



**PHASE I
GEO-ENVIRONMENTAL
DESK STUDY**

**Residential Development
Norfolk St & Chaloner St
Liverpool
Merseyside
L1 0AU**

**November 2015
Report Ref: 10/0795/001**

Prepared on Behalf of:

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NORFOLK STREET & CHALONER STREET, LIVERPOOL PHASE I GEO-ENVIRONMENTAL DESK STUDY REPORT

Report Reference: 10/0795/001

Date: November 2015

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EXECUTIVE SUMMARY

Client	Baltic 1014 Ltd.
Location	Located off Norfolk Street & Chaloner Street, Liverpool. OS Grid Reference 334720, 389200.
Description	<p>The site covers an area of approximately 0.18 ha and forms a rectangular shaped parcel of land which can be accessed via a locked gate from Norfolk Street to the south.</p> <p>The site is generally flat lying but slopes gently from east to west and is currently vacant with rough vegetation including grass and shrubs present across the entire site. The surrounding area is a mixture of commercial and light industrial land use with retail premises, manufacturers and old warehouses located within close proximity of the site. The Queen Docks are located 80m to the west of the site.</p>
Development	We understand that the site is proposed to be developed with new residential accommodation including a high rise apartment block up to 21 storeys with associated car parking areas and basements.
Site History	<p>The site has been occupied since the 1800's with a warehouse, boat builders and a steam cooperage (manufacturer of tanks, vats and cisterns etc.). These were replaced by 1950 with a chain factory and a smithy in the central and eastern area and a garage, workshop and transport depot with offices in the western part of the site before being demolished in the 1980s. The remaining buildings on site were eventually demolished over the years.</p> <p>The surrounding area has been occupied by heavy industry including a number of saw mills, foundries, paint works, oil works, warehouses, factories, engineering works, print works, wharf and electric railway all located within close proximity.</p>
Geology	Geological Maps indicate that drift deposits are present comprising Devensian Till across much of the site. No superficial deposits are present in the south west and west of the site. Solid strata comprising sandstone of the Helsby Sandstone Formation.
Mining	Coal Authority records indicate that the site is not affected by historic coal mining activity.
Flood Risk	According to Environment Agency records the site is not located within a flood risk area.
Environmental Setting	The underlying solid strata (Helsby Sandstone Formation) are classified as a Principal Aquifer, although the site is not indicated to be within a Groundwater Source Protection Zone. The nearest groundwater abstraction point is located 386m south east of the site used for industrial/public services. The nearest surface water course in the Queens Dock 85m to the west.
Landfilling	<p>There are four historical landfill sites recorded within 500m of the site with the nearest one located 238m to the west. All four were associated with inert and industrial waste. One registered landfill site was recorded 398m to the west of the site accepting combustible, construction and demolition wastes. There are four local authority landfill sites between 221m and 494m from the site.</p> <p>Artificial ground (Made Ground) has also been identified in the area 30m west of the site, at the docks.</p>
Unexploded Ordnance	Given that the site has been completely redeveloped since WWII it is highly unlikely that it will be affected by unexploded ordnance.
Further Works	A number of potential contamination sources have been identified at the site and within the surrounding area which could have caused some form of ground contamination. A detailed Phase 2 site investigation will therefore be necessary to include a contaminated land, gas risk

	assessment and geotechnical appraisal of the site. Full details of which are presented in Section 4 of this report.
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Drawing No. 10/0795/001
Drawing No. P15024-01-05-001_RevC

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Appendix I	Drawings
Appendix II	Historical Maps
Appendix III	Geological Maps
Appendix IV	Site Sensitivity Maps
Appendix V	Environmental Datasheets

1.0 INTRODUCTION

1.1 Background

Clancy Consulting Limited has been instructed by Baltic 1014 Ltd to carry out a Phase I Geo-environmental Desk Study for a site located off Norfolk Street and Chaloner Street in Liverpool. A site location plan is presented as Drawing No. 10/0795/001 in Appendix I.

