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Phase 1

Environmental Assessment Report

30 Melling Street

Manchester

M12 4PH

Date: 24th July 2026

Version 5

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Executive Summary

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

This classification is due to the presence of asbestos containing materials in the existing garden shed. A plan is in place to remove these safely and appropriately from the shed, however, asbestos fibres could have been already released to the ground considering the poor condition of the shed.

It is recommended a Phase 2 intrusive ground investigation is undertaken prior to site redevelopment to obtain additional information on the ground conditions and the contamination status. The investigation should be carried out by qualified and competent persons. The scope of works for the investigation will need to be submitted and approved by the local authority prior to the commencement of the Phase 2 intrusive works.

Topsoil Validation

It is understood the client does not propose to import topsoils to the site for redevelopment. The re-use of site-won materials will be dependent on the outcome of the Phase 2 intrusive ground investigation.

However, if this is to change, validation of imported materials will be required. This should be undertaken at a frequency of one sample per $50m^3$. A minimum of 3 no. samples should be taken for greenfield source of imported materials or a minimum of 6 no. samples should be taken for a brownfield source of imported materials.

The material should be compliant with BS3882:2015 “Specification for Topsoil” and the soil quality criteria presented in Section 3.2 to protect the rooting zone and human health.

Comparison of the results should be made with the soil quality criteria for human health with plant uptake. If any exceedances are found, then the material should not be used on the site.

It is recommended that validation of imported soils is in-situ to confirm that the material is suitable for use.

Validation certificates and documentation will be retained and included within the verification / completion report for all imported materials. Where validation is undertaken at source subsequent delivery notes should be retained for all imported material and copies included in the completion report to ensure corroboration of site delivered materials with those sampled.

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 Melling Street, 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, July 2021);
- BS10175: 2011 +A2:2017 “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 1848 to 2025. 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 adjacent to 30 Melling Street, Manchester M12 4PH. The British National Grid Reference for the approximate site centre is GR: 387340, 395595

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 2nd of December 2025. The site photographs are included in **Appendix B.**

The site is irregular in shape and covers an approximate area of 380 m². It is bounded by residential properties to the east and west, Farrant Road to the south and Melling Street to the north, which currently forms the main point of access to the site. Boundary treatments comprise mainly timber panel and occasional steel palisade fencing and temporary heras fencing.

The ground is generally flat lying at an approximate elevation of 54m aOD.

A concrete-paved driveway in poor condition provides vehicular access from Melling Street. There is a secondary gated access from the south. A wooden-built shed, with an attached canopy to the west, is located approximately within the central portion of the site.

The site has been recently cleared of overgrown vegetation and small trees. Tree trimmings and vegetation waste has been piled south of the existing shed. During the site walkover, no evidence of invasive species were noted.

Anecdotal information from the client has revealed they are aware of asbestos cladding in the shed materials. It is understood a plan is in place to remove these safely and appropriately.

Visual inspection of the site did not identify any obvious signs of contamination; however, litter was scattered across the site including plastic packaging, empty cans, fruit crates, old timber, etc.

Land use in the surrounding area is predominantly residential t. No petrol filling stations were identified within 250 m of the site.

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

2.3 Development Proposals

A formal Planning Application has been submitted for the site to Manchester City Council. Development plans include the erection of 2 no. two-storey dwellinghouses, together with associated parking, landscaping and boundary treatment.

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 and agricultural field.	Surrounding land mostly undeveloped agricultural land. Gore brook directly south of the site. Industrial type buildings approximately 125m east of the site.
1893	1:2,500	No significant change.	Sparse cottages north of the site, and moderate residential development to the northwest. Reservoir 150m east. Rope, twine and tarpaulin works 150m northeast. Dye works 125m east. Iron works 130m southeast. Clay pit and brick works 120m southwest.

Date	Scale	On Site	Off Site
1908	1:2,500	No significant change.	Significant residential development northwest and south of the site. Tanks 190m east. Pit 175m southeast. Brick works 200m southeast. Tramway line 175m northwest.
1933	1:2,500	No significant change.	Brook culverted and no longer identified on the map. Allotment gardens 50m northeast.
1951	1:1,250	No significant change.	Significant residential development north and west of the site. Electricity substation 180m north. Engineering works 130m northeast. Refuse heap 190m east. Tramway line 175m southeast. Tank 240m southeast. Timber yard 125m west.
1968-1972	1:1,250	Existing shed built onsite.	Engineering works relabelled as depot. Refuse heap 175m northeast. Timber yard relabelled as depot.
1981-1985	1:10,000	No significant change.	No significant change.
1992	1:1,250	Second small shed built adjacent to previous one.	Brickworks to the southeast no longer identified on the map.
2006	1:10,000	No significant change.	No significant change.
2025	1:10,000	No significant change.	No significant change.

3 Environmental Setting

3.1 Geology

Geological maps of the area indicate that the site is underlain by superficial diamicton (till) deposits, sedimented during the Late Pleistocene. Diamicton is a type of sediment that is poorly sorted and contains a wide range of clast sizes.

The underlying bedrock is the Collyhurst Sandstone Formation which is of Permian age. It generally consists of soft red sandstone with abundant beds of rounded sand grains alternating with beds of fine-grained angular sand.

A geological fault intersects the south-easternmost corner of the site.

A borehole (Ref: SJ89NE1842) located 115m west of the site was obtained from BGS online records. The borehole penetrates to 11.65m bgl. and shows 3.6m of concrete slab overlying Made Ground, overlying a succession of sandy and silty clay with common stone and coal inclusions. A thin sand and gravel level was recorded at 5.25m bgl.

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 Mining Remediation Authority. As such, it is considered that there are no coal mining related hazards which could affect the site.

3.4 Hydrogeology

The superficial till deposits are designated as a Secondary (Undifferentiated) Aquifer, defined as; cases where it has not been possible to attribute either category A or B to a rock type. In most cases this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.

The underlying Collyhurst Sandstone Formation bedrock is designated as a Principal Aquifer, defined as; layers of rock or drift deposits that have high intergranular and/or fracture

permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale.

There are no records of groundwater abstraction licences located within a 1km radius of the site and the site does not lie within a Source Protection Zone.

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

3.5 Hydrology

There are no significant surface water features (rivers, lakes and reservoirs) located within a 1km radius of the site.

There are no minor surface water features located within a 250m radius of the site.

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 G**.

3.7 Waste Management Facilities

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

Table 2 - Historic Landfill Summary

Landfill Site	Operation Dates	Waste Type	Distance from Site
Pink Bank Lane	1981	Inert, commercial household	135m SE
Mount Road Plant Site	No information	Household	345m E
Matthews Lane	1969-1978	Inert, industrial, commercial, household, special	465m SE

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

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

There is a single record of a site operating under an environmental permit for waste operations within a 1km radius of the site. The permit is held by Urosh Ventaj 255m east of the site for a metal Recycling Site (vehicle dismantler).

3.8 Environmental Permits, Incidents and Registers

There are 3 no. 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 held by United Utilities Water Limited 92m southwest of the site.

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

4 Preliminary Conceptual Site Model

4.1 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.

4.2 Potential Contamination Sources

The site has remained mostly undeveloped until today. The existing wooden shed was built between the 1960s and 1980s and it includes asbestos cladding. It is understood a plan is in place to remove these safely and appropriately. However, considering the state of partial decay of the shed, asbestos fibres could have been already released to the ground.

No other current of historical onsite sources of contamination have been identified.

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 3 below:

Table 3 - Off-Site Land Use Summary

Land Use	Potential Contaminants
Industrial type buildings	Heavy metals, hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), asbestos, solvents

Rope, twine and tarpaulin works	Heavy metals, polycyclic aromatic hydrocarbons (PAHs), asbestos
Dye works	Heavy metals, inorganic compounds, sizing agents, organic solvents, other organic compounds, polychlorinated biphenyls (PCBs), dyes, asbestos
Iron works	Heavy metals, inorganic compounds, organic compounds, polychlorinated biphenyls (PCBs), asbestos
Clay pit and brick works	Heavy metals, polycyclic aromatic hydrocarbons (PAHs), asbestos, ground gas (i.e., methane and carbon dioxide)
Tanks	Hydrocarbons
Pit (infilled)	Ground gas (i.e., methane and carbon dioxide)
Tramway line	Hydrocarbons, polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), heavy metals
Allotment gardens	Heavy metals, polycyclic aromatic hydrocarbons (PAHs), nitrates
Electricity substation	Polychlorinated biphenyls (PCBs)
Engineering works	Heavy metals, hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), asbestos, solvents
Refuse heap	Heavy metals, ground gas (i.e., methane and carbon dioxide)
Timber yard	Heavy metals, inorganic compounds, acids/alkalis, asbestos, organic solvents, polychlorinated biphenyls (PCBs)
Depot	Heavy metals, hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), asbestos, solvents

The above off-site land uses and the historic landfill sites can be discounted as feasible sources of contamination due to the distance from site (≥50m) and the impermeable nature of the geology beneath the site which would sever any migration pathway.

4.3 Receptors

The potential receptors considered to be at risk from soil and groundwater contamination associated with the site are summarised in Table 4 below:

Table 4 - 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 - Principal Aquifer
Building/ construction materials	- Foundations - Buried services
Environmental Receptors	- N/A

4.4 Pathways

The potential exposure pathways linking contamination with the receptors identified above are summarised in Table 5 below:

Table 5 - 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

Receptor	Details of Exposure Pathway
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

4.5 Potential Pollution Linkages

4.5.1 Human Health

Development plans include the erection of 2 no. two-storey dwellinghouses, together with associated parking, landscaping and boundary treatment. This is considered to be a 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 including the potential consumption of homegrown produce.

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 could be a risk of exposure via inhalation to future site users. However, ground gas or vapours are not anticipated onsite.

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.

4.5.2 Controlled Waters

The site is immediately underlain by superficial till deposits which is designated as a Secondary (Undifferentiated) Aquifer. It is considered that the impermeable nature of the superficial deposits would prevent the migration of any potential contaminants to the underlying groundwater aquifer. Additionally, 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.

There are no surface water features within a 250m radius of the site.

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

4.5.3 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.

4.6 Environmental Designations

No sensitive environmental designations have been identified.

4.7 Preliminary Hazard Assessment

A preliminary hazard assessment is presented in Table 6. 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 6 - 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	2	3	Moderate	Contamination source potential identified. Risk of exposure to asbestos containing materials in shed. A plan is in place to remove these safely and appropriately from the shed. Proposed areas of soft landscaping provide exposure pathway to residual contamination by asbestos.
Contaminated soil / groundwater	Direct contact	Buildings/ services	1	3	Low	Contamination source potential not identified.
Contaminated groundwater	Downward or lateral migration Surface water run-off	Secondary (Undifferentiated) Aquifer Principal Aquifer	1	3	Low	Contamination source potential not identified.
Ground gas / vapours Radon	Inhalation, ingress into buildings	Buildings / services Future site users Adjacent site users	1	4	Low	No significant ground gas / vapours source potential identified. Site located within the lowest band of radon potential.

		Construction workers				

Using Risk Matrix (Table 7) Degree of Risk (R) = Likelihood (L) x Effect (E)

Table 7 - 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.		

5 Conclusions and Recommendations

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

This classification is due to the presence of asbestos containing materials in the existing garden shed. A plan is in place to remove these safely and appropriately from the shed, however, asbestos fibres could have been already released to the ground considering the poor condition of the shed.

It is recommended a Phase 2 intrusive ground investigation is undertaken prior to site redevelopment to obtain additional information on the ground conditions and the contamination status. The investigation should be carried out by qualified and competent persons. The scope of works for the investigation will need to be submitted and approved by the local authority prior to the commencement of the Phase 2 intrusive works.

Topsoil Validation

It is understood the client does not propose to import topsoils to the site for redevelopment. The re-use of site-won materials will be dependent on the outcome of the Phase 2 intrusive ground investigation.

However, if this is to change, validation of imported materials will be required. This should be undertaken at a frequency of one sample per 50m^3. A minimum of 3 no. samples should be taken for greenfield source of imported materials or a minimum of 6 no. samples should be taken for a brownfield source of imported materials.

The material should be compliant with BS3882:2015 “Specification for Topsoil” and the soil quality criteria presented in Section 3.2 to protect the rooting zone and human health.

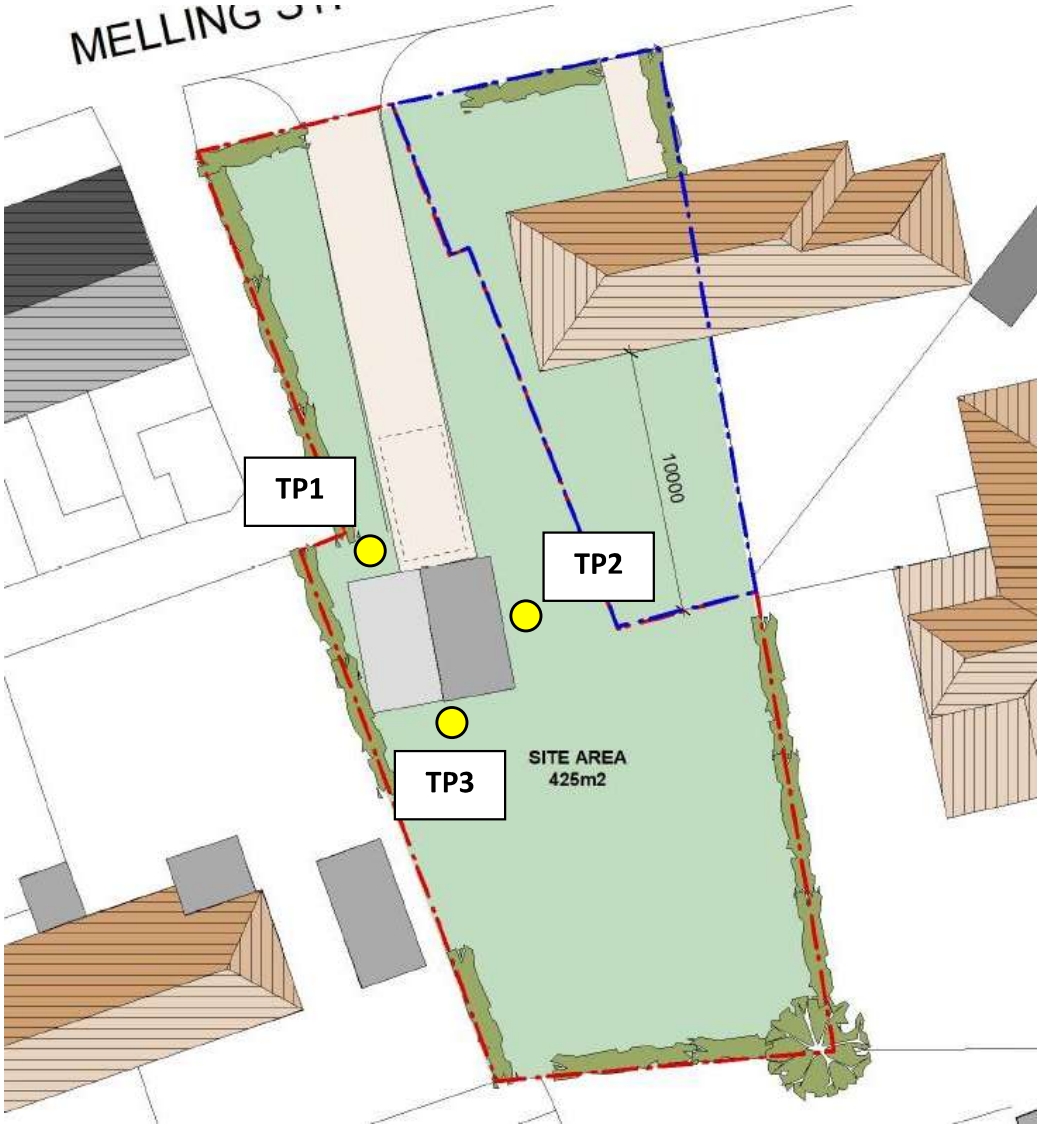
Comparison of the results should be made with the soil quality criteria for human health with plant uptake. If any exceedances are found, then the material should not be used on the site.

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Validation certificates and documentation will be retained and included within the verification / completion report for all imported materials. Where validation is undertaken at source subsequent delivery notes should be retained for all imported material and copies included in the completion report to ensure corroboration of site delivered materials with those sampled.

6 Scope of Works

It is proposed to undertake an intrusive ground investigation comprising 3 no. trial pits excavated to a minimum depth of 0.5m below ground level (bgl). The pits will be positioned close to the footprint of the shed.



The soil arisings from all exploratory holes will be logged in accordance with BS5930, and 5 no. representative soil samples (Made Ground/Topsoil) will be collected for subsequent laboratory analysis for a range of chemical parameters including:

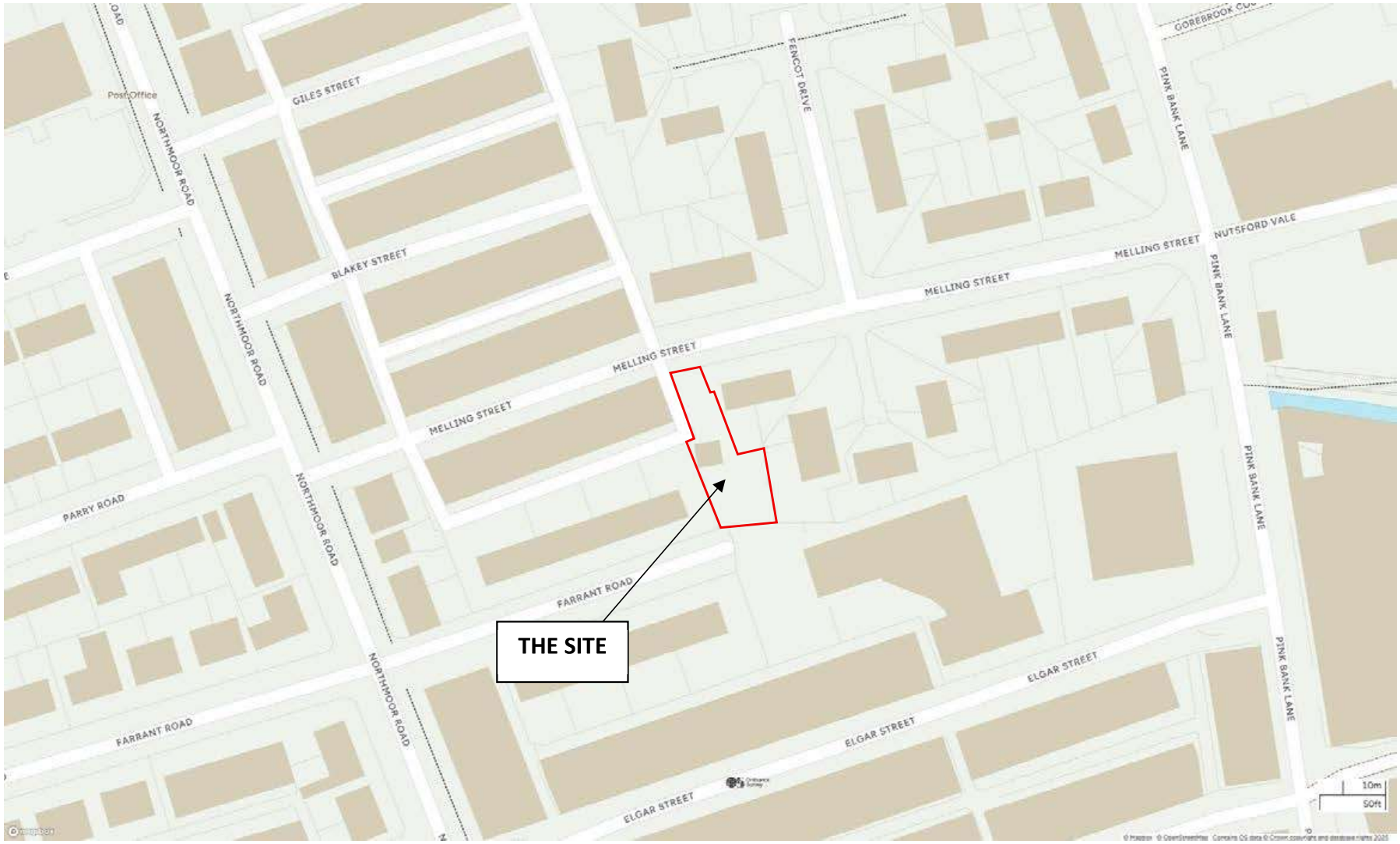
- Heavy metals
- pH
- TPH CWG
- SVOCs
- VOCs
- Asbestos ID/quantification

Upon completion of the intrusive ground investigation work and receipt of the laboratory test data, a report will be produced detailing the findings of the investigation. The report will include the following:

- A description of the findings of the intrusive ground investigation, including a description of the ground conditions encountered.
- Generic quantitative risk assessments.
- Conclusions and recommendations.

