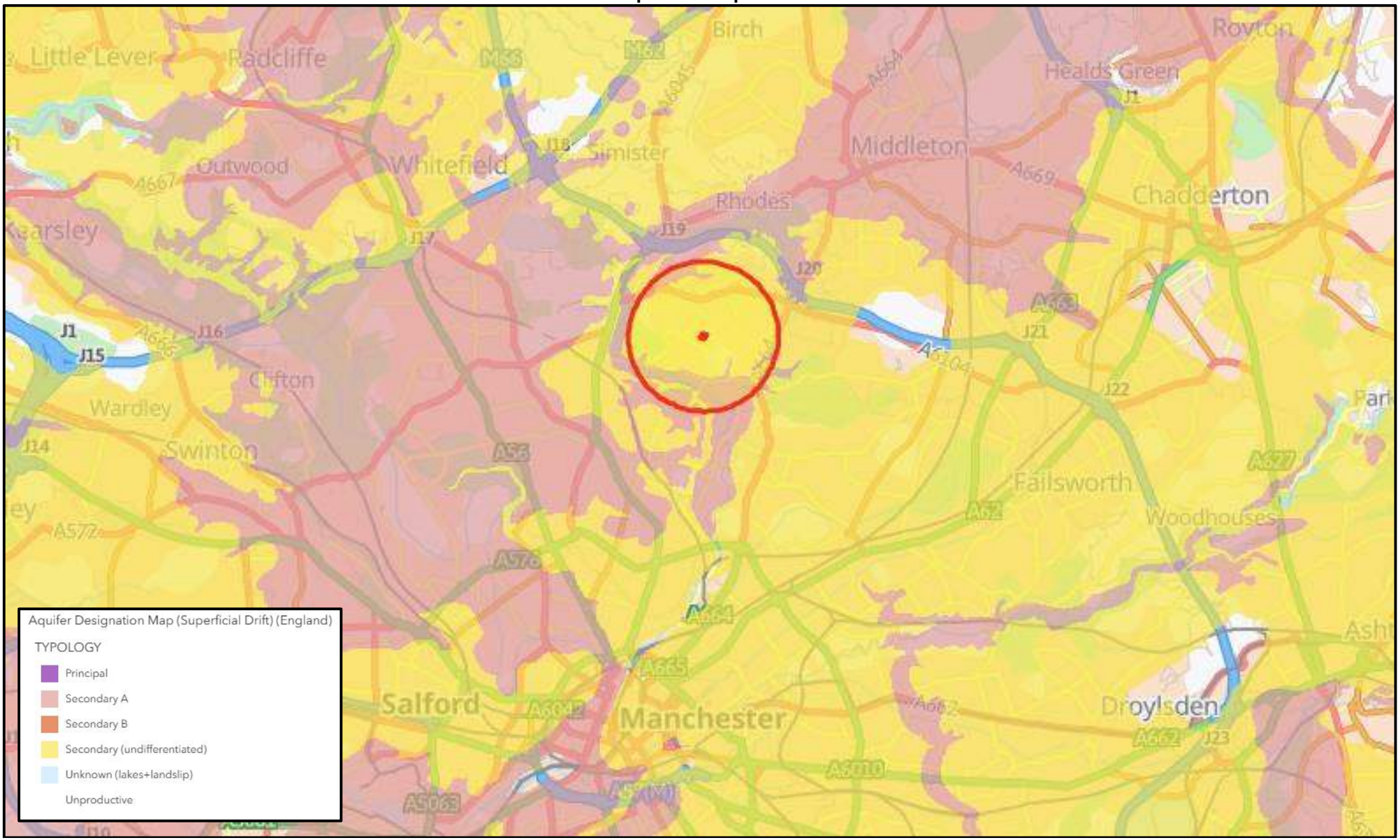
all depths in metres

Appendix F – Coal Mining Summary Map



Appendix G – Hydrogeology Maps