The site is currently undeveloped and roughly vegetated with long grass and shrubs. We understand that the site is proposed to be developed with new residential accommodation including high rise apartments up to 21 storeys along with basements and associated car parking areas. A proposed development layout plan is presented as Falconer Chester Hall Architects Drawing No. P15024-01-05001_RevC in Appendix I.

1.2 Objectives

The objectives of the study are summarised below:

- Provide a review of the sites land use history by reference to ordnance survey maps of the area.
- Assess the environmental setting, geology, hydrology, hydrogeology, mining and subsidence history of the site and surrounding area.
- Develop a detailed 'conceptual site model' with regard to potential contamination sources, pathways and receptors.
- Provide recommendations regarding the requirement for further investigations, if required, to satisfy the Local Planning Authority.

1.3 Limitations of the Study

Clancy Consulting Limited cannot be held responsible for any omissions, misrepresentation, errors or inaccuracies with the supplied third party report information. The report is written in the context of an agreed scope of work and budget and should not be used in a different context. New information or improved practices and changes in legislation may require a reinterpretation of the report in whole or in part.

Clancy Consulting Limited reserve the right to amend either conclusions or recommendations in light of any further information that may become available. The report is provided for the sole use of Baltic 1014 Ltd for the objectives discussed previously only, and is confidential to them.

The report may not be relied upon by any other party without prior written consent of Clancy Consulting Limited. Those using this information in subsequent assessments or evaluations do so at their own risk.

2.0 DESK STUDY

2.1 Sources of Information

Background information was sought from the following sources:

- Ordnance Survey historical maps (selected copies included in Appendix II).
- British Geological Survey (BGS) Sheets (Appendix III).
- Environment Agency Groundwater Vulnerability Maps (Appendix IV).
- Environmental Datasheets (Appendix V).

2.2 Site Setting and Description

The site is located off Chaloner Street and Norfolk Street in Liverpool at OS Grid Reference 334720, 389200 and covers an area measuring approximately 0.18 hectares. The site forms a rectangular shaped parcel of land bound to the north by Watkinson Street and to the south by Norfolk Street. To the west the site is bound by Chaloner Street and to the east by a car park. Access to the site is from Norfolk Street via a locked gate.

The site is generally flat but slopes gently from west to east and is currently vacant. The site is covered by rough vegetation including long grass and shrubs and is bordered by steel fencing. The surrounding area is mainly commercial and industrial with retail outlets, light manufacturing, car parks and old warehouses located within close proximity.

2.3 Site History

In order to investigate the development history and previous land uses at the site and surrounding area historical Ordnance Survey (OS) maps were examined. Selected copies of the maps are presented in Appendix II.

The Table below is not intended to provide a comprehensive review of all the changes which have occurred at the site and instead provides a summary of the most salient points relating to the development history of the site. The most significant historical land uses are highlighted in bold text for ease of reference.

Table 1 – Site History

Date(s)	Site	Surrounding Land
1890-1893	The site is shown to be occupied by warehouses, boat builders and steam cooperage (manufacturing of vats, cisterns and tanks etc.).	The surrounding area is mixed commercial and industrial with a foundry, ship builders, ice store, engineering works, engine works, colour works, saw mills, timber yard, soap works, cooperage and warehouses within 200m of the site boundary. An overhead electric railway runs 50m east of the site and a goods station is located 220m north of the site. The Queen's Dock is 80m to the west and the Graving Docks 210m to the west comprising sheds, engine works, wharf, cranes and a pumping station .
1908	No significant changes.	A tobacco warehouse has been built 70m to the east along with several oil mills located 150m to the south and 130m to the east.
1927	The site is shown as an engineering works though the site layout does not appear to have altered significantly.	The saw mills and the timber yard south of the site are no longer shown. Engineering works are now present 60m to the north.