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 Development Plan**

Figure 3

Appendix B – Site Photographs



enviro | solution	**Gated entrance along Melling street**



enviro | solution	**Access driveway looking north**



enviro | solution	**View of site looking north**



enviro | solution	**Eastern and southern boundaries, litter and garden waste**



enviro | solution	**Gated access on Farrant Road**



enviro | solution	**Garden waste, litter and shed**

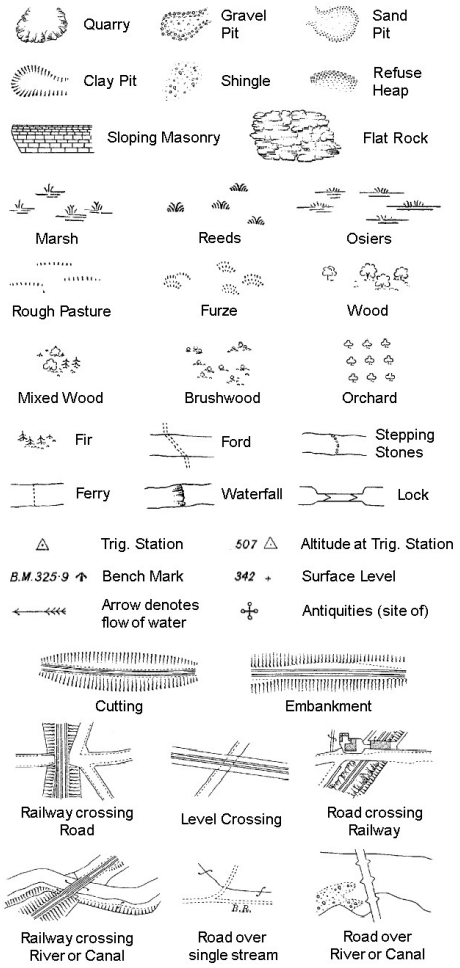


enviro | solution	**Canopy attached to the shed**

Appendix C - Historical Maps

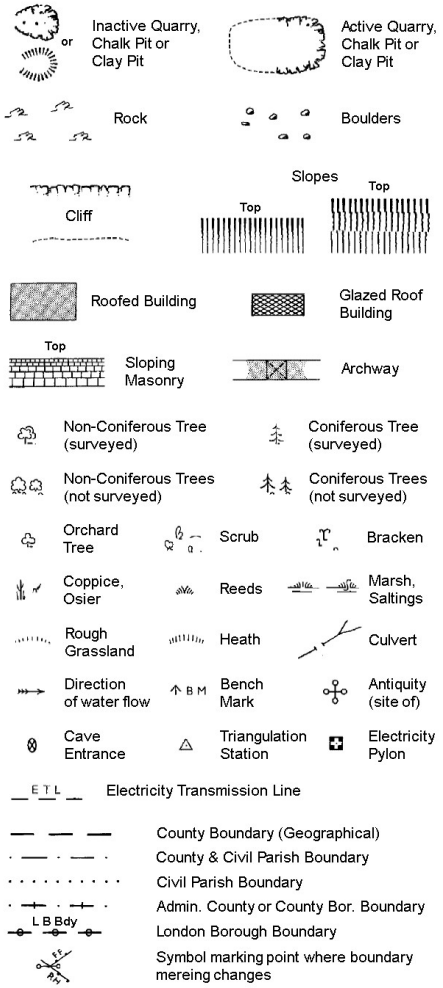
Historical Mapping Legends

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



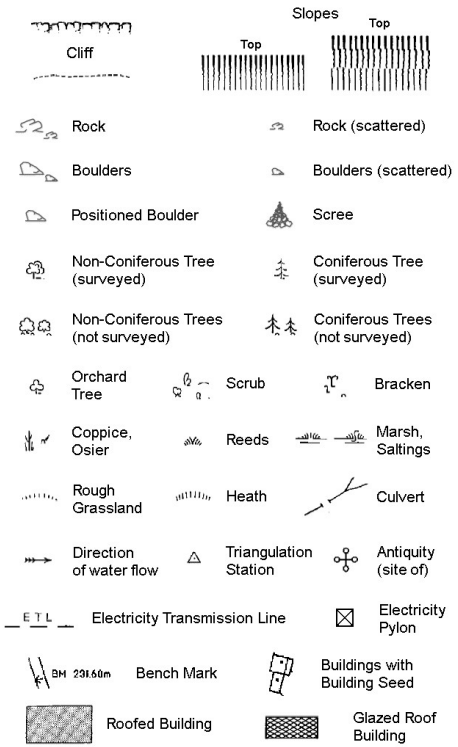
B P B S	Boundary Post or Stone	*P.C.B*	Police Call Box
B.R.	Bridle Road	*P*	Pump
E.P	Electricity Pylon	*S.P*	Signal Post
F.B.	Foot Bridge	*St.*	Sluice
F.P.	Foot Path	*Sp.*	Spring
G.P	Guide Post or Board	*T.C.B*	Telephone Call Box
M.S	Mile Stone	*Tr.*	Trough
M.P M.R	Mooring Post or Ring	*W*	Well

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



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

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



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

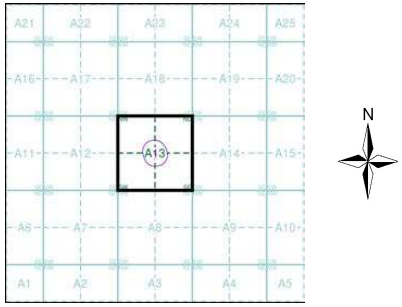
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1908	3
Lancashire And Furness	1:2,500	1933	4
Ordnance Survey Plan	1:1,250	1951	5
Additional SIMs	1:1,250	1951 - 1984	6
Ordnance Survey Plan	1:2,500	1952	7
Ordnance Survey Plan	1:1,250	1953 - 1983	8
Additional SIMs	1:1,250	1979 - 1991	9
Additional SIMs	1:1,250	1980 - 1983	10
Ordnance Survey Plan	1:1,250	1984 - 1989	11
Large-Scale National Grid Data	1:1,250	1992	12
Large-Scale National Grid Data	1:1,250	1993 - 1995	13
Large-Scale National Grid Data	1:1,250	1994	14
Large-Scale National Grid Data	1:1,250	1995	15
Large-Scale National Grid Data	1:1,250	1996	16
Historical Aerial Photography	1:2,500	2000	17

Historical Map - Segment A13



Order Details

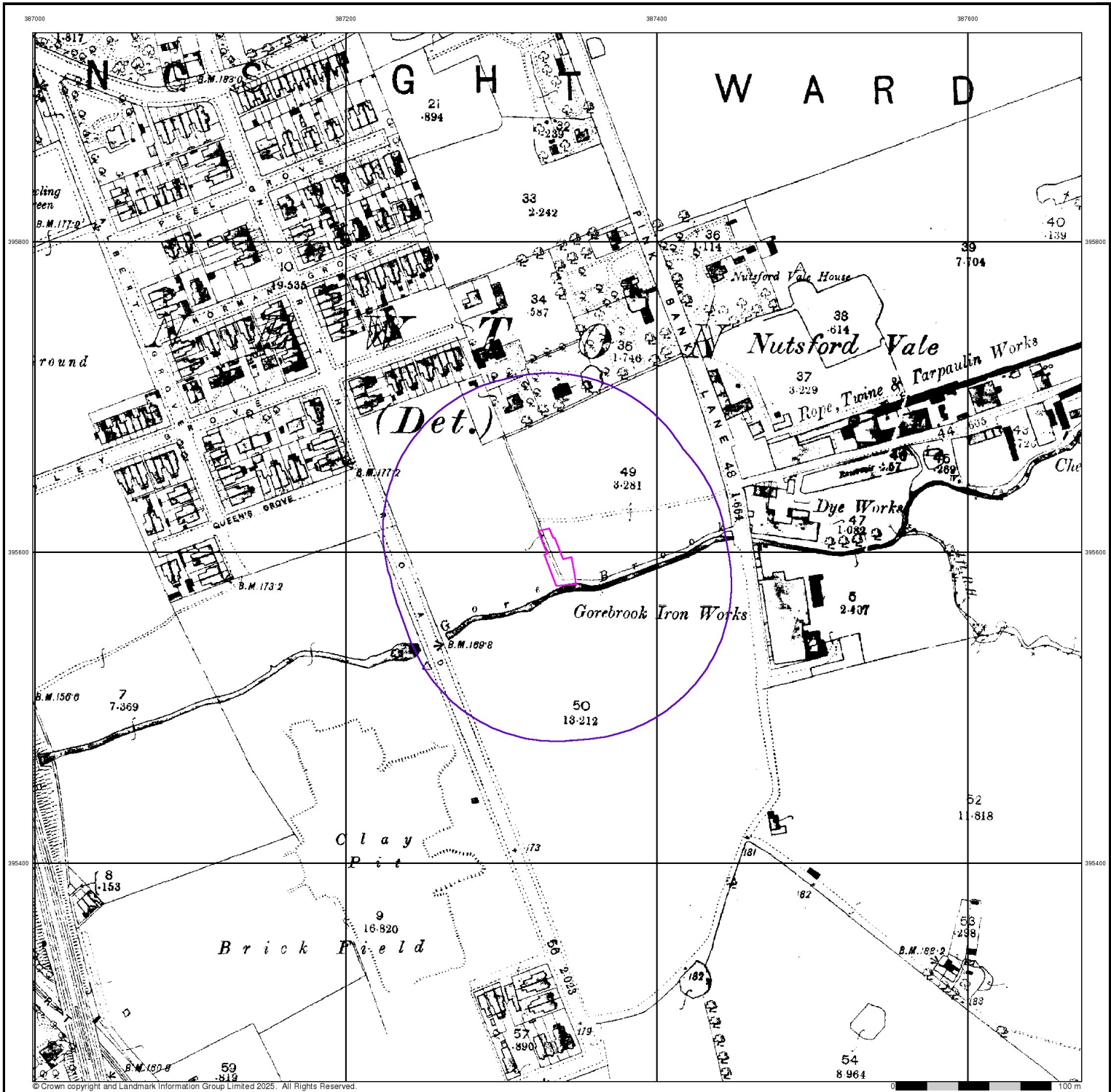
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Search Buffer (m):	100

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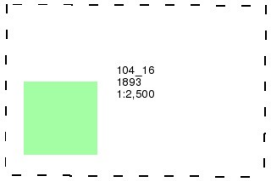
Lancashire And Furness

Published 1893

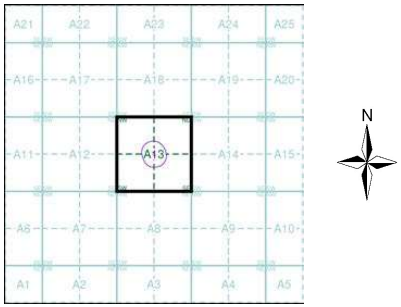
Source map scale - 1:2,500

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:	391217610_1_1
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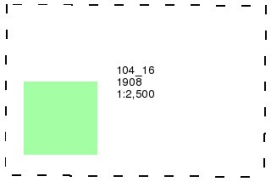
Lancashire And Furness

Published 1908

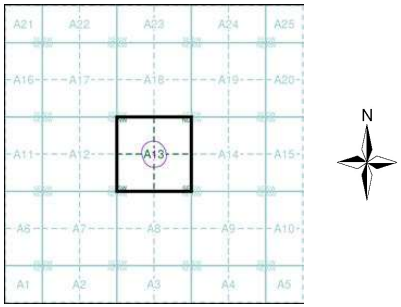
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



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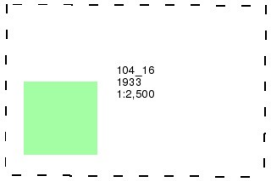
Lancashire And Furness

Published 1933

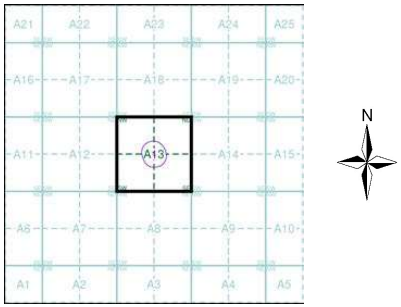
Source map scale - 1:2,500

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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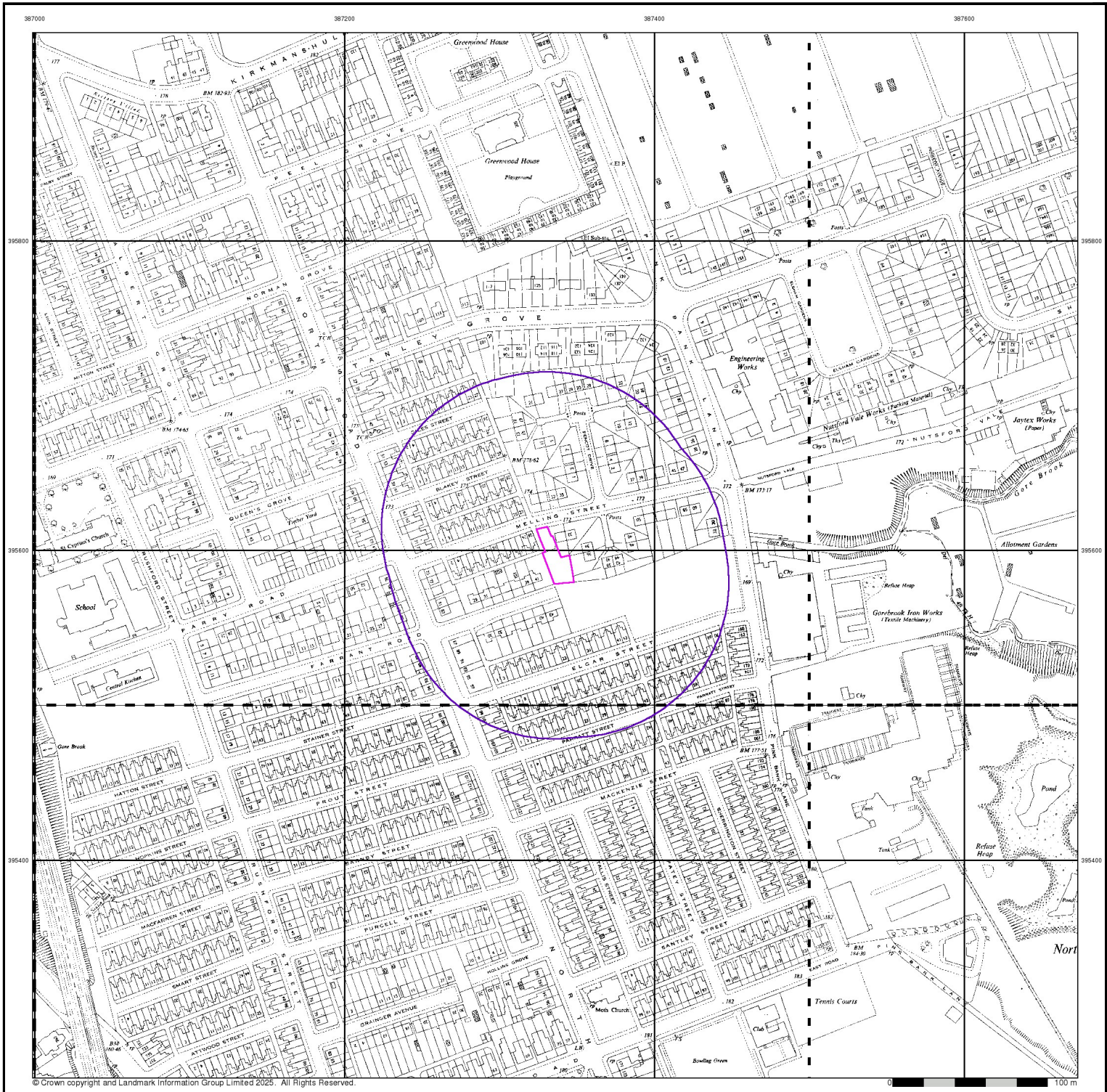
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Ordnance Survey Plan

Published 1951

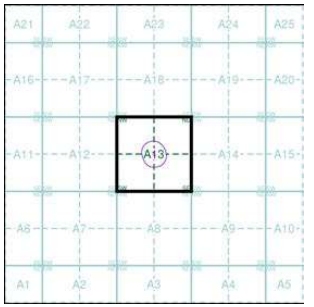
Source map scale - 1:1,250

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)

SJ8695NE 1951 1:1,250	SJ8795NW 1951 1:1,250	SJ8795NE 1951 1:1,250
SJ8695SE 1951 1:1,250	SJ8795SW 1951 1:1,250	SJ8795SE 1951 1:1,250

Historical Map - Segment A13



Order Details

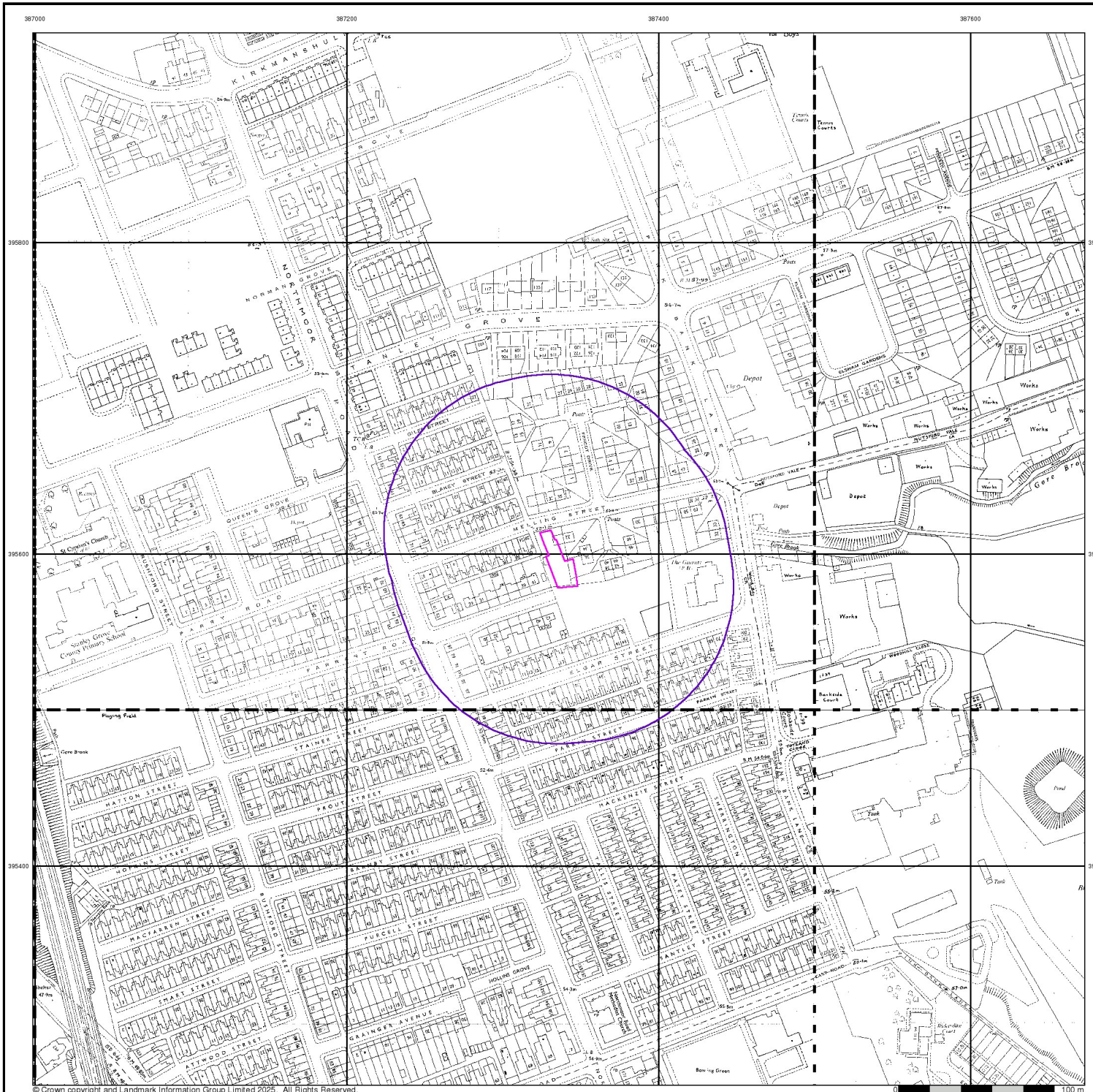
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Additional SIMs