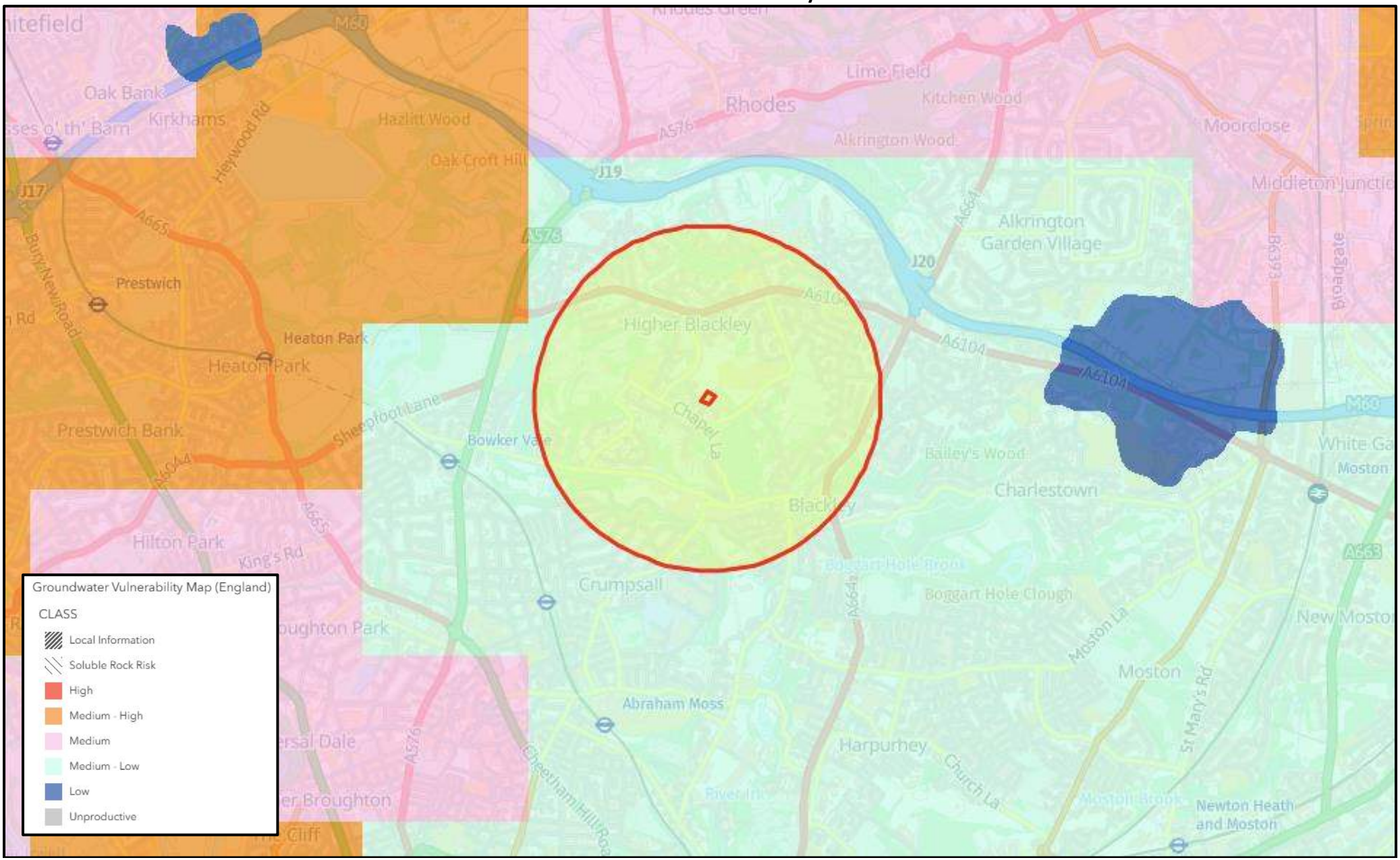
Superficial Aquifer



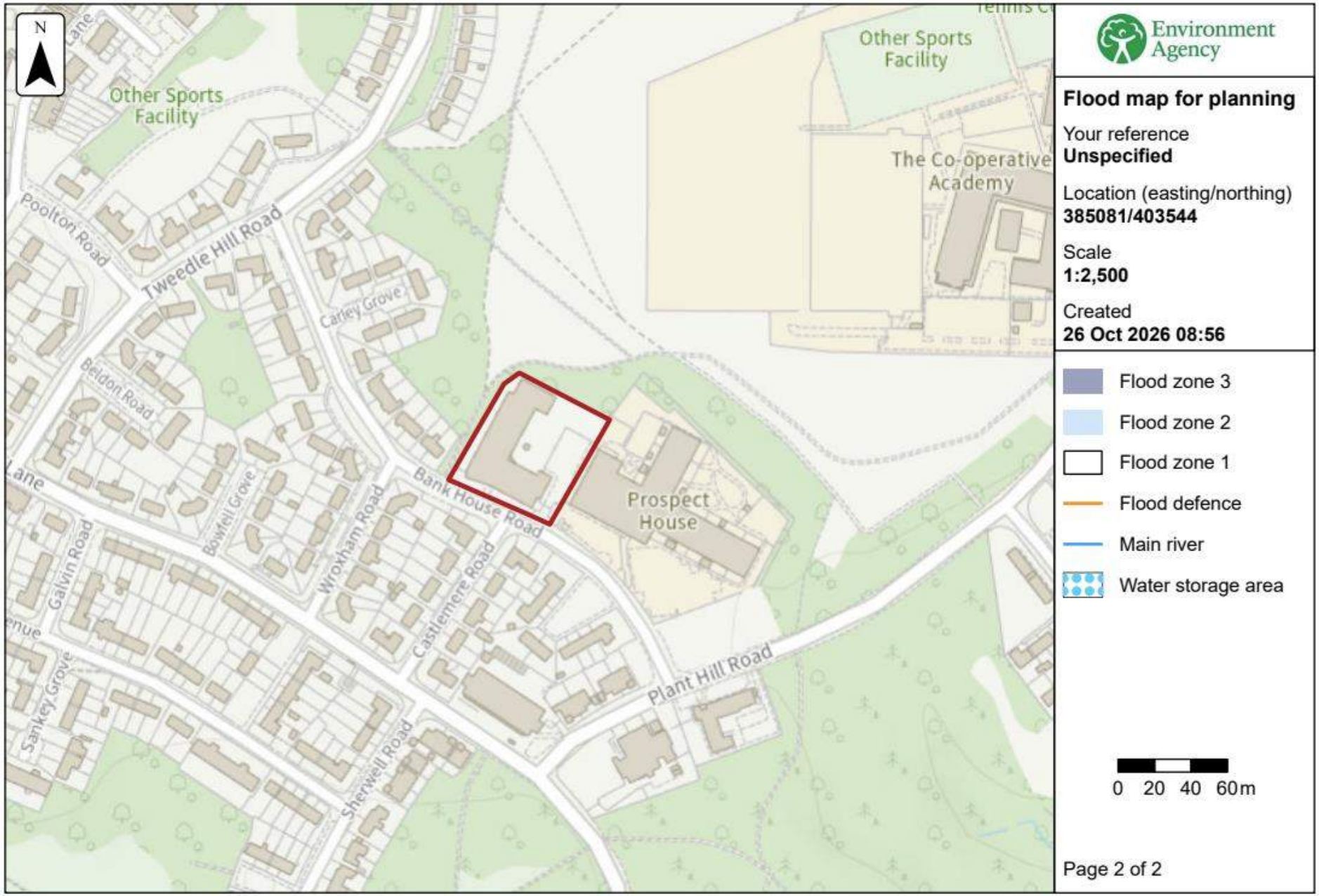
Bedrock Aquifer



Groundwater Vulnerability