Date(s)	Site	Surrounding Land
1950-1969	The central and eastern part of the site is occupied by a chain factory and smithy . The western part of the site is shown as a garage, workshop and a transport depot .	A depot and an oil & print works are now present 20m and 30m to the south of the site respectively and engineering works, bottle and paint stores and lead & brass works between 20m and 60m to the north of the site. Spice mills and warehouses are shown 100m to the north of the site. More engineering works, rubber warehouse and seed warehouse are present adjacent to the eastern site boundary. The tobacco warehouse 70m to the east has been replaced with paint works and garages and chemical works have replaced the oil works 210m to the east. An electricity substation and paint works are shown 90m and 170m to the south east respectively. The pumping station and wharf at the Graving Docks are no longer shown. An oil mill 140m to the east is now warehouses and laundry and the paint works are no longer shown. A furniture factory and engineering works are present between 80m and 160m to the north east of the site. A scrap metal depot and engineering works have replaced the paint works to the south east and engineering works have replaced the spice mills to the north.
1970-1989	No significant changes.	The electricity sub-station to the south east is no longer shown and the oil works 120m to the south have been replaced by a lorry park. The laundry to the east and the goods station to the north are no longer shown.
1983-1989	The western part of the site is now vacant with the garage, workshop and depot assumed to have been demolished .	The bottling works to the south are now shown as works and the lorry park as a scrap yard . The engineering works to the north and the overhead electric railway to the west are no longer shown.
1984-1991	The chain factory in the central and eastern part of the site is now shown simply as a 'factory'.	The works and transport depot to the south are no longer shown and the warehouses adjacent to the east of the site have been demolished and cleared . Further to the east most of the warehouses in the area are no longer present and a hotel and an electricity substation are located 60m and 100m to the west and north west of the site respectively.
2006	No significant changes.	No significant changes.
2015	The 'factory' appears to have been demolished and the site is now shown to be vacant .	No significant changes.

2.4 Geology

The 1:50,000 British Geological Survey (BGS) map for the area (Sheet 096, Liverpool) indicates that drift deposits are present beneath the site comprising Devensian Till (sandy, gravelly cobbly clay) while to the south west and west of the site drift deposits are absent. Solid strata comprise sandstone of the Helsby Sandstone Formation.

There are three BGS historical boreholes located between 100m and 200m to the west and north west of the site which confirm that the sandstone bedrock is present with no or shallow deposits of Made Ground and Glacial Till to depths between 1.75m and 4.50m bgl. These deposits were underlain by weathered sandstone.

Copies of the geological plans are attached in Appendix III.

2.5 Soil Geochemistry

According to the BGS National Geoscience Information Service no elevated background concentrations of arsenic, cadmium, chromium, lead or nickel are anticipated in the natural soils beneath the site.

2.6 Mining & Ground Stability

According to Coal Authority records the site does not lie in an area which has been affected by coal mining.

There are two BGS recorded mineral sites within 1km of the site relating to a historic sandstone opencast quarry and a sand and gravel wharf located 730m east and 845m north west of the site respectively. These features are however sufficiently distant so as not to have any impact on the proposed development.

2.7 Hydrogeology

According to the Environment Agency Groundwater Vulnerability Map (Sheet 16, West Cheshire) the sandstone strata (Helsby Formation) is classified as a Principal Aquifer.

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

There are seven groundwater abstraction points within 500m of the site, with the nearest one located 386m south east of the site used for industrial/public services.

There is one recorded pollution incident to controlled waters within 500m of the site located 331m to the south west associated with miscellaneous-natural pollutants. The incident was deemed to be Category 3 (minor incident) and took place in 1995. This is unlikely to have had any impact on the development site given the classification as 'minor incident' and the distance from the site.

There are two substantial pollution incidents recorded 272m to the north and 435m to the south east of the site associated with inert construction/demolition materials, household waste and commercial waste and with inert construction/demolition materials and asbestos waste respectively. Both incidents were deemed to be Category 2 (significant impact) in respect to land and Category 4 (no impact) in respect to air and water.

Copies of the hydrological site sensitivity maps are included in Appendix IV.

2.8 Hydrology

The nearest surface water course is the Queens Dock located 85m west of the site.

There are no surface water abstractions within 1km of the site.

There is one discharge consent located 184m south of the site relating to public sewage overflow discharge to Queens Dock (licenced revoked in 1995).

There is one pollution incident to controlled waters recorded within 500m of the site located 330m south west of the site relating to a Category 3 (minor incident). This is not considered to have the potential to affect the site given the distance involved.

2.9 Flood Risk

According to Environment Agency records the site is not in an area liable to flooding.