Published 1951 - 1984

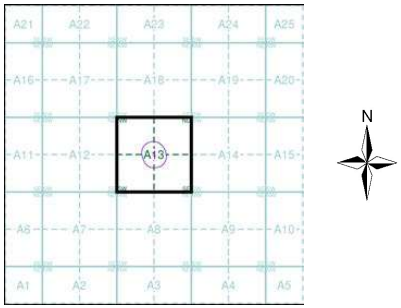
Source map scale - 1:1,250

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)

SJ8695NE 1951 1:1,250	SJ8795NW 1980 1:1,250	SJ8795NE 1984 1:1,250
SJ8695SE 1979 1:1,250	SJ8795SW 1984 1:1,250	SJ8795SE 1978 1:1,250

Historical Map - Segment A13



Order Details

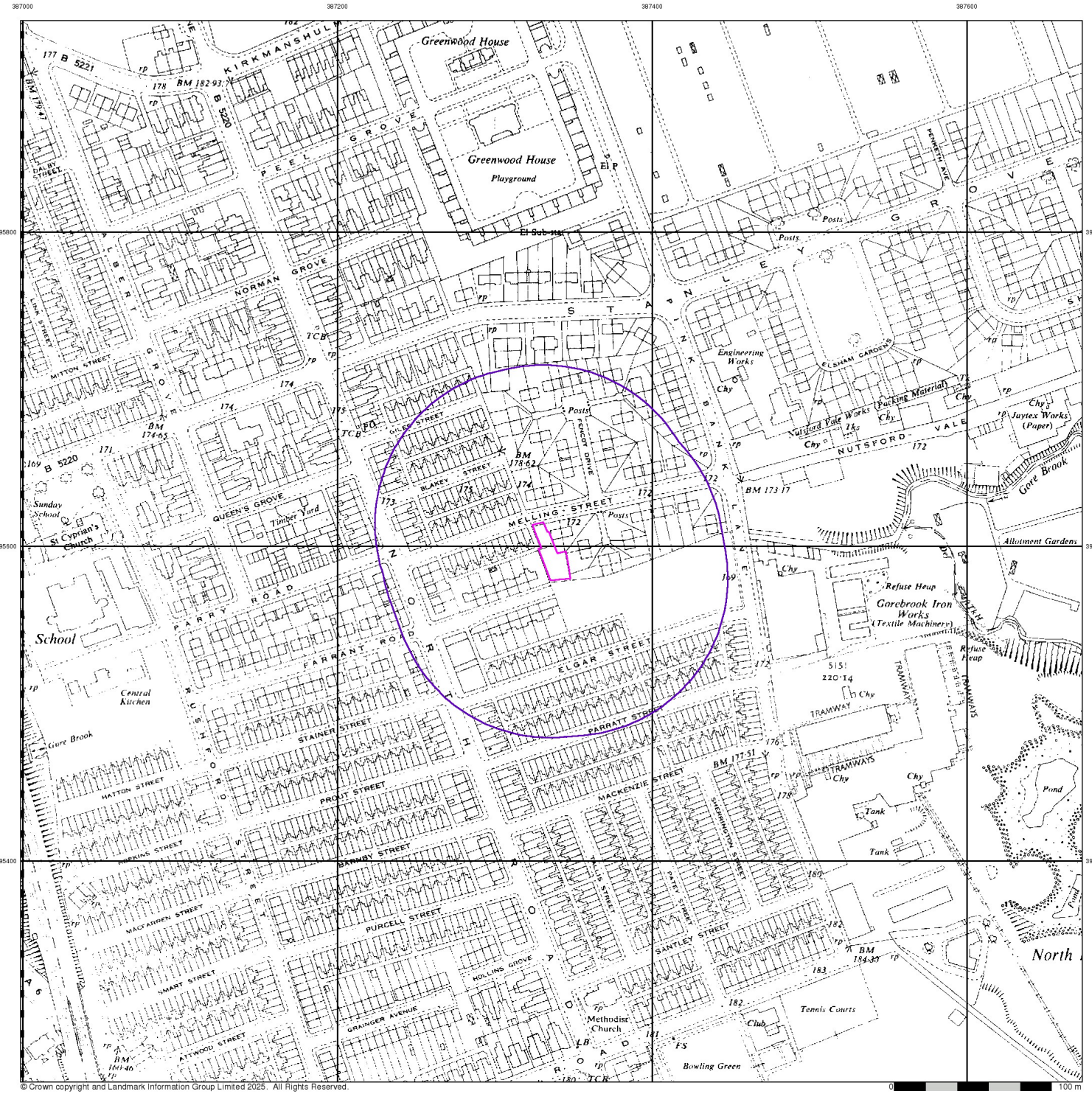
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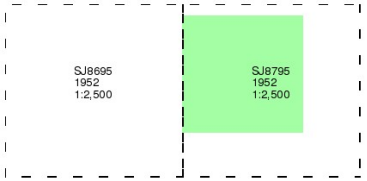
Ordnance Survey Plan

Published 1952

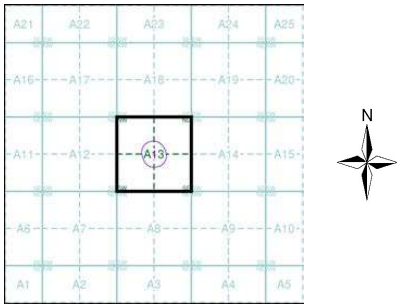
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

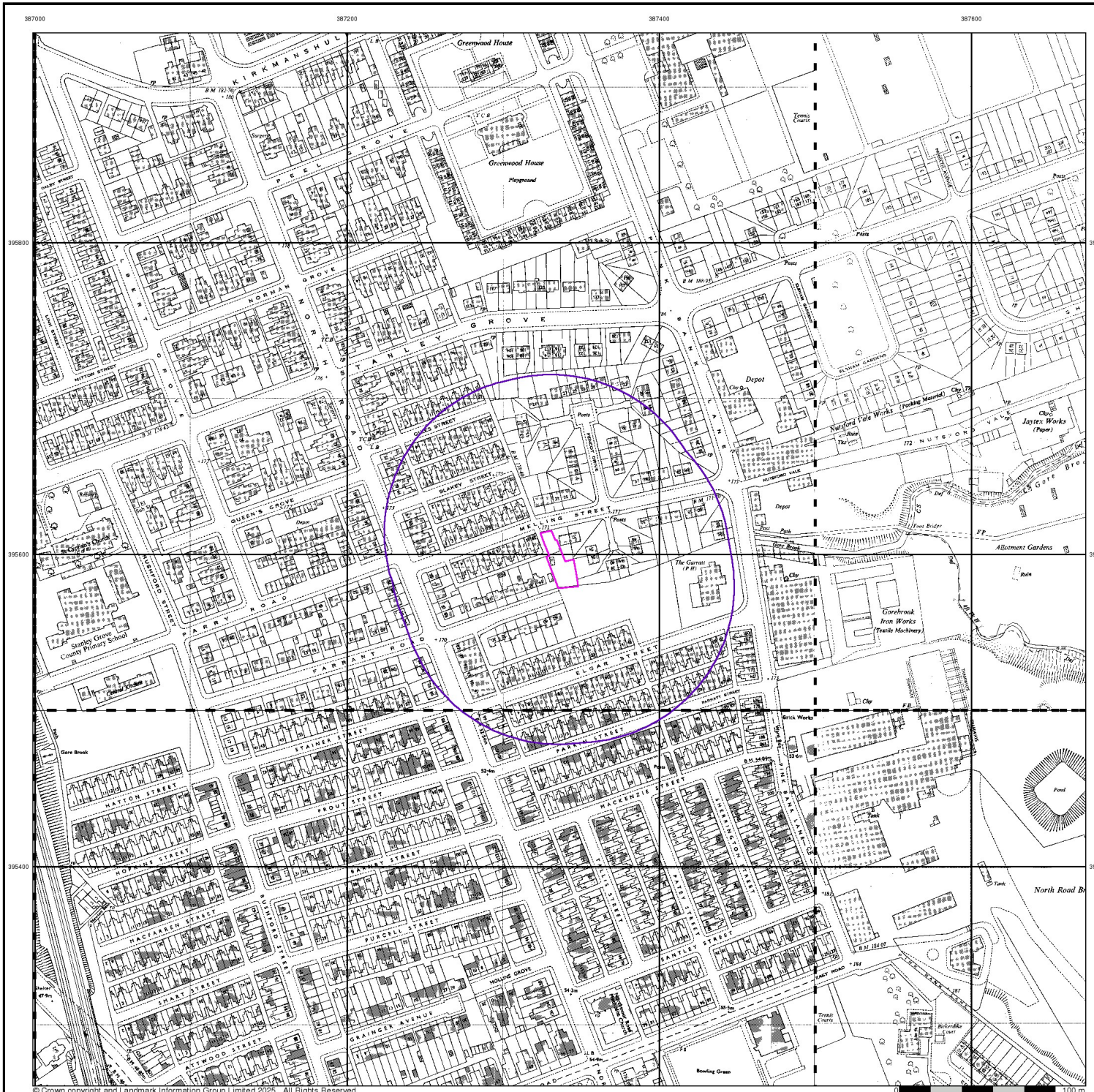
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Ordnance Survey Plan

Published 1953 - 1983

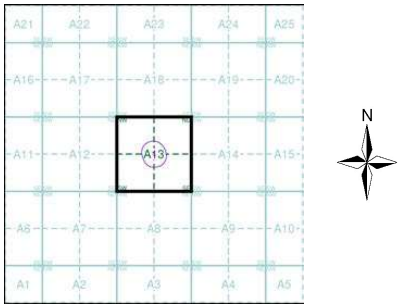
Source map scale - 1:1,250

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)

SJ8695NE 1983 1:1,250	SJ8795NW 1968 1:1,250	SJ8795NE 1953 1:1,250
	SJ8795SW 1972 1:1,250	SJ8795SE 1968 1:1,250

Historical Map - Segment A13



Order Details

Order Number:	391217610_1_1
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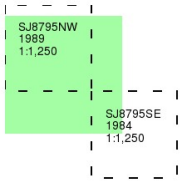
Ordnance Survey Plan

Published 1984 - 1989

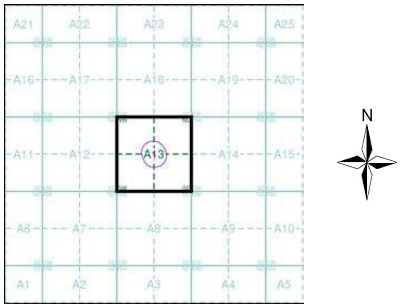
Source map scale - 1:1,250

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



Order Details

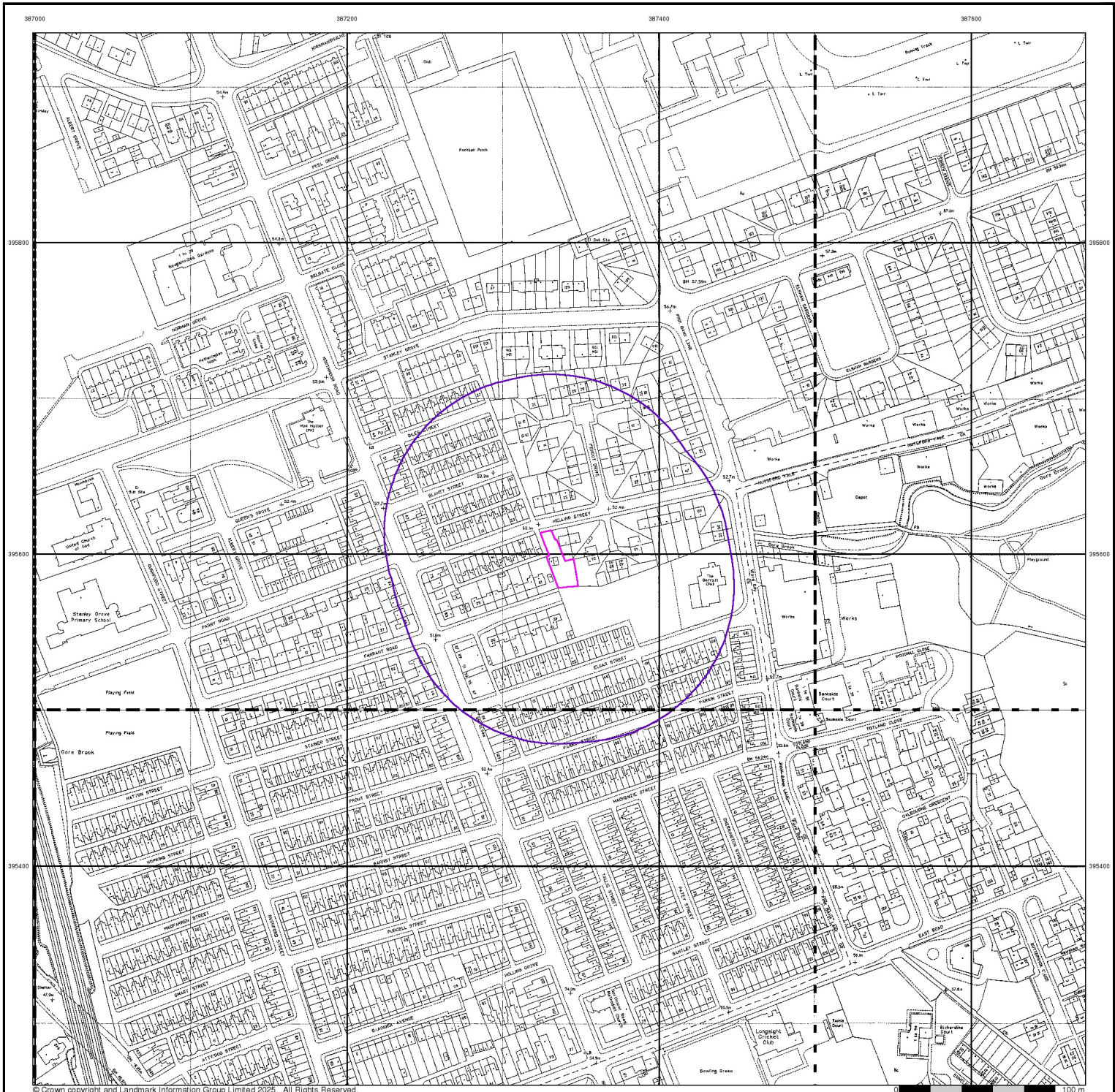
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Large-Scale National Grid Data

Published 1992

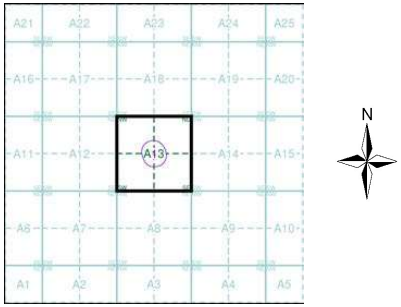
Source map scale - 1:1,250

'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)

SJ8695NE 1992 1:1,250	SJ8795NW 1992 1:1,250	SJ8795NE 1992 1:1,250
SJ8695SE 1992 1:1,250	SJ8795SW 1992 1:1,250	SJ8795SE 1992 1:1,250

Historical Map - Segment A13



Order Details

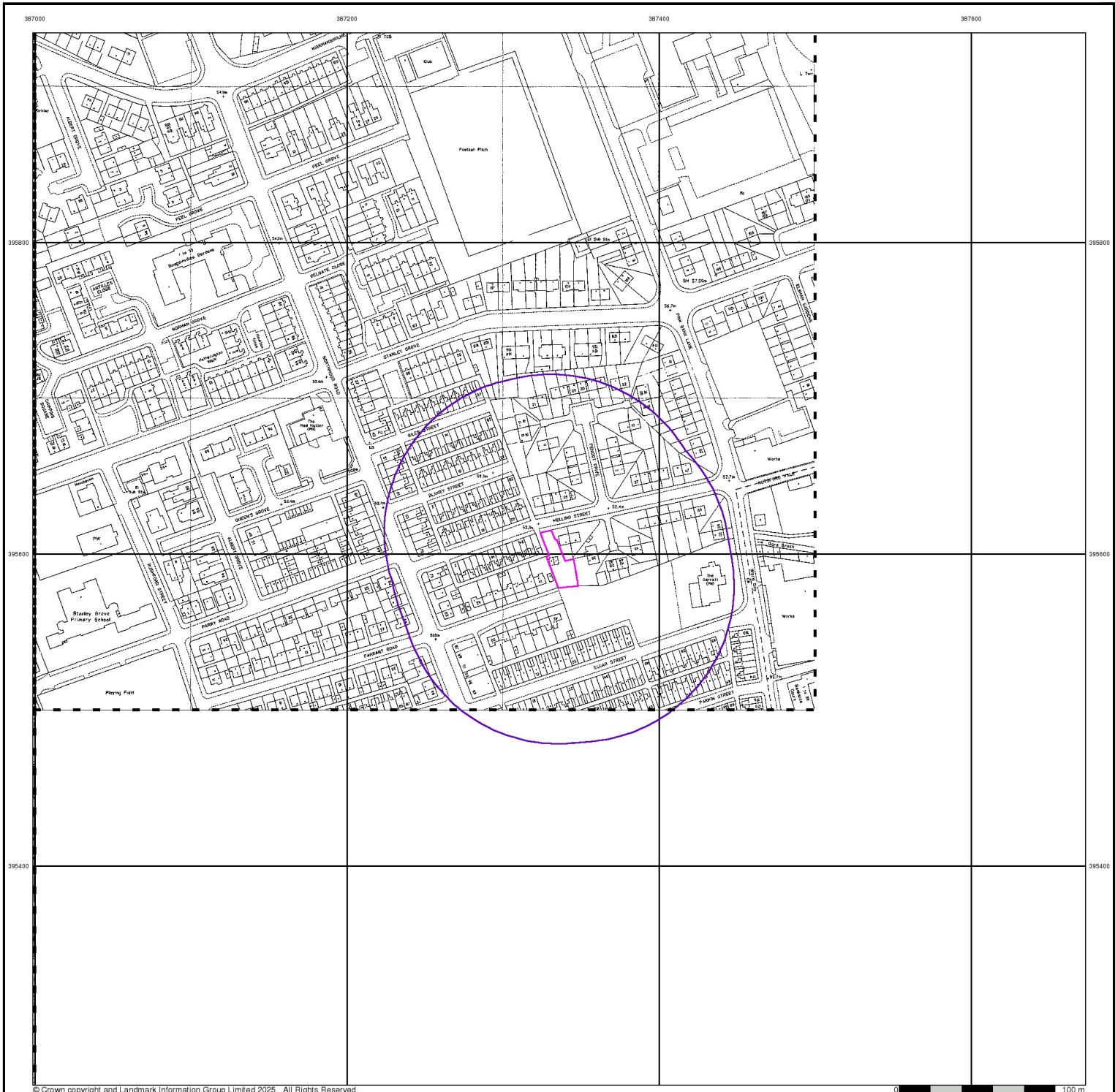
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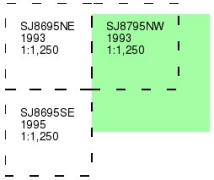
Large-Scale National Grid Data

Published 1993 - 1995

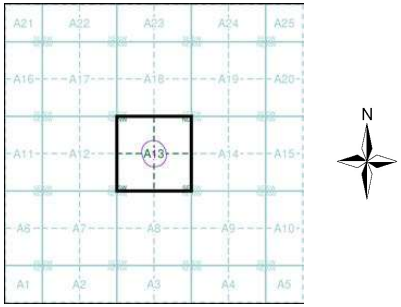
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