Appendix H – Flood Risk Map



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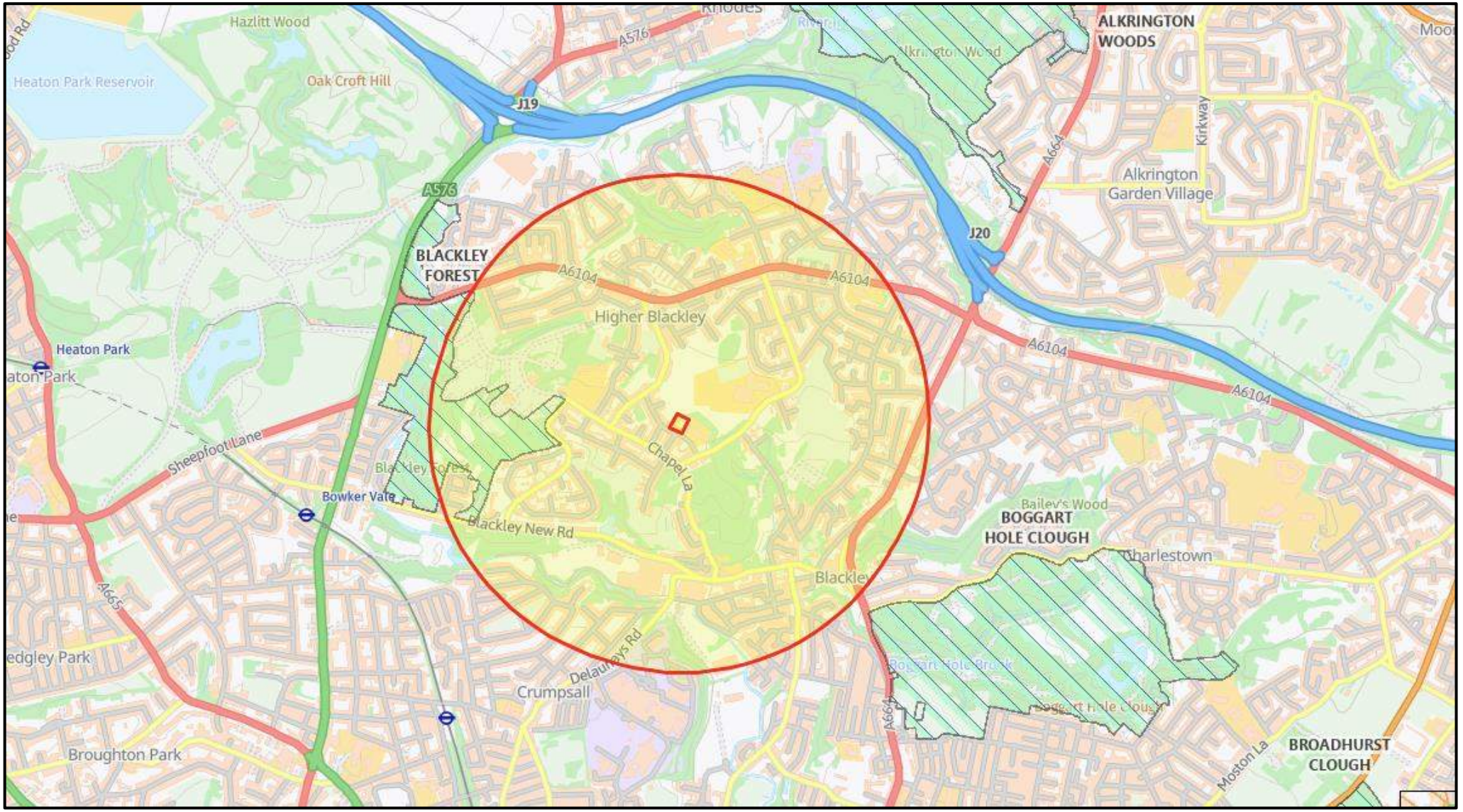
Appendix I – Authorised Landfill Map



Groundsure Landfill Map

Appendix J – Environmental Designations

Local Nature Reserves



Nitrate Vulnerable Zones