2.10 Radon Risk Potential

The Radon Guidance on protective measures for new dwellings indicates that the site is not in an area affected by radon. Basic radon gas protective measures are therefore not required.

2.11 Landfill Sites

One historical landfill site has been recorded within 250m located 238m to the west, associated with inert and industrial waste. The site was last operational in 1987.

One registered landfill site was recorded at 398m to the west of the site, accepting combustible, construction and demolition wastes as well as excavated natural materials (licence lapsed in 1984).

There are two local authority recorded landfill sites within 250m, located 221m and 245m to the west. The types of accepting waste and the operational dates are not known.

One registered waste treatment and disposal site was recorded 215m to the south east of the site associated with scrap metal, vehicles and white goods. In addition, one licensed waste management facility is recorded 181m to the south east associated with mixed metal recycling.

In addition, artificial ground (Made Ground / fill) has been identified 30m to the west of the site at the docks. The areas with identified artificial ground deposits are presented on the BGS Geological Survey Sheets in Appendix III.

2.12 Industrial Land Uses

The surrounding area is mainly of commercial usage with a number of retail premises and light industrial manufacturers located within close proximity of the site. These include freight forwarders, cleaning services, photocopiers, printers, brewers, packaging manufacturers, recycling centres, food manufacturers, metal workers, garage services, ceramic manufacturers, tyre dealers etc. Many of these entries are however inactive.

Three Local Authority Pollution Prevention and Control permits are recorded within 500m of the site, with the nearest one located 150m to the north west relating to manufacturing of timber and wood-based products.

A comprehensive list of the waste management and industrial premises located within 1km of the site are presented in the Environmental Datasheets in Appendix V.

2.13 Sensitive Land Uses

There are no sensitive land uses recorded within 1km of the site.

2.14 Regulatory Liaison

Clancy Consulting has contacted and requested an environmental information search report from Liverpool City Council (Reference: EIR/412839) on 9th October 2015. When we have a response from the Liverpool City Council, we will update our report accordingly.

3.0 PHASE 1 RISK ASSESSMENT

3.1 General

The “suitable for use” approach is adopted for the assessment of contaminated land and remedial measures are only undertaken where unacceptable risk to human health or the environment can be proven when taking into account the proposed use of the site and environmental setting.

A risk assessment process should be carried out to determine potential hazards to human health and the environment and be based on the “source” “pathway” “receptor” principal. For a potential risk to be present there must be a viable pollutant linkage whereby a contamination source may impact upon a receptor. The absence of one or more of these key components (source, pathway or receptor) prohibits a viable pollution linkage being formed.

3.2 Preliminary Conceptual Site Model

A Preliminary Conceptual Site Model and Risk Assessment has been developed to identify potential contamination sources, migration pathways and receptors within the study area. This was carried out in accordance with CLR11 “Model Procedures for the Management of Land Contamination” (2004) and CIRIA Report C552 “Contaminated Land Risk Assessment – A Guide to Good Practice” (2001).

For a risk to be present there must be a viable pollutant linkage whereby a contamination source can impact on a receptor via a pathway. To carry out the risk assessment an estimate must be made of the potential severity of the risk and the likelihood of the risk occurring. The following Tables set out the criteria for this principal.

Table 2 - Severity of Risk

Severity	Description
Severe	Acute risk to human health likely to result in ‘significant harm’ i.e. very high concentrations of contamination or ground gases. Catastrophic damage to building i.e. by explosion from high gassing sites or VOC concentrations. Major pollution of controlled waters i.e. surface watercourses and Principal aquifers, source protection zones. Short term damage to ecosystems.
Medium	Long term risk to human health likely to result in ‘significant harm’ i.e. elevated concentrations of contaminants or ground gases. Pollution of sensitive controlled watercourses i.e. Principal or Secondary Aquifers. Significant effects on sensitive ecosystems or species.
Mild	Pollution of non-sensitive waters i.e. smaller surface watercourses or unproductive strata. Significant damage to crops, buildings, structures or services i.e. by explosion from sites with medium gassing potential, elevated concentrations of contaminants.
Minor	Non-permanent human health effects i.e. requirement for protective equipment during site works to mitigate health effects. Damage to non-sensitive ecosystems or species. Minor damage to buildings, structures or services.