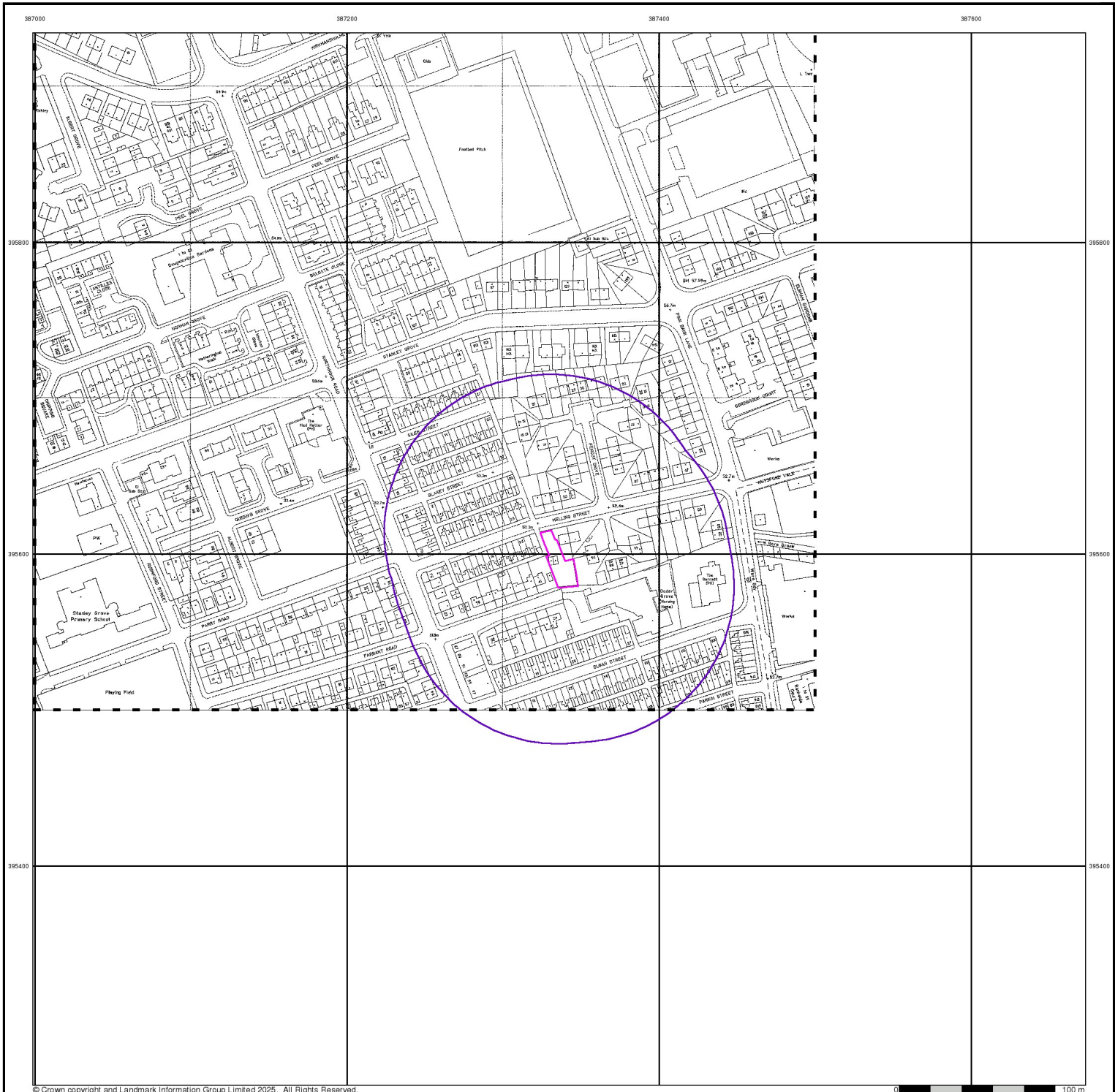
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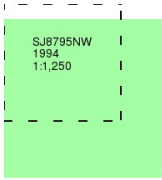
Large-Scale National Grid Data

Published 1994

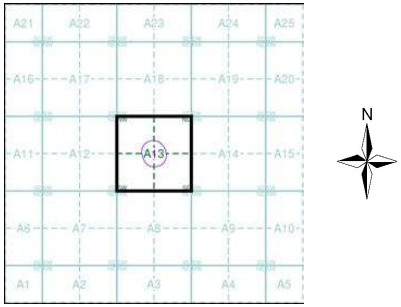
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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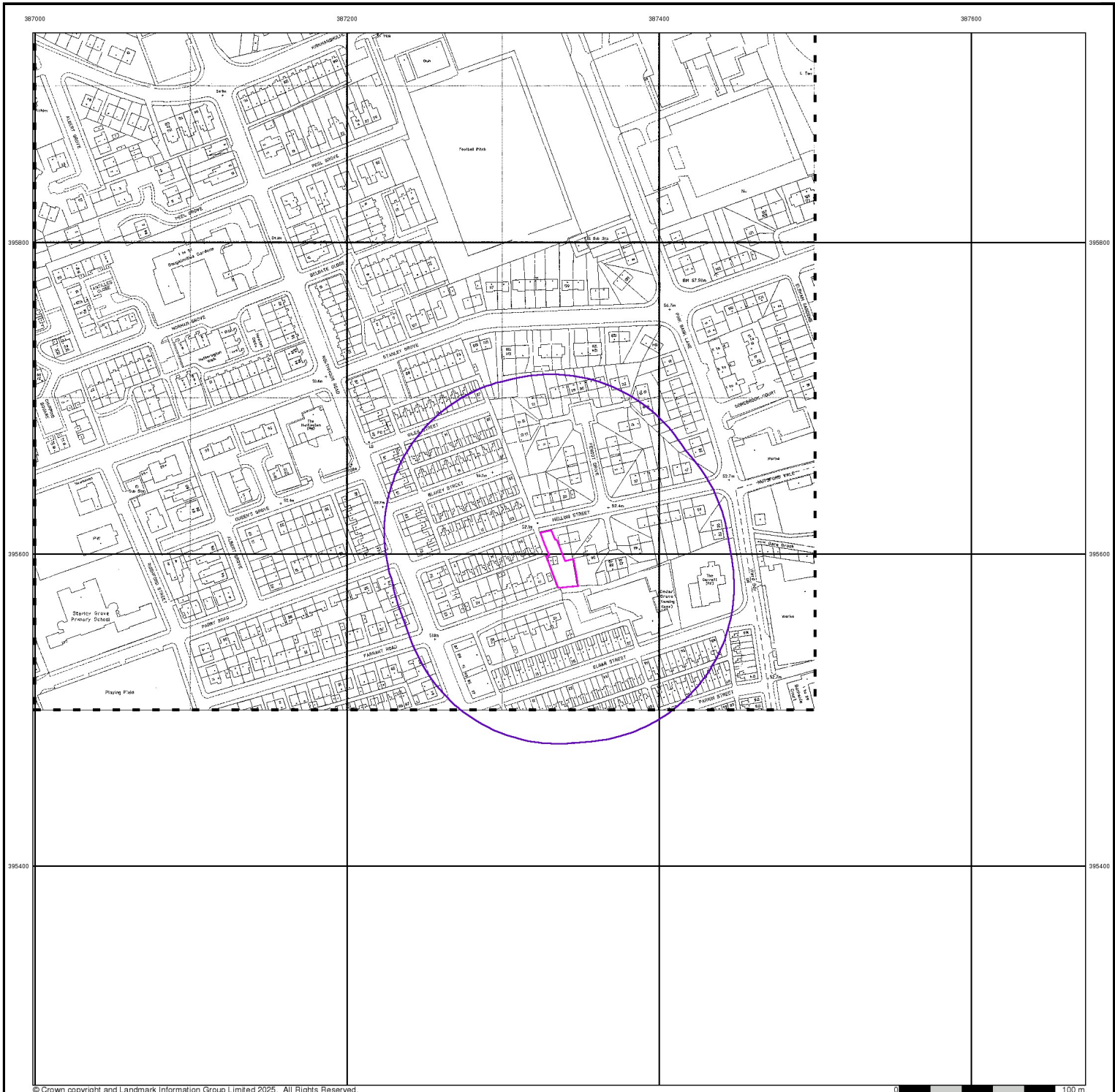
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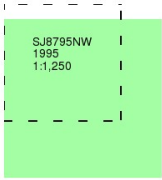
Large-Scale National Grid Data

Published 1995

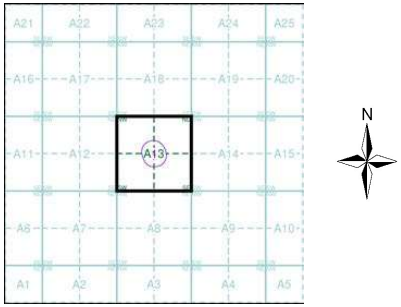
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	391217610_1_1
Customer Ref:	ES011225
National Grid Reference:	387340, 395600
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

Site Details

30, Melling Street, Manchester, M12 4PH

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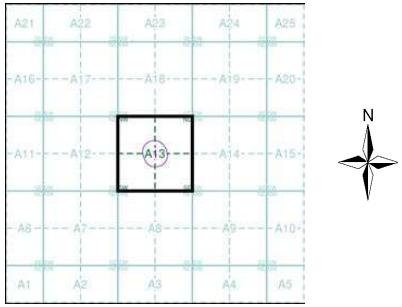
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Historical Aerial Photography

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
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
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

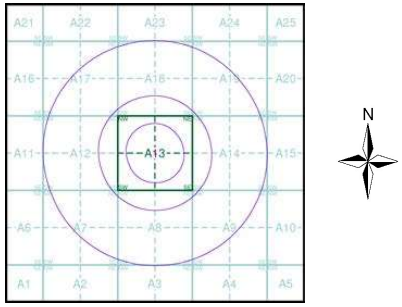
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Historical Mapping & Photography included:

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
Cheshire	1:10,560	1899	6
Lancashire And Furness	1:10,560	1908 - 1909	7
Cheshire	1:10,560	1911	8
Lancashire And Furness	1:10,560	1923	9
Lancashire And Furness	1:10,560	1933 - 1934	10
Lancashire And Furness	1:10,560	1938	11
Cheshire	1:10,560	1938	12
Ordnance Survey Plan	1:10,000	1955 - 1956	13
Ordnance Survey Plan	1:10,000	1965 - 1968	14
Manchester	1:25,000	1975	15
Ordnance Survey Plan	1:10,000	1976	16
Ordnance Survey Plan	1:10,000	1981 - 1985	17
Ordnance Survey Plan	1:10,000	1987	18
Ordnance Survey Plan	1:10,000	1990 - 1993	19
10K Raster Mapping	1:10,000	1999	20
10K Raster Mapping	1:10,000	2006	21
VectorMap Local	1:10,000	2025	22

Historical Map - Slice A



Order Details

Order Number: 391217610_1_1
Customer Ref: ES011225
National Grid Reference: 387340, 395600
Slice: A
Site Area (Ha): 0.05
Search Buffer (m): 1000

Site Details

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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
- ГЭС — Hydroelectric Power Station
- Radio Station, drawn to scale
- Telephone Station, drawn to scale
- Abandoned Open-pit Mine or Quarry
- сол. — Open-pit Salt Mine
- Pit
- нефть — Oil Deposit or Well
- нефть — Oil Seepage
- отвал — Tailings Pile
- скл. гор. — Fuel Storage Tanks
- газ. — Natural Gas Tank
- 125.4 / 125.1 — Bench Mark
- бур. — Drill Hole
- +2.0 — Burial Mound
- +1.2 — 67.8 — Triangulation Point on Burial Mound
- Fill, раз., платф., Cut — Single-track Railroad
- Small Bridge, ст., Tunnel, тун., Pipe (Culvert) — Double-track Railroad and Station Building
- сосна 24 0.30 — Coniferous Forest
- клен 12 0.20 — Deciduous Forest
- ель береза 20 0.25 — 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

180/12 180/12 — 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
- бум. — Factory or Mill with Chimney
- скип. — Factory or Mill without Chimney
- медн. — Mine or Open Pit Mine
- кам. уг. — Operating Shaft or Mine
- Non-Operating Shaft or Mine
- сол. — Salt Mine
- Tailings Pile
- Pit
- гл. пес. кам. — Stone Quarry
- Gas Pump or Service Station
- Fuel Storage or Natural Gas Tank
- Oil or Natural Gas Derrick
- Small Hydroelectric Power Station
- Power Station
- б.тр. — Transformer Station
- Cemetery
- Burial Mound (height in metres)
- 95.7 — Triangulation Point on Burial Mound
- 92.6 — Triangulation Point
- 52.1 — Bench Mark
- 71.1 — 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
- Width of Road, Steep Grade — Improved Dirt Road (former truck road)
- Small Bridge, ст., Pipe (Culvert), Tunnel — Double-track Railroad with First Class Station
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- +2.4 — River or Ditch with Embankment
- Water Gauge, Direction and velocity of current, 0.2, 135.1, Water Level Mark
- Well
- вдхр. — Water Reservoir or Rain Water Pit
- 156.2 кл. — Spring
- 20 — Isobath with value
- Heavy (Index) Contour Line
- 20 — Contour Line and Value
- Half Contour Line
- 347.1 — Spot Elevation Value
- Coniferous
- Deciduous
- Mixed
- Scrub

Key to Numbers on Mapping

SJ89_Manchester

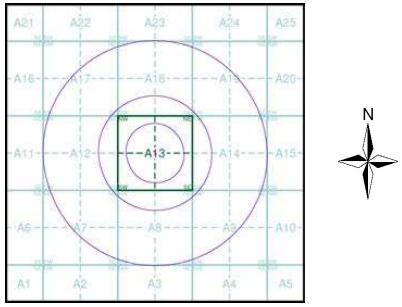
No.	Description
25	Depot (Railway)

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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
Cheshire	1:10,560	1899	6
Lancashire And Furness	1:10,560	1908 - 1909	7
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Manchester	1:25,000	1975	15
Ordnance Survey Plan	1:10,000	1976	16
Ordnance Survey Plan	1:10,000	1981 - 1985	17
Ordnance Survey Plan	1:10,000	1987	18
Ordnance Survey Plan	1:10,000	1990 - 1993	19
10K Raster Mapping	1:10,000	1999	20
10K Raster Mapping	1:10,000	2006	21
VectorMap Local	1:10,000	2025	22

Russian Map - Slice A



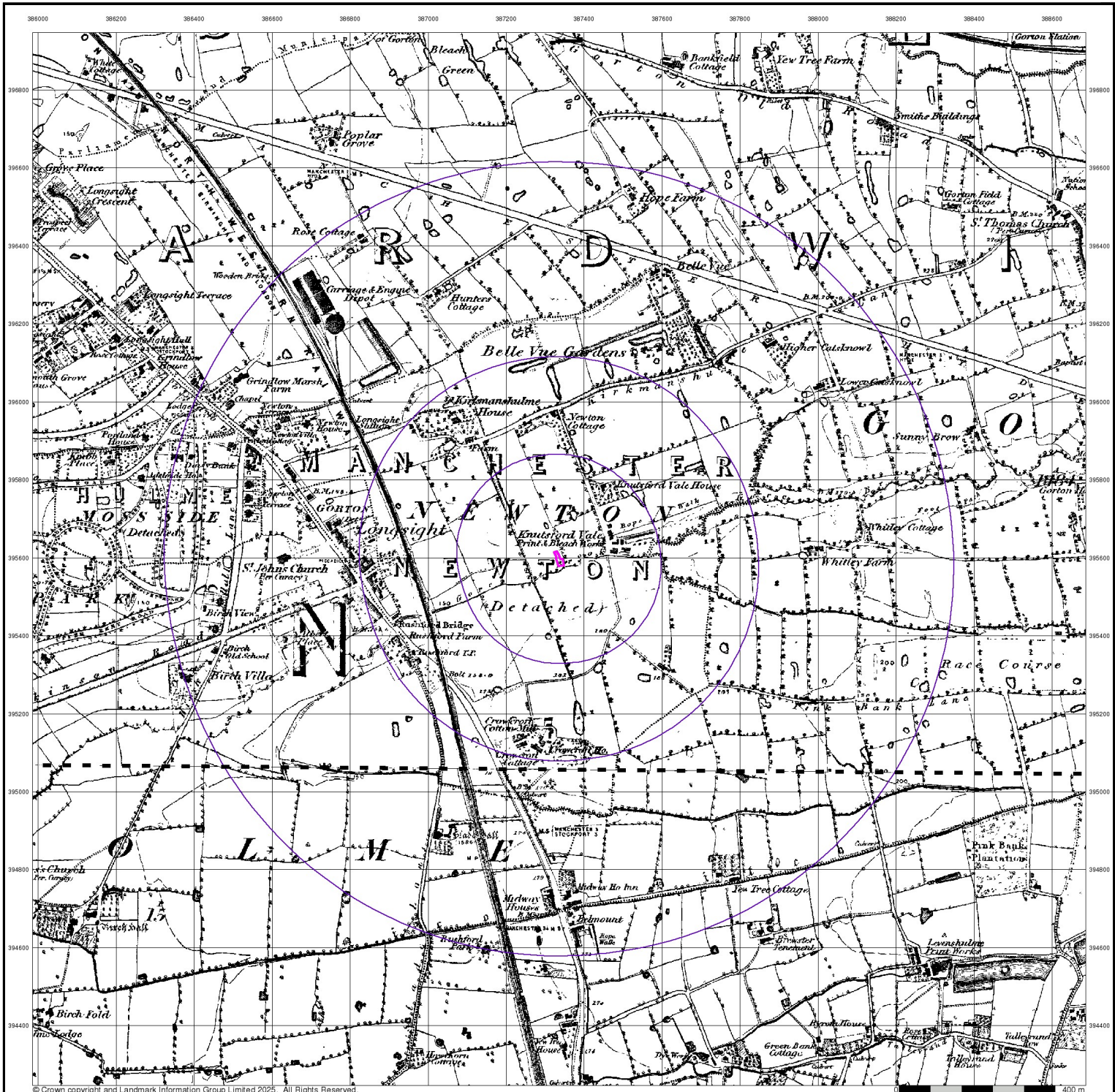
Order Details

Order Number: 391217610_1_1
Customer Ref: ES011225
National Grid Reference: 387340, 395600
Slice: A
Site Area (Ha): 0.05
Search Buffer (m): 1000

Site Details

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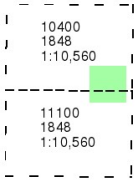
Lancashire And Furness

Published 1848

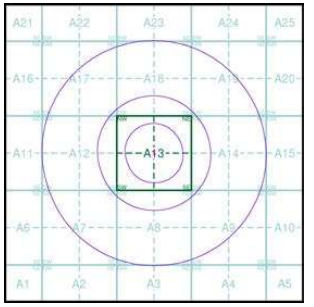
Source map scale - 1:10,560

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



Order Details

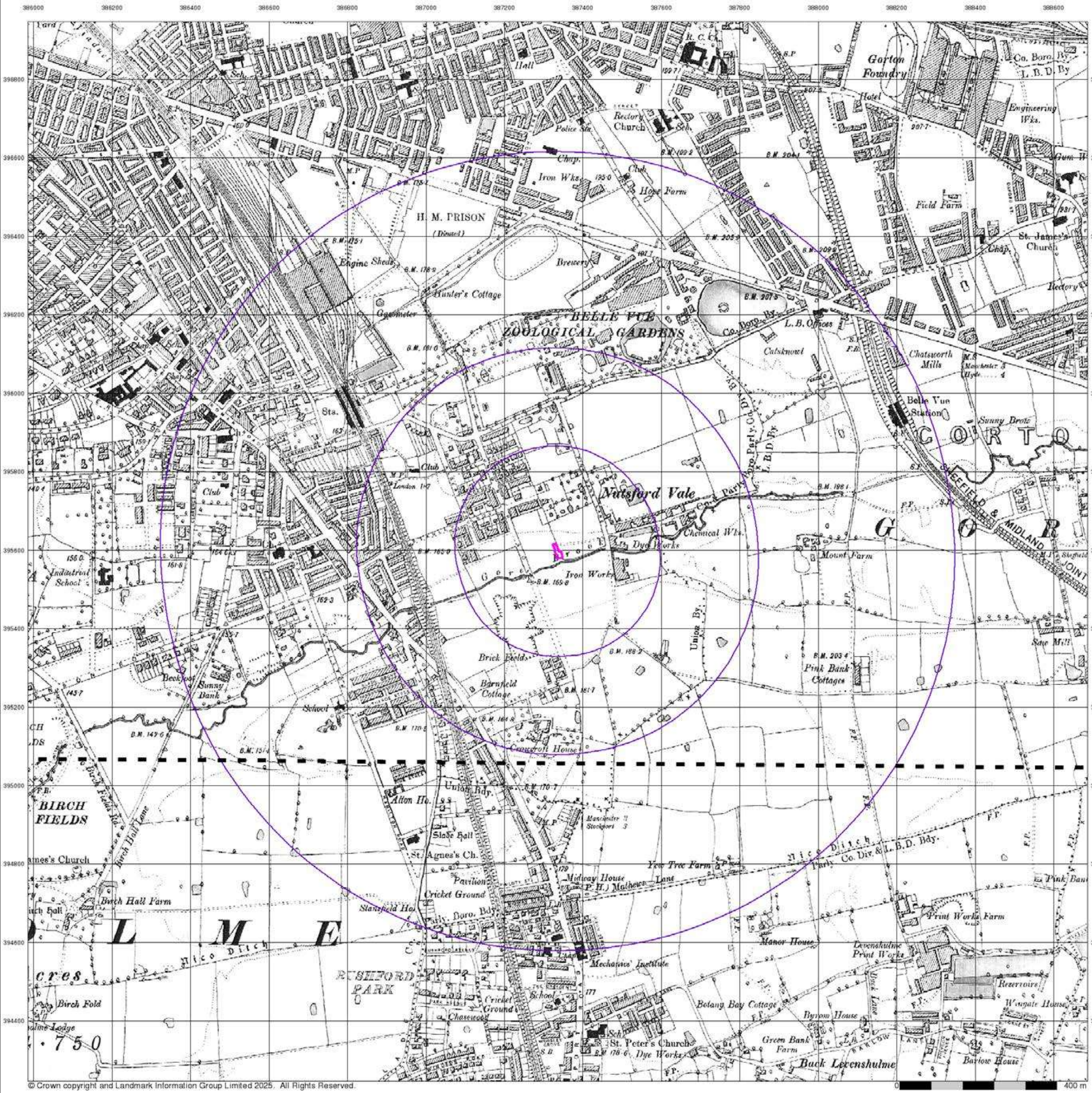
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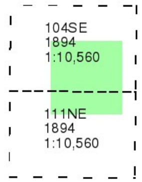
Lancashire And Furness

Published 1894

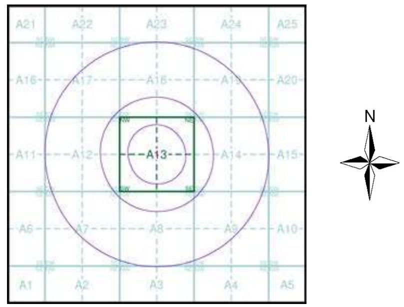
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

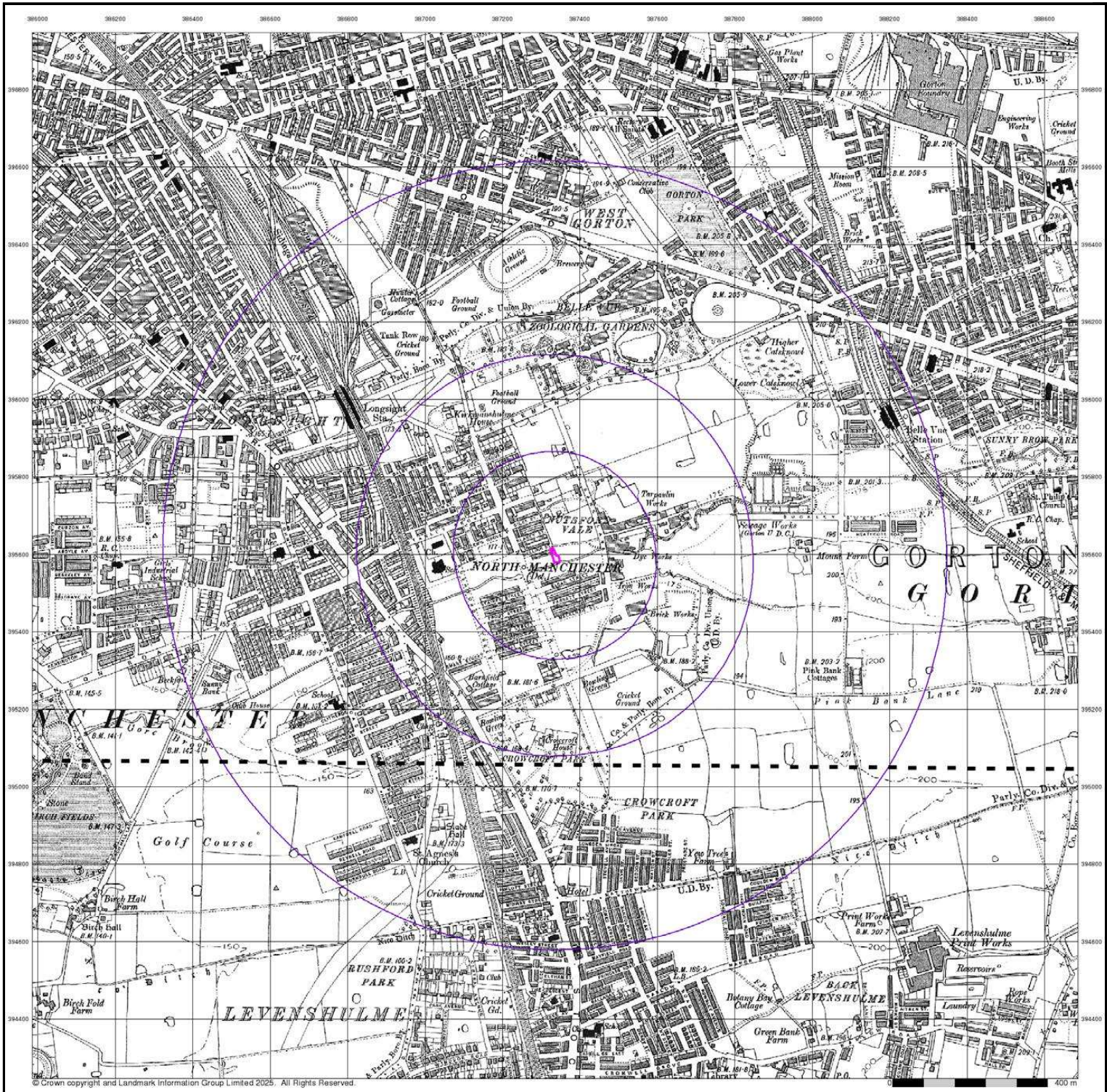
Order Number:	391217610_1_1
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Site Area (Ha):	0.05
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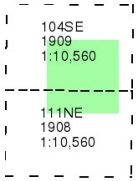
Lancashire And Furness

Published 1908 - 1909

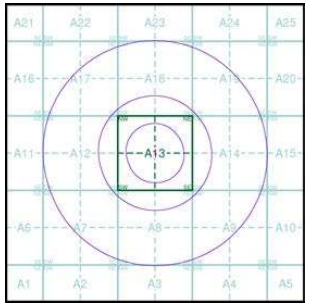
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

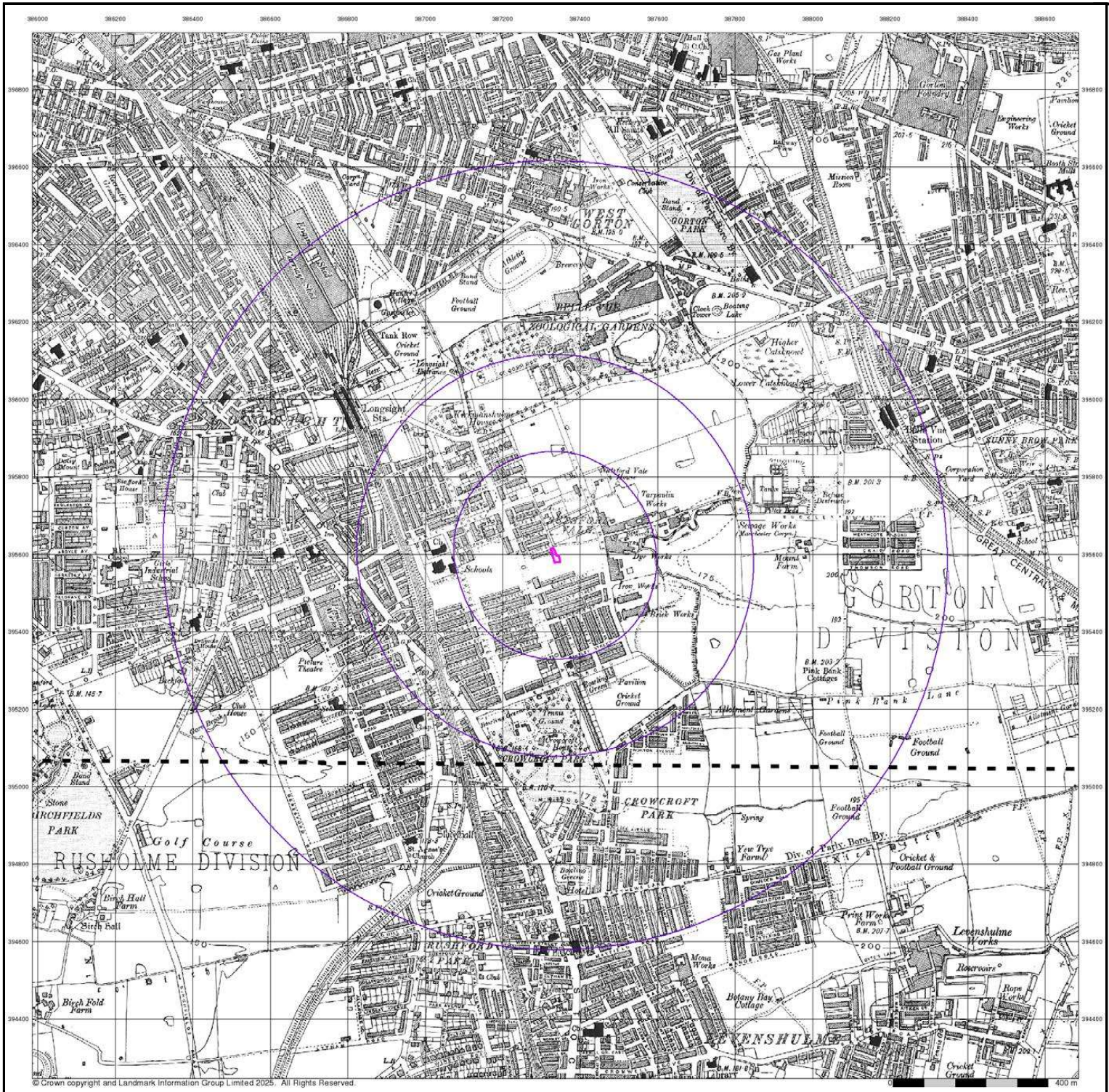
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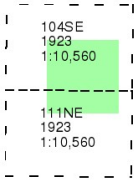
Lancashire And Furness

Published 1923

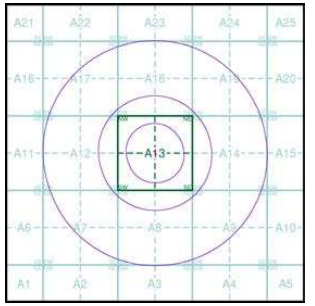
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

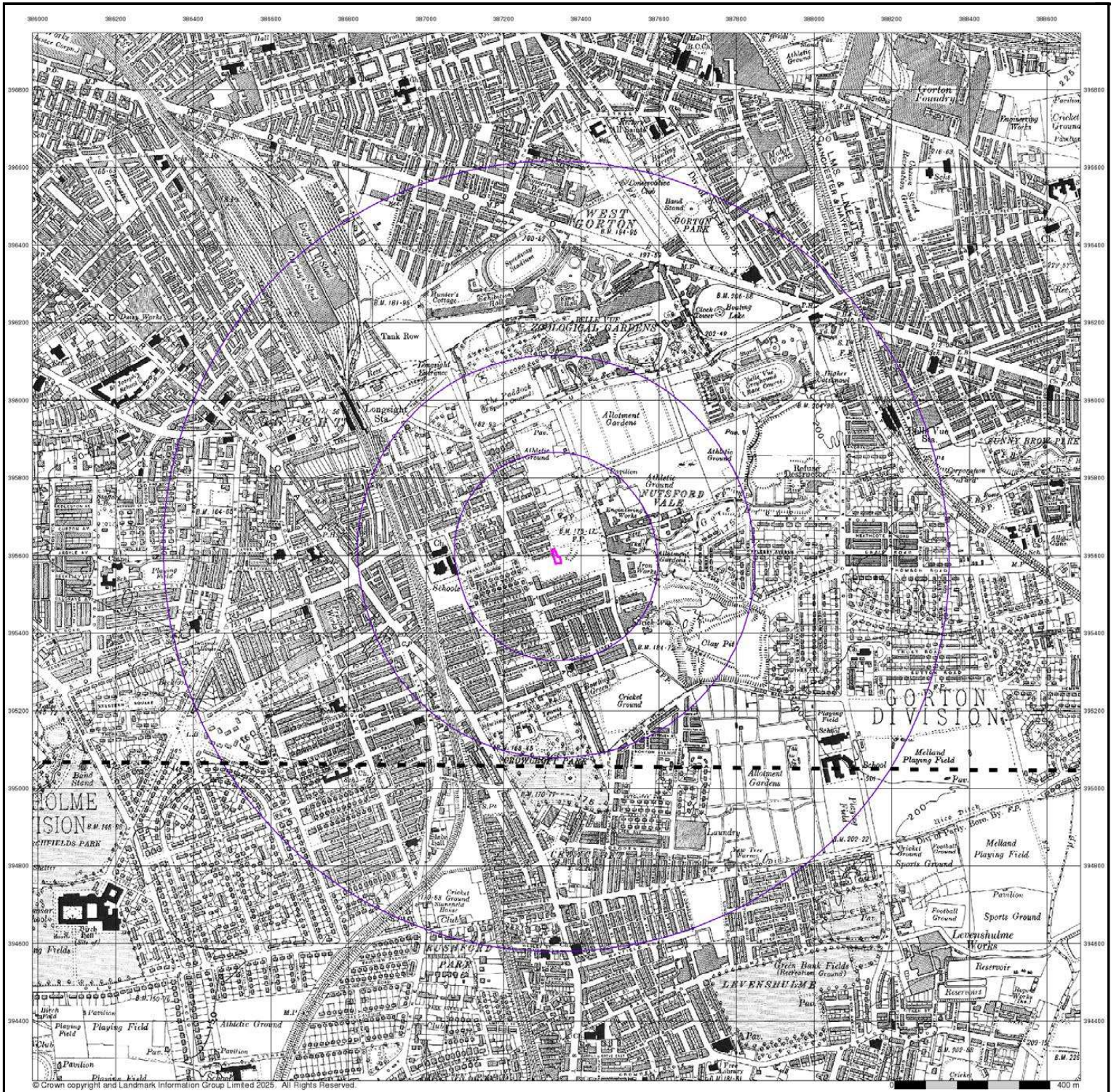
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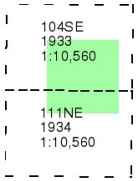
Lancashire And Furness

Published 1933 - 1934

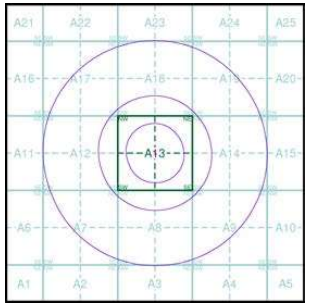
Source map scale - 1:10,560

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

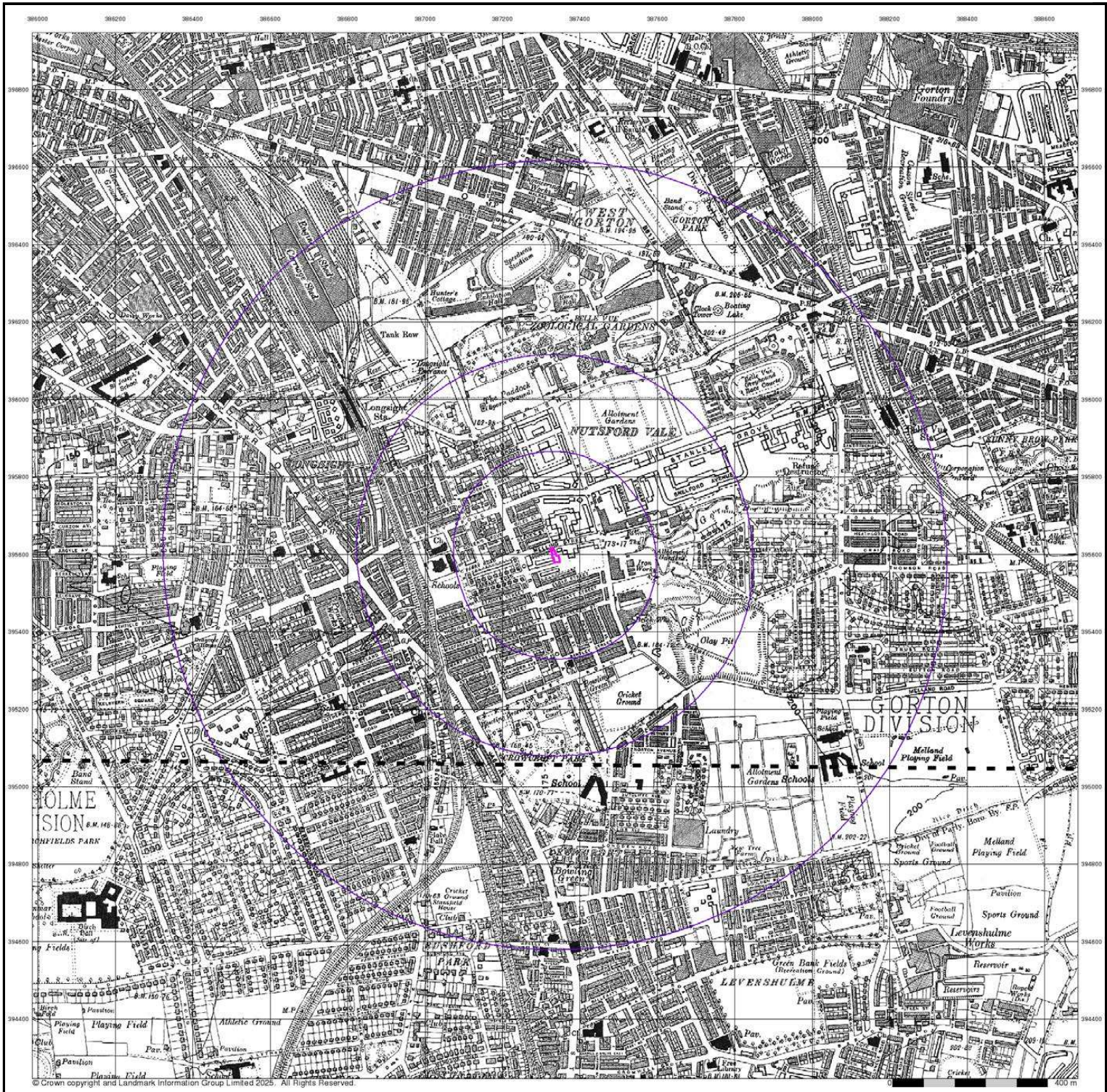
Order Number:	391217610_1_1
Customer Ref:	ES011225
National Grid Reference:	387340, 395600
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

30, Melling Street, Manchester, M12 4PH

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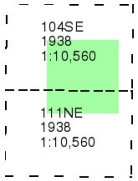
Lancashire And Furness