Table 3 - Probability of Risk Occurring

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

Table 4 - Comparison of Risk & Probability

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

The following potential contamination sources have been identified:

- Made Ground associated with historical uses including steam cooperage, boat builders, warehouses, smithy, transport depot, garage, workshop and chain factory. Made Ground deposits anticipated to be encountered on the site associated with the historical buildings. Significant ground contamination is possible and could include heavy metals, hydrocarbons, PAHs and asbestos. Any Made Ground located at the site is also considered a potential source of hazardous ground gas.
- Asbestos contamination resulting from demolition of historical buildings.
- Off-site sources of contamination from historical industrial activities including saw mills, ship builders, soap works, paint works, oil works and engineering works. These are considered possible sources of leachable / mobile inorganic and organic contaminants as well as hazardous ground gas.
- Off-site Made Ground deposits identified to the east of the site. These deposits are considered possible sources of leachable / mobile inorganic and organic contaminants as well as hazardous ground gas.

Potential pollutant pathways include:

- Dermal contact.
- Inhalation of particulates.
- Migration of leachable contaminants.
- Migration of hazardous ground gases into new structures.
- Acidic ground conditions affecting building infrastructure.

The following contamination receptors have been identified:

- Future site users.
- Construction workers.
- Nearby residents and members of the public.
- Controlled waters (Principal Aquifer).
- Buildings and infrastructure.

A summary of potential pollutant linkages and perceived risks for this site are outlined in the Table below:

Table 5 - Pollutant Linkages & Perceived Risk

Sources of Contamination	Pathways	Receptors	Risk
Inorganic and organic contaminants and asbestos associated with Made Ground	Inhalation and dermal contact of soil particles during site	Current site users	Low/Moderate

from historical land uses and buildings on site including cooperage, factory, smithy, garage, workshop and transport depot. Migration of inorganic and organic contaminants associated with historical industry on site and in surrounding area including saw mills, bottling works, engineering, paint and oil works and identified Made Ground/infilled areas. Potential generation of hazardous gas from Made Ground on site and in local area.	construction works and by future end users.	Future site users	Low/Moderate
		Construction workers during development	Moderate
		Nearby occupants	Low
	Potential movement of mobile contaminants through underlying strata to controlled waters.	Principal Aquifer	Moderate
	Migration of ground gases into proposed new structures at the site.	Future Site Users	Low/Moderate
		Construction Workers During Development	Low/Moderate
		Building Infrastructure	Moderate

In summary the site has been occupied since the 1800's with a warehouse, boat builders and a steam cooperage (manufacturer of tanks, vats and cisterns etc.). These were replaced by 1950 with a chain factory and a smithy in the central and eastern area and a garage, workshop and transport depot with offices in the western part of the site before being demolished in the 1980s. The remaining buildings on site were eventually demolished over the years.

The surrounding area has been occupied by heavy industry including a number of saw mills, foundries, paint works, oil works, warehouses, factories, engineering works, print works, wharf and electric railway all located within close proximity.

Given the history of the site and surrounding area it is considered plausible that ground contamination is present beneath the site. The historical industrial sites (saw mills, oil works, lead and brass works, paint works, engineering works, scrap yards, bottling works etc.) located within 250m of the site should also be considered as potential sources of mobile / leachable contaminants.

A number of potential ground gas sources have been identified, including filled ground in the surrounding area and potential Made Ground deposits on site from historical land uses and demolished buildings.

Drift deposits are present beneath the site comprising Devensian Till (sandy, gravelly cobbly clay) while to the south west and west of the site drift deposits are absent. Solid strata comprise sandstone of the Helsby Sandstone Formation.

The underlying solid strata are classified as a Principal Aquifer, although the site is not indicated to be within a Groundwater Source Protection Zone and no abstractions for potable supply have been recorded within 250m. The nearest surface water course is the Queens Dock located 85m west of the site. There are no surface water abstractions within 1km of the site.

The anticipated Glacial Till deposits which are thought