Published 1938

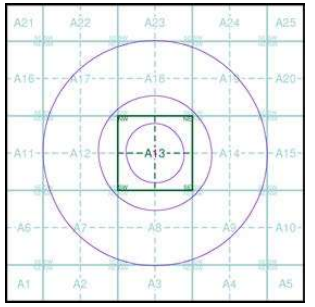
Source map scale - 1:10,560

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)



Historical Map - Slice A



Order Details

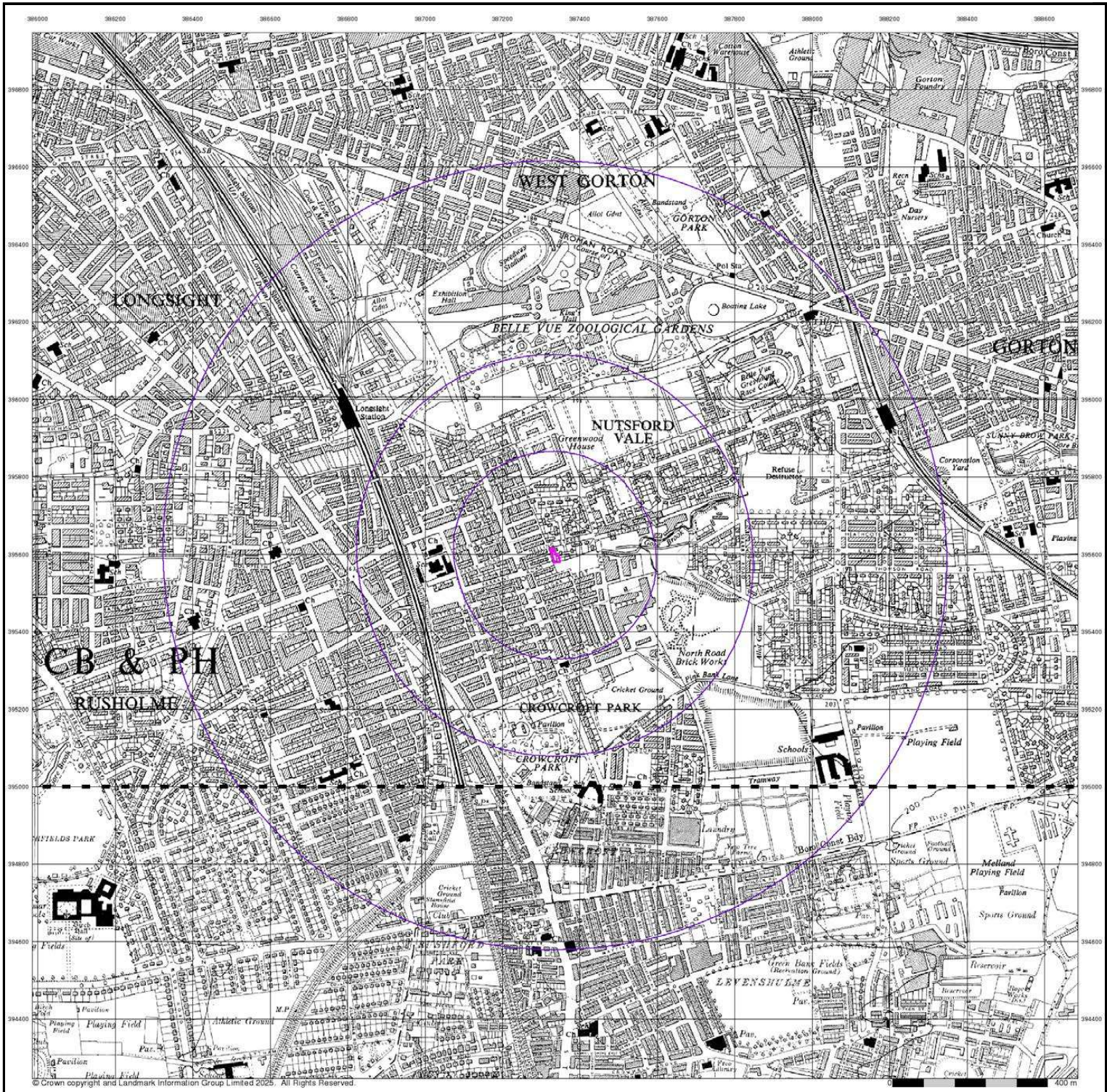
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Customer Ref:	ES011225
National Grid Reference:	387340, 395600
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Search Buffer (m):	1000

Site Details

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Ordnance Survey Plan

Published 1955 - 1956

Source map scale - 1:10,000

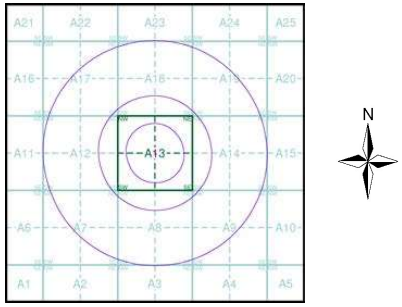
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

SJ89NE
1956
1:10,560

SJ89SE
1955
1:10,560

Historical Map - Slice A



Order Details

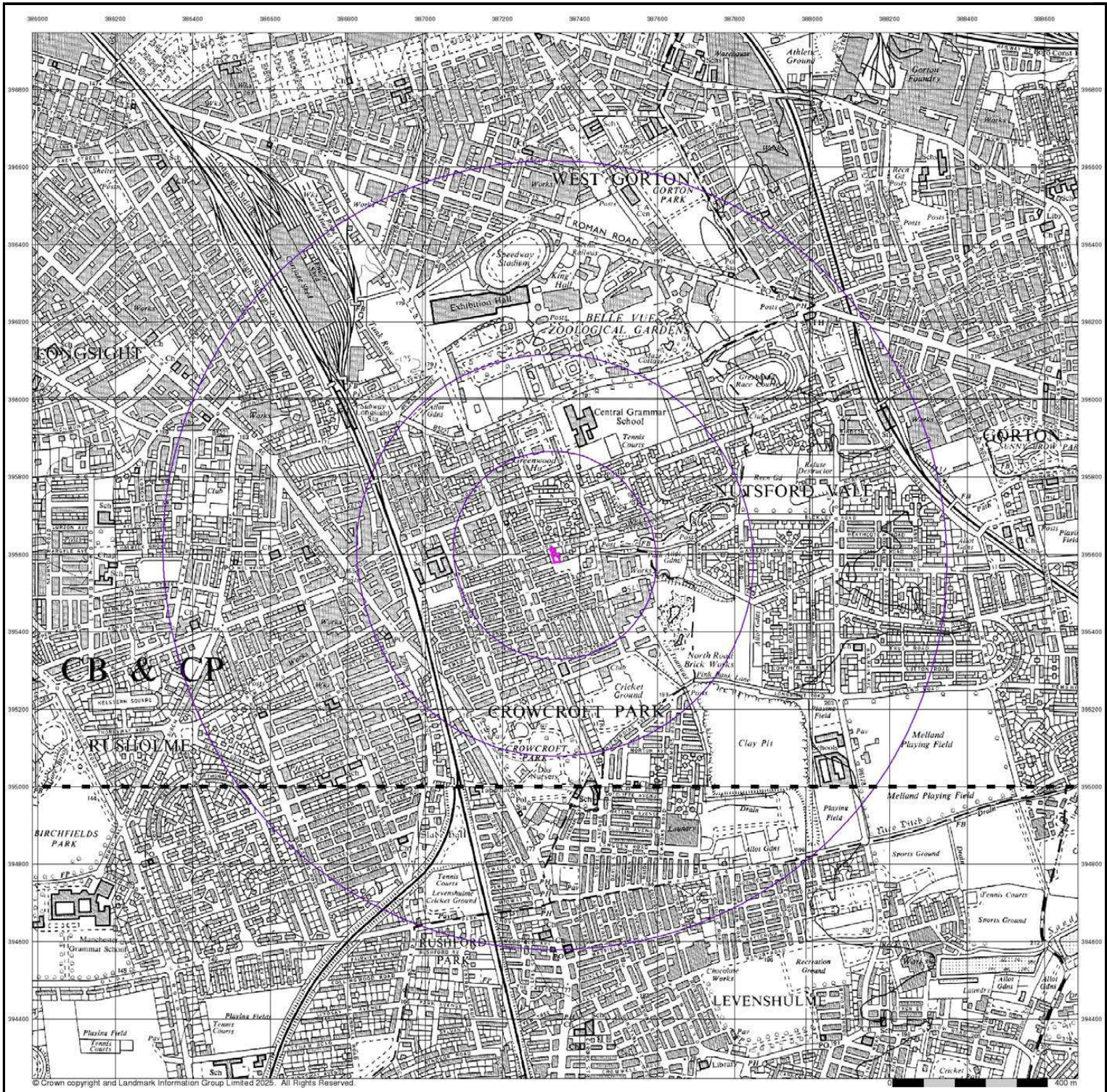
Order Number:	391217610_1_1
Customer Ref:	ES011225
National Grid Reference:	387340, 395600
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

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Ordnance Survey Plan

Published 1965 - 1968

Source map scale - 1:10,000

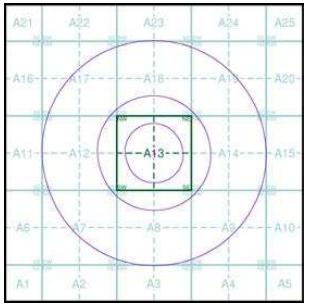
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

SJ89NE
1968
1:10,560

SJ89SE
1965
1:10,560

Historical Map - Slice A



Order Details

Order Number:	391217610_1_1
Customer Ref:	ES011225
National Grid Reference:	387340, 395600
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

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Manchester

Published 1975

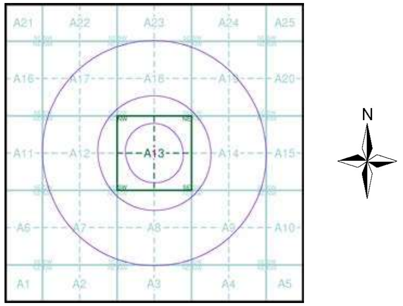
Source map scale - 1:25,000

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

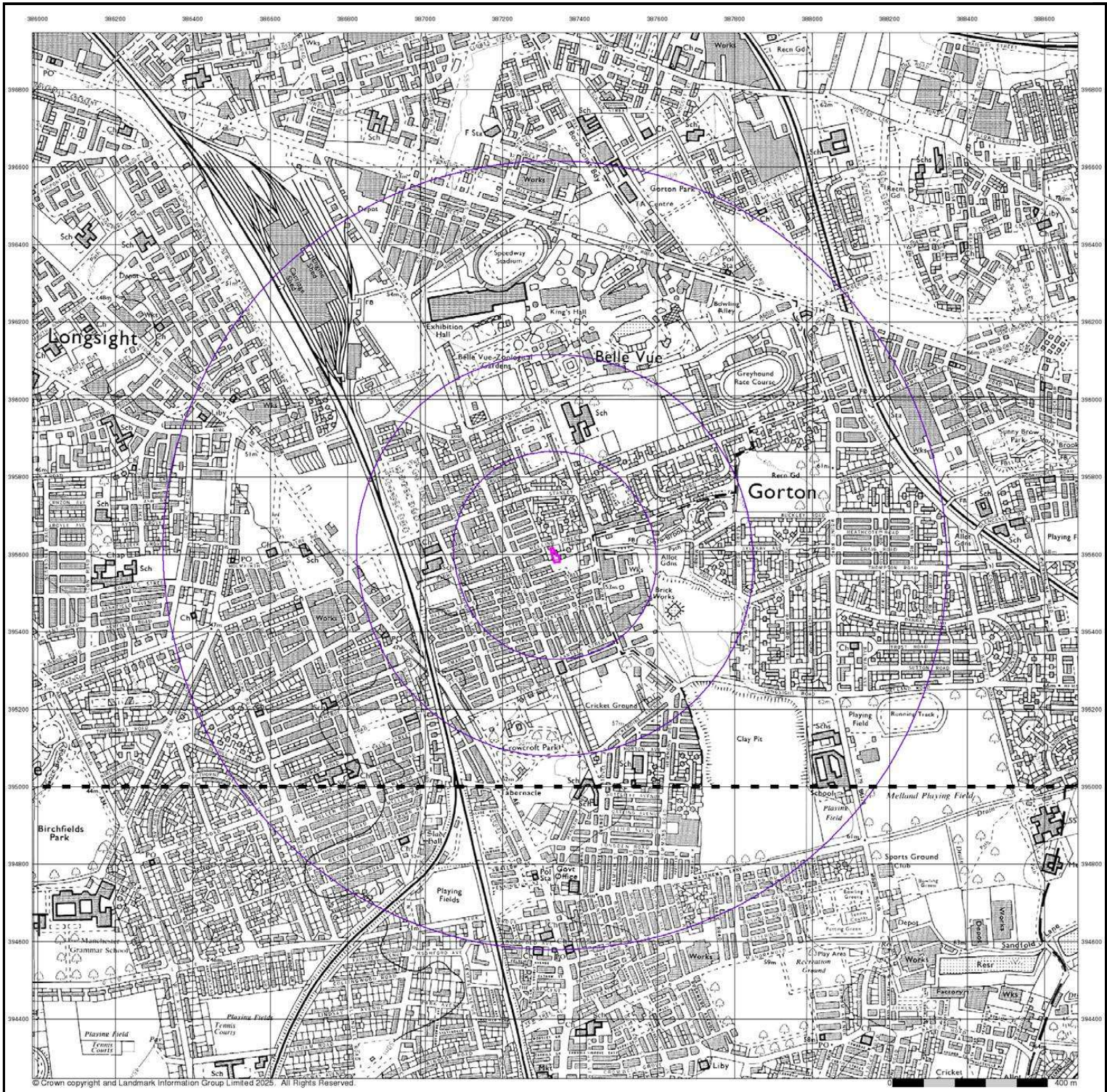
Order Number:	391217610_1_1
Customer Ref:	ES011225
National Grid Reference:	387340, 395600
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Site Area (Ha):	0.05
Search Buffer (m):	1000

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Ordnance Survey Plan

Published 1981 - 1985

Source map scale - 1:10,000

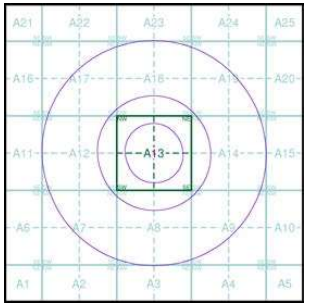
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

SJ89NE
1981
1:10,000

SJ89SE
1985
1:10,000

Historical Map - Slice A



Order Details

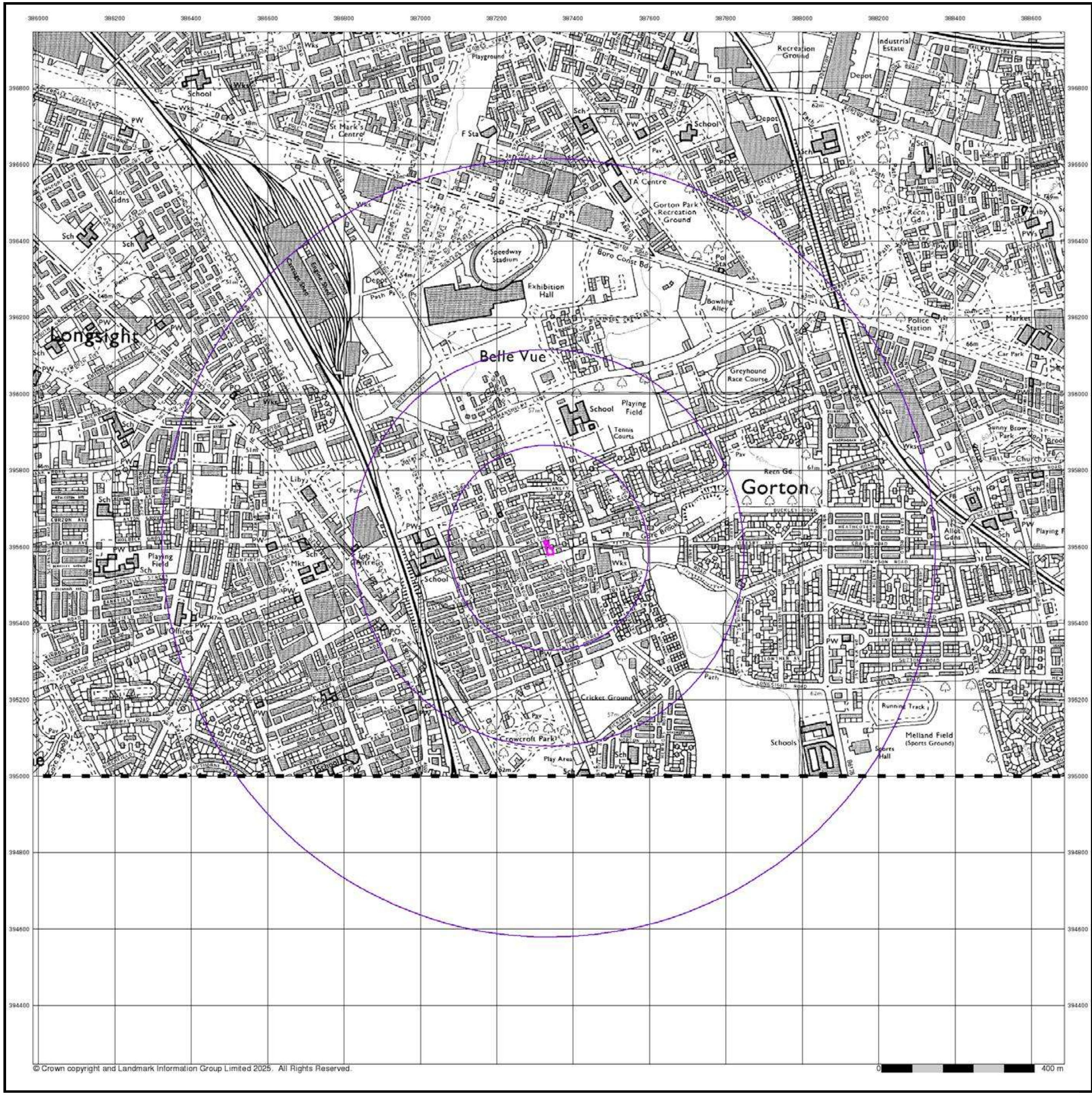
Order Number:	391217610_1_1
Customer Ref:	ES011225
National Grid Reference:	387340, 395600
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

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Ordnance Survey Plan

Published 1987

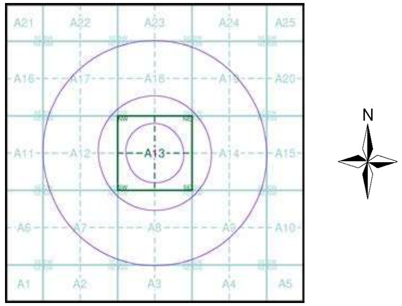
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SJ89NE
1987
1:10,000

Historical Map - Slice A



Order Details

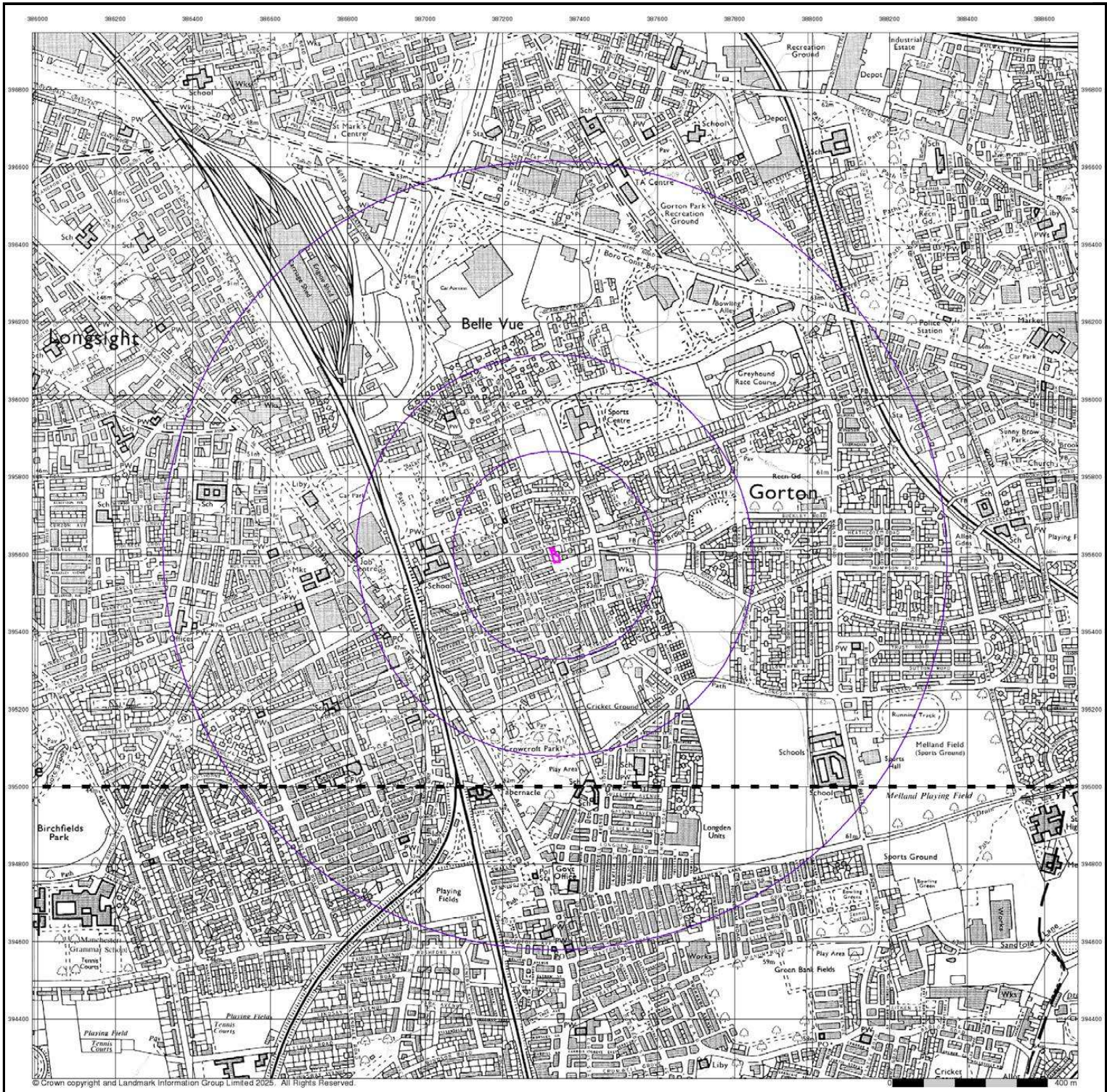
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Customer Ref: ES011225
National Grid Reference: 387340, 395600
Slice: A
Site Area (Ha): 0.05
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1990 - 1993

Source map scale - 1:10,000

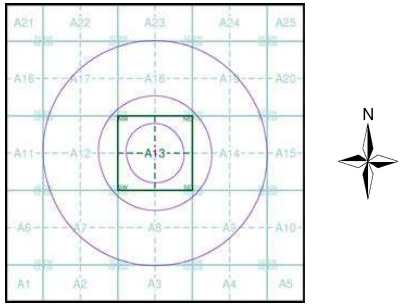
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

SJ89NE
1993
1:10,000

SJ89SE
1990
1:10,000

Historical Map - Slice A



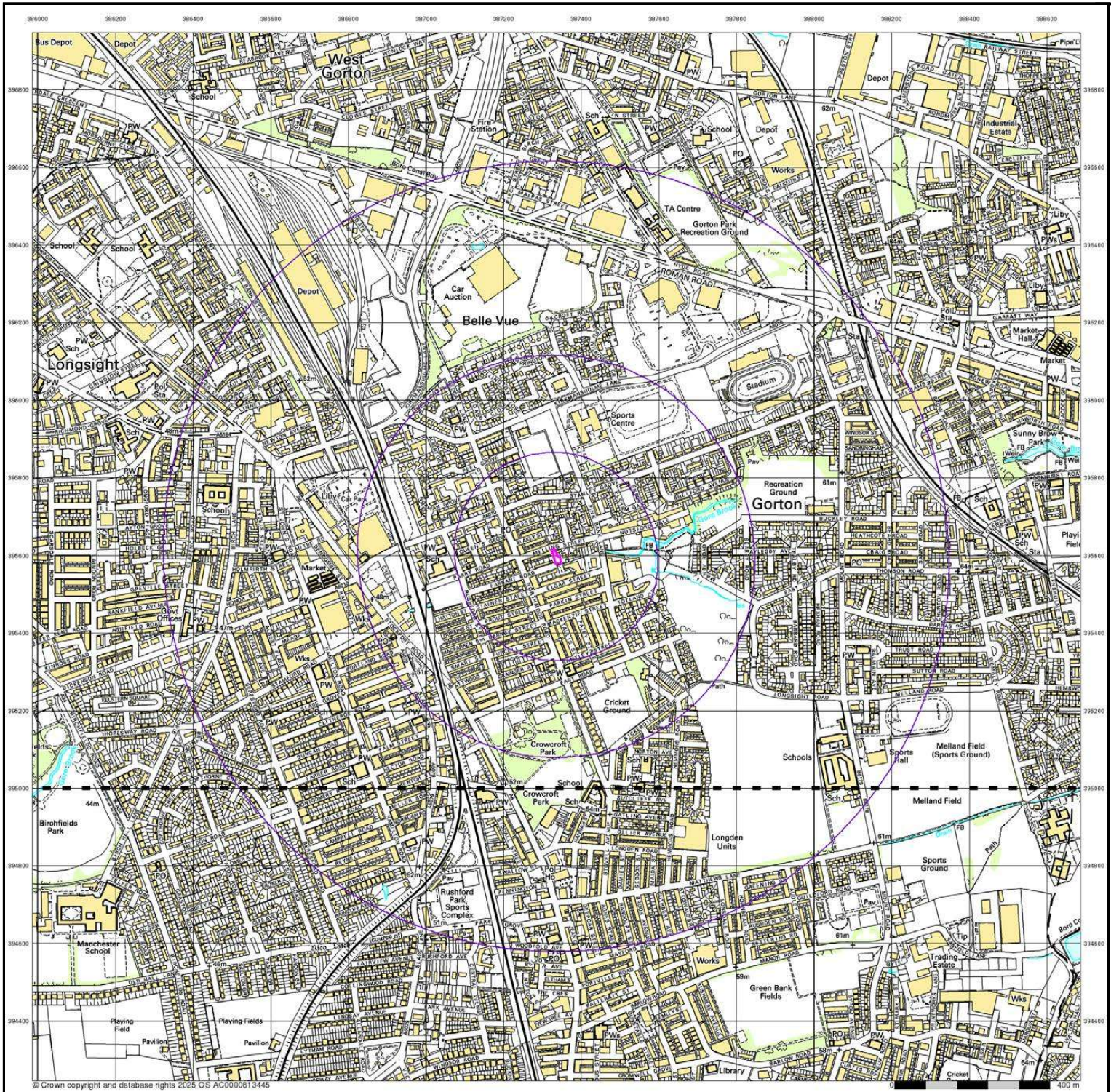
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Customer Ref:	ES011225
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Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

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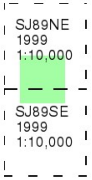
10k Raster Mapping

Published 1999

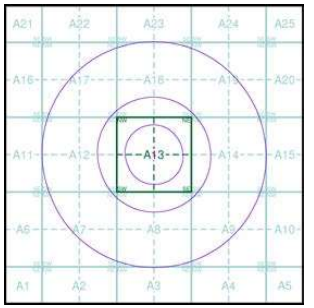
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

Order Number:	391217610_1_1
Customer Ref:	ES011225
National Grid Reference:	387340, 395600
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

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10k Raster Mapping

Published 2006

Source map scale - 1:10,000

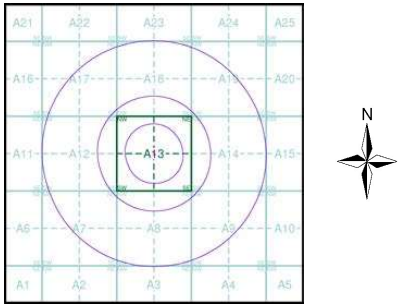
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks 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)

SJ89NE
2006
1:10,000

SJ89SE
2006
1:10,000

Historical Map - Slice A



Order Details

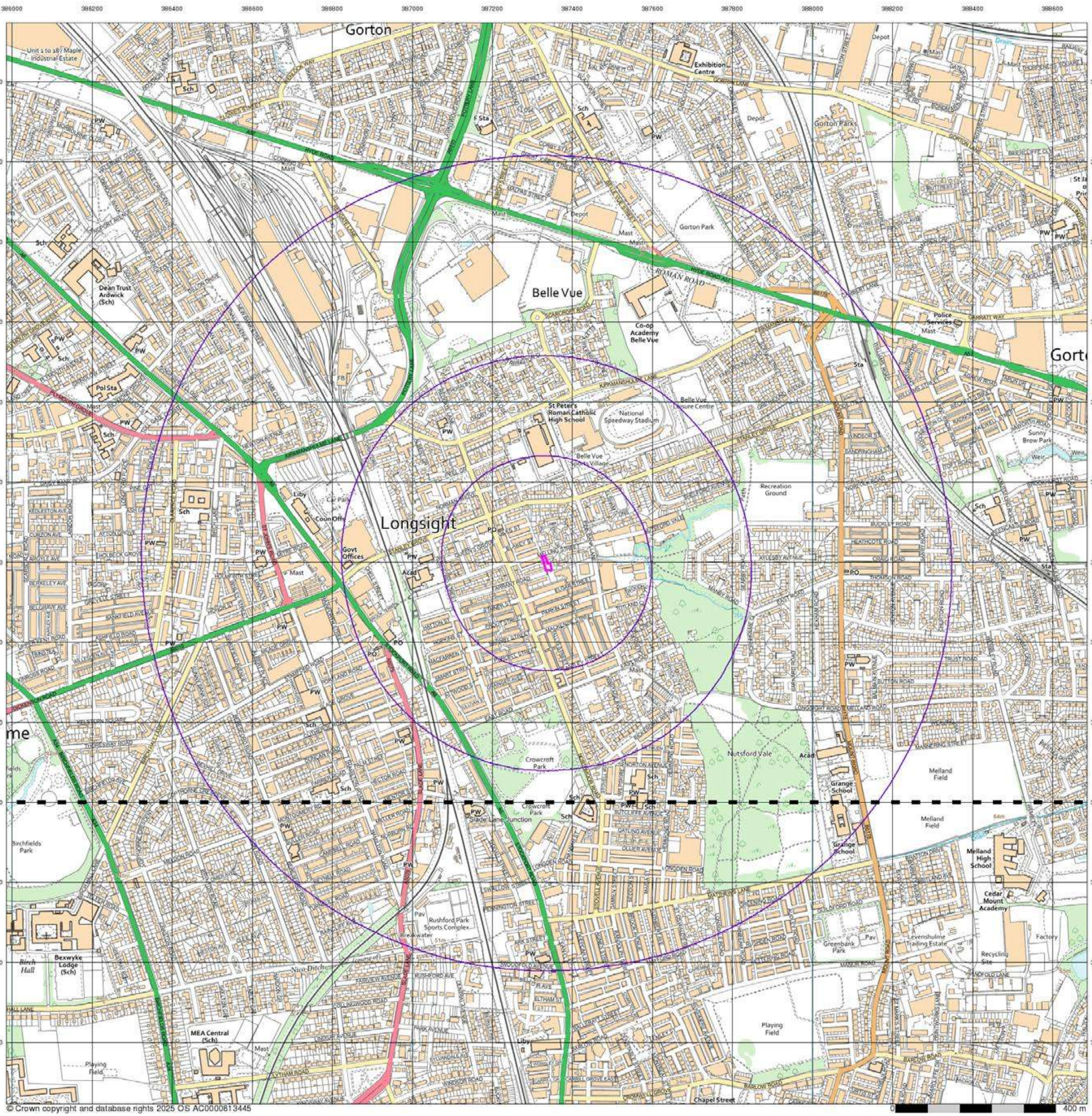
Order Number:	391217610_1_1
Customer Ref:	ES011225
National Grid Reference:	387340, 395600
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

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VectorMap Local

Published 2025

Source map scale - 1:10,000

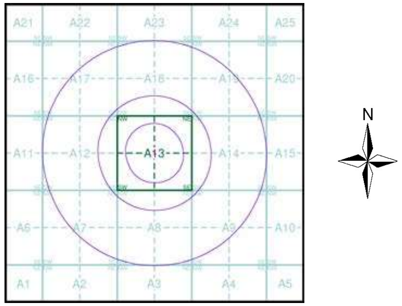
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap 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)

SJ89NE
2025
Variable

SJ89SE
2025
Variable

Historical Map - Slice A



Order Details

Order Number:	391217610_1_1
Customer Ref:	ES011225
National Grid Reference:	387340, 395600
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

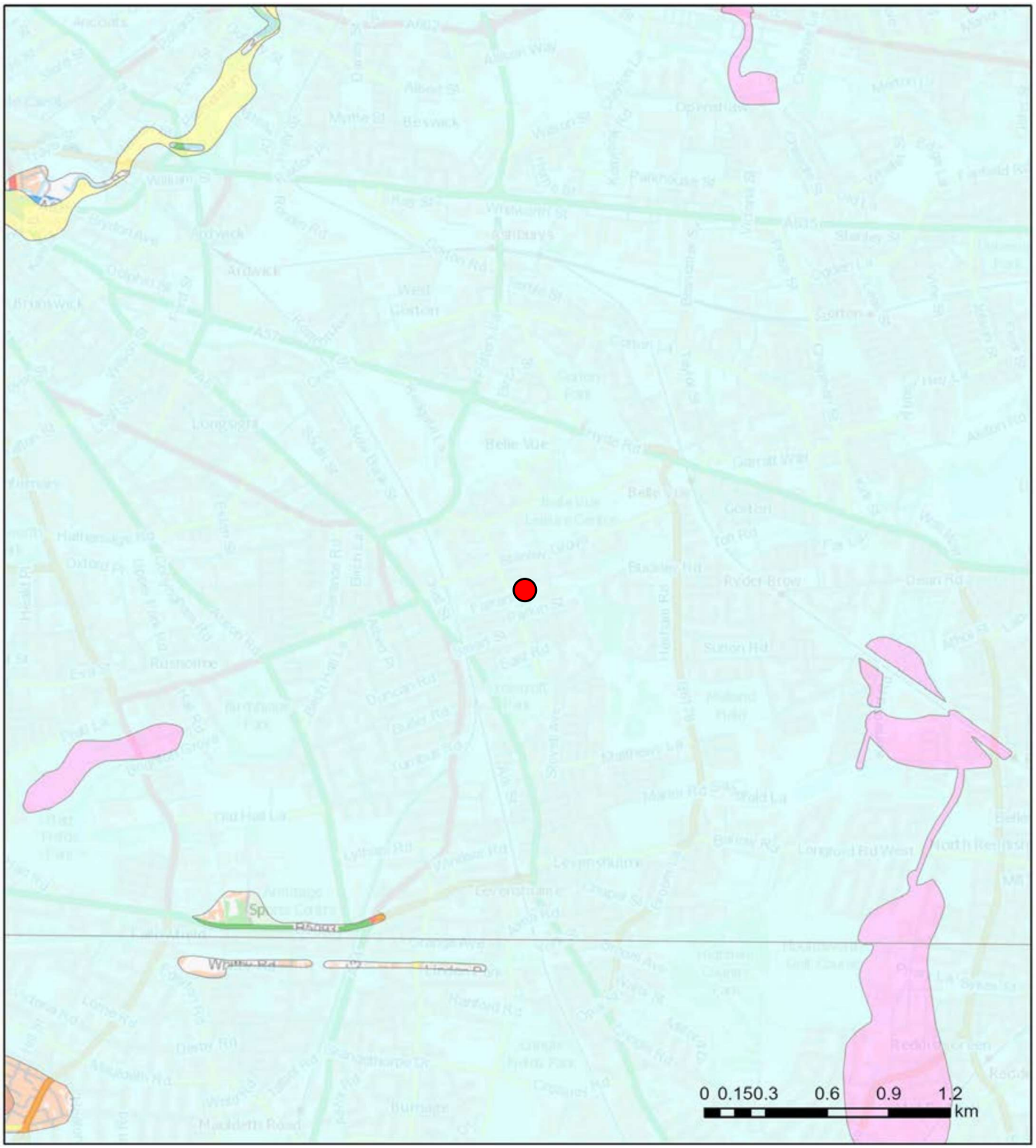
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Appendix D – Geological Maps

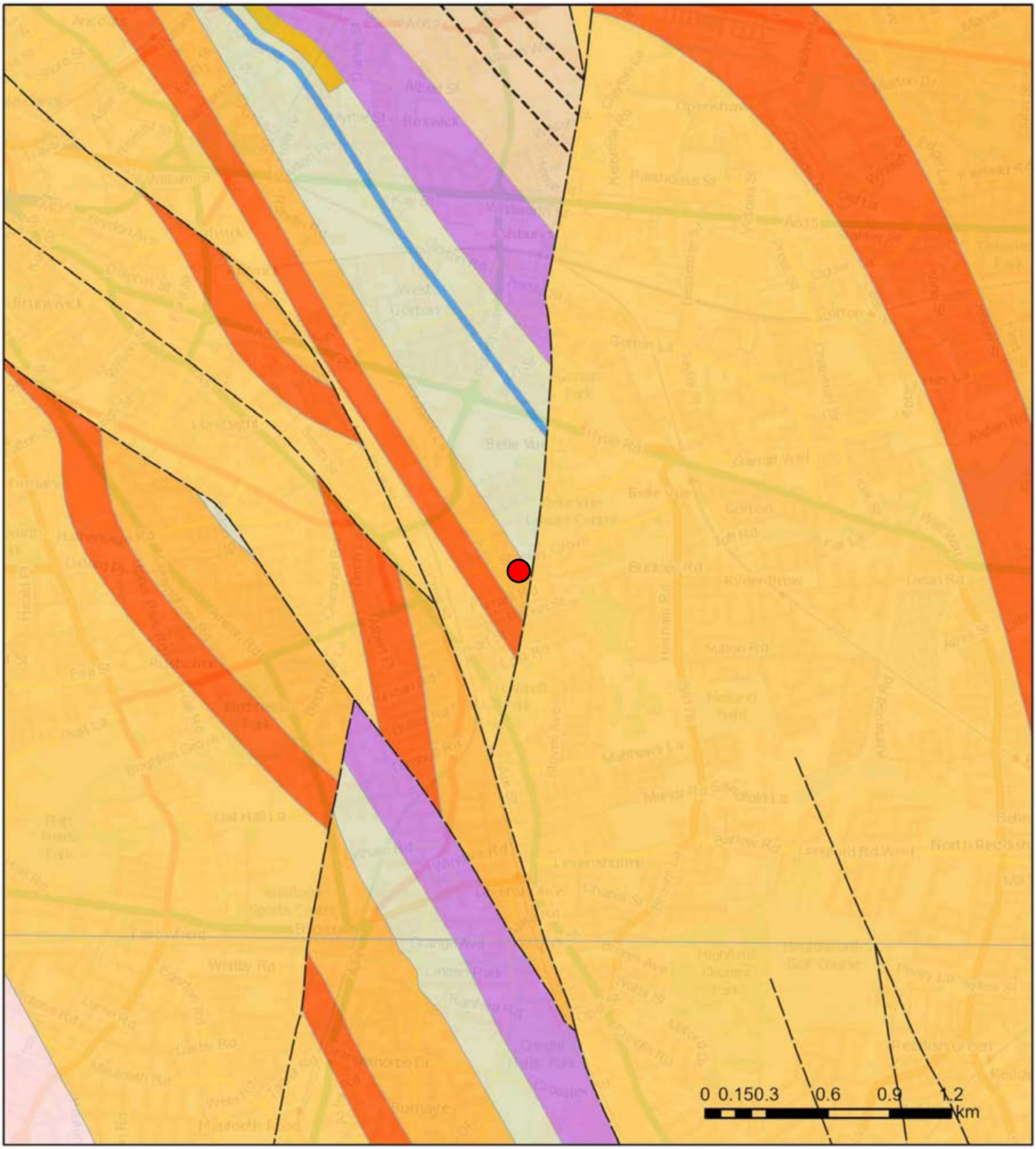
Superficial Geology



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
- Alluvium-Clay, silt, sand and gravel
- River Terrace Deposits, 1-Sand and gravel
- River Terrace Deposits (Undifferentiated)-Sand and gravel
- Shirdley Hill Sand Formation-Sand
- Peat-Peat

Bedrock Geology



Bedrock geology 1:50,000 scale

- Great Mine Limestone-Limestone
- Wilmslow Sandstone Formation-Sandstone
- Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone
- Etruria Formation-Sandstone and mudstone
- Halesowen 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
- Chester Formation-Pebbly (gravelly) sandstone
- Collyhurst Sandstone Formation-Sandstone
- Blenfire Rock-Sandstone
- Newton Heath Sandstone-Sandstone
- Bardsley Rock-Sandstone
- Huncliffe Rock-Sandstone
- Pennine Middle Coal Measures Formation-Sandstone
- Helsby Sandstone Formation-Pebbly (gravelly) sandstone
- Openshaw Sandstone-Sandstone
- Manchester Marls Formation-Mudstone
- Holt Town Sandstone Bed-Sandstone

Linear features 1:50,000 scale

- Buried_channel_Margin
- Coal_seam_Inf
- Fault_Inf_Crossmark_on_downthrow_side
- Fault_Inf_Downthrow_unspecified
- Marine_band

Appendix E – BGS Borehole Records

Ref: SJ89NE1842

SITE INVESTIGATION FOR **MAIN DRAINAGE**	DATE COMMENCED **26.9.84**
LOCATION **NORTHMOOR ROAD** REF:	BORING METHOD **SHELL AND AUGER**
BOREHOLE No. **3 (Sheet 1 of 2)**	BORING DIAMETER **200mm** 387217
GRID REFERENCE	SCALE: **1 : 50 approx.** 395597

DATE	CASING DEPTH (m)	WATER LEVEL MORNING & EVENING	DEPTH OF STRATA BELOW GL	Reduced Level	DESCRIPTION	No. and Type of Sample	SAMPLE DEPTH PENETRATION From	SAMPLE DEPTH PENETRATION To	No. of Blows	Legend
26.9.84			0.3		Concrete					
					Ashes, cinders, brick pieces etc. with clayey zones.	D1 P2 P3	0.5 1.15 2.15	 1.45 2.45	 7 10	
			3.6							
			4.0		Soft brown sandy CLAY					
			4.6		Stiff brown silty and sandy CLAY with grey fissures, stone and coal inclusions.	U4 D5	4.0 4.45	4.45		
			5.25		Very stiff brown silty and sandy CLAY with grey fissures stone and coal inclusions.	U6	5.0	5.45		
			5.40		Clayey SAND and GRAVEL					
			5.45		Soft brown very silty and sandy CLAY with grey fissures stone and coal inclusions.					
					Very stiff brown sandy CLAY with stone and coal inclusions.	D7 U8 D9	5.45 6.0 6.45	 6.45		
26.9.84	3.2	Dry								
27.9.84	3.2	4.2	7.0							

WATER OBSERVATIONS DURING BORING

DEPTH OF WATER ENTRY (m)	ESTIMATED SEE PAGE	STANDING LEVEL (m)	DEPTH OF CASING WHEN SEALED (m)
4.8	Veryslow	4.8	

WATER LEVEL IN CASED/UNCASED BOREHOLE ON COMPLETION

DATE	WATER LEVEL	DEPTH OF CASING

REMARKS:–

SAMPLE TEST KEY

D – DISTURBED SAMPLE B – BULK SAMPLE U – UNDISTURBED SAMPLE
P – SPT SAMPLE W – WATER SAMPLE

NOTE: WHERE FULL 0.3 PENETRATION HAS NOT BEEN ACHIEVED, THE NUMBER OF BLOWS FOR THE QUOTED PENETRATION IS GIVEN (NOT N – VALUE)

ALL DEPTHS AND REDUCED LEVELS IN (m) UNLESS OTHERWISE STATED

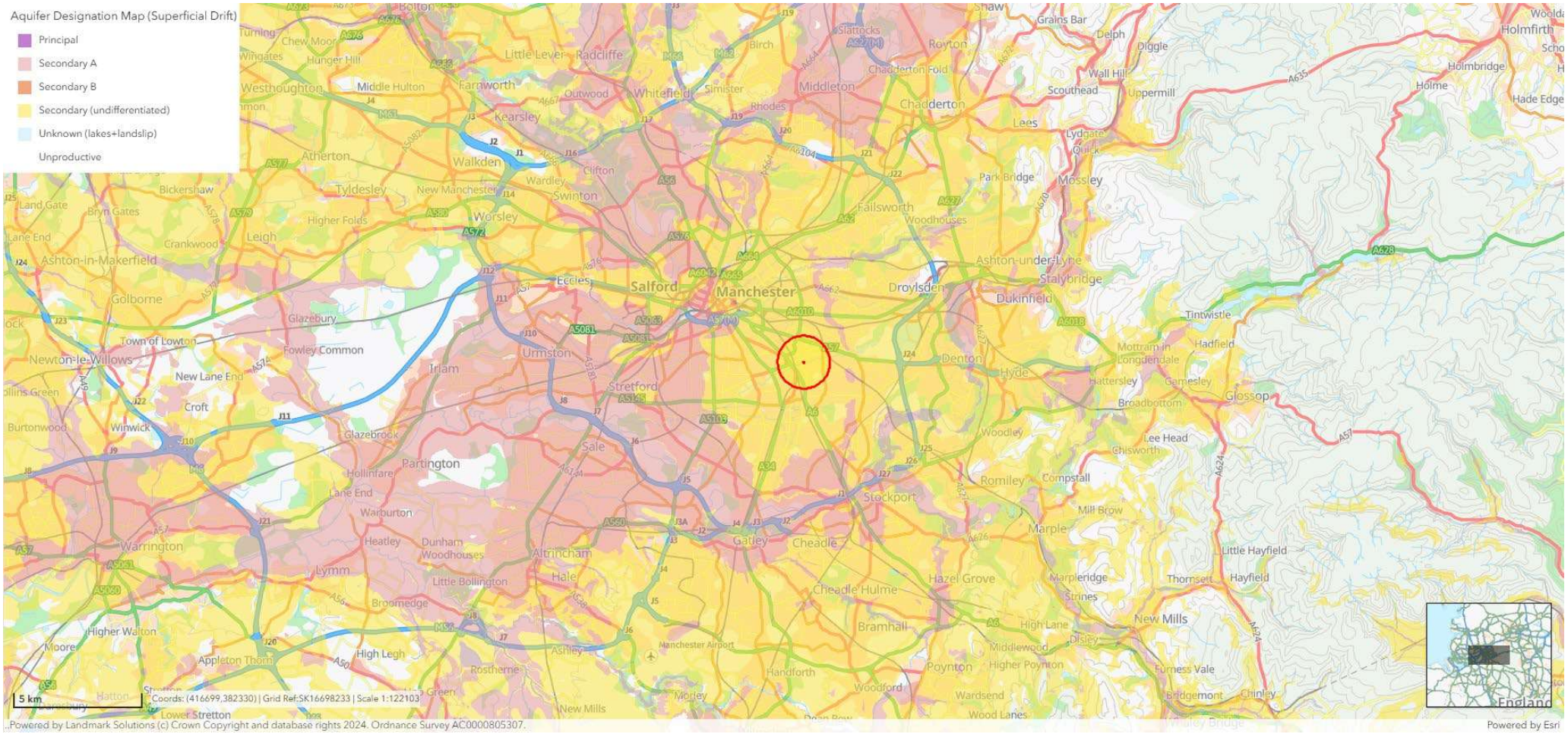
REMARKS

Trial hole excavated to 1.0m below ground level.

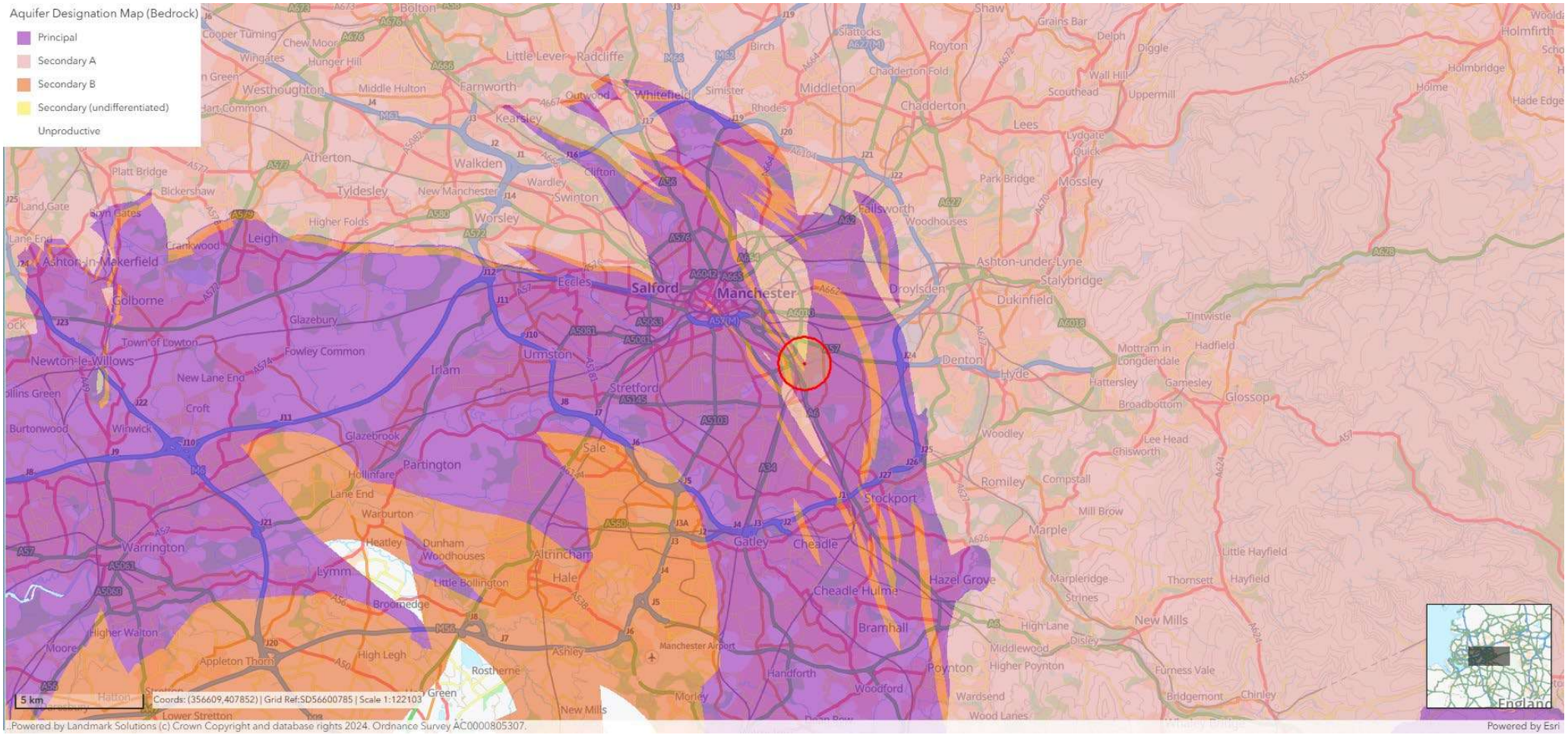
SITE INVESTIGATION FOR **MAIN DRAINAGE**						DATE COMMENCED				
LOCATION **NORTHMOOR ROAD** REF:						BORING METHOD				
BOREHOLE No. **3 (Sheet 2 of 2)**						BORING DIAMETER				
GRID REFERENCE						SCALE:				
DATE	CASING DEPTH (m)	WATER LEVEL MORNING & EVENING	DEPTH OF STRATA BELOW GL	Reduced Level	DESCRIPTION	No. and Type of Sample	SAMPLE DEPTH PENETRATION From	To	No. of Blows	Legend
27.9.84					**Stiff brown silty and sandy CLAY (laminated in parts) with stone and coal inclusions.**	U10 D11 U12 D13 U14 D15	7.3 7.75 8.4 8.85 9.5 9.95	7.75 8.85 9.95 		
			10.00							
					Stiff to very stiff brown silty and sandy CLAY with stone inclusions and sand lenses.	U16 D17 U18 D19 W20	10.4 10.85 11.2 11.65 4.2	10.85 11.65 		
27.9.84			11.65							

Appendix F – Hydrogeology Maps

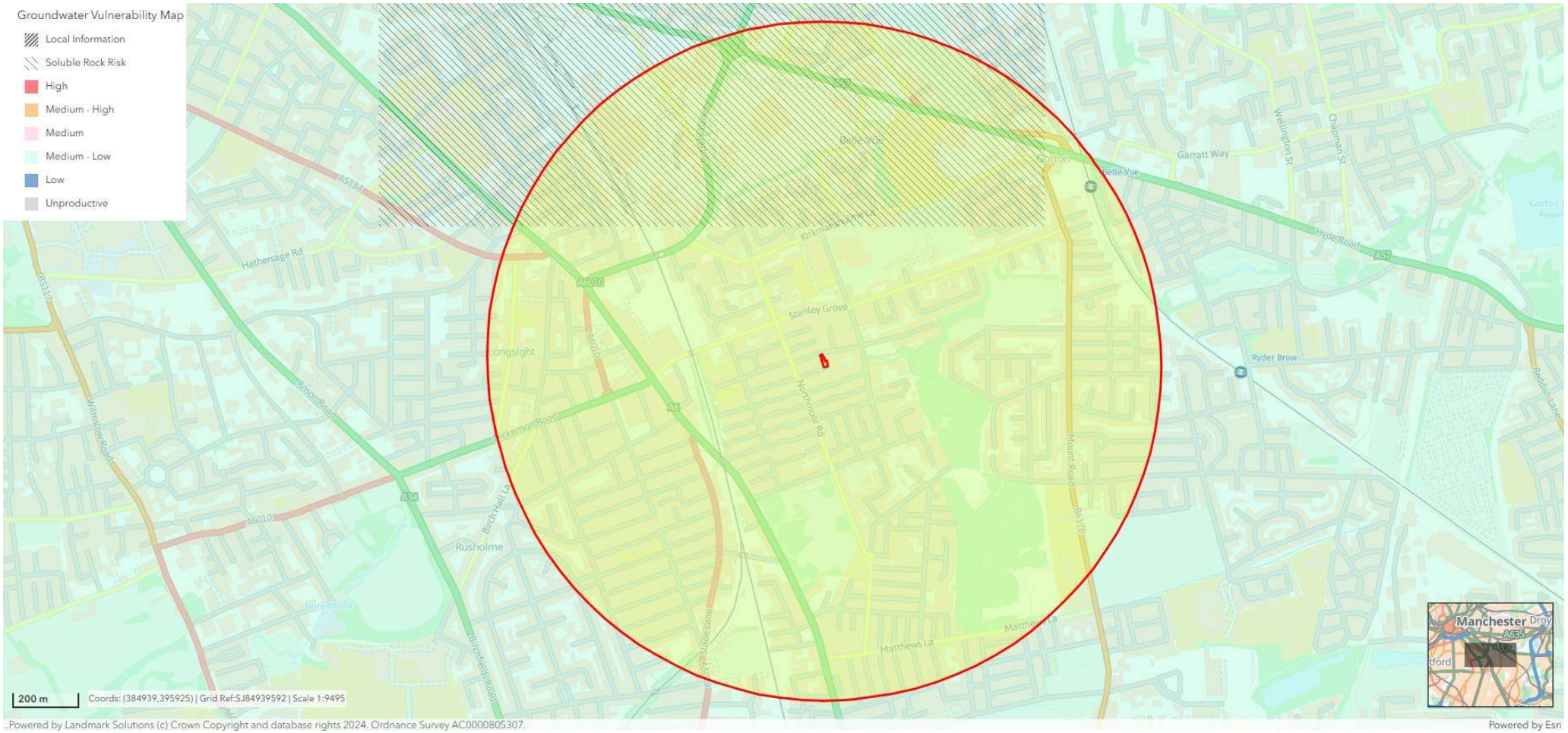
Superficial Aquifer



Bedrock Aquifer



Groundwater Vulnerability

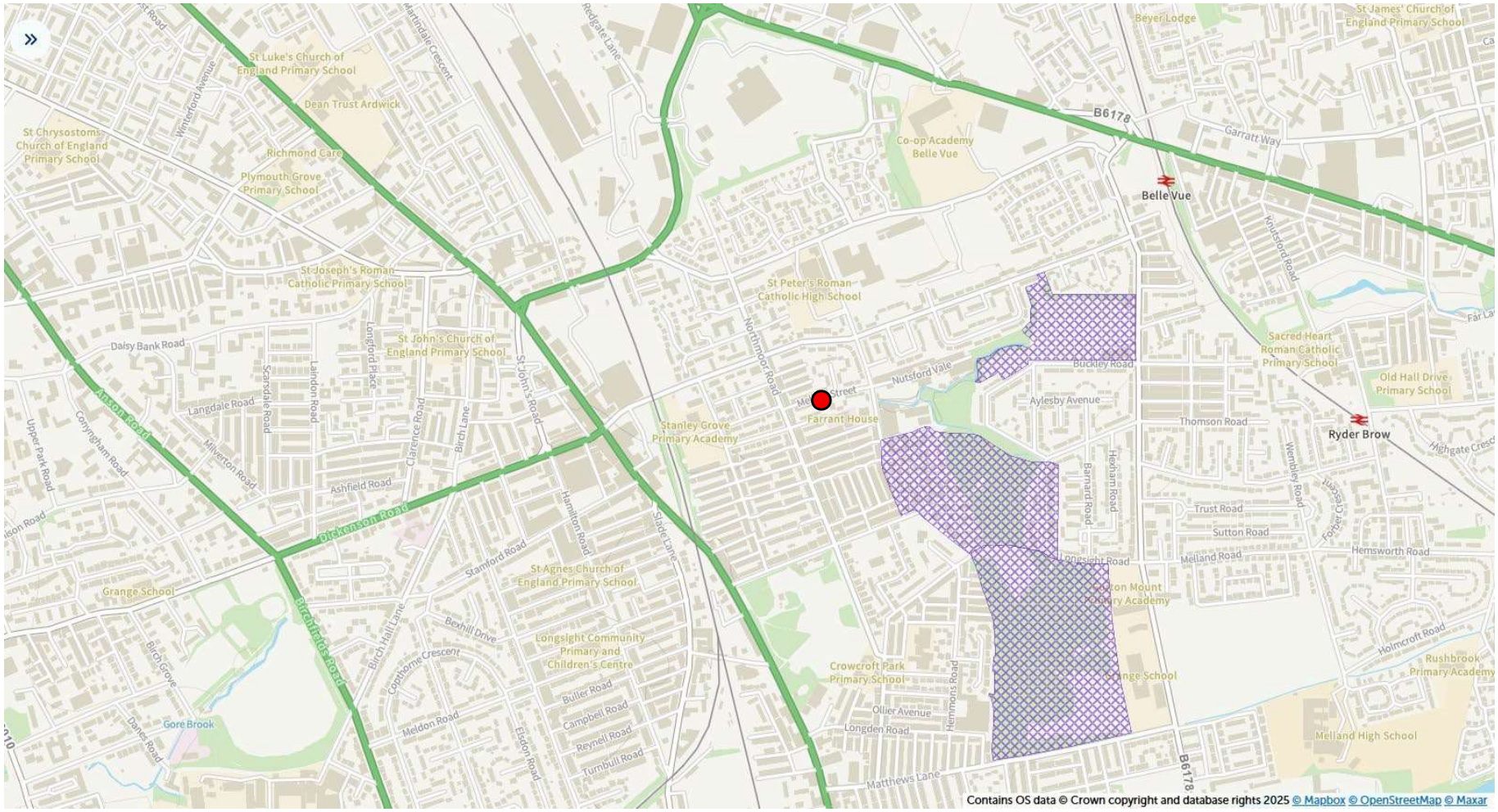


Appendix G – Flood Risk Map



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Appendix H – Historic Landfill Map



enviro | solution	**Historic Landfill Map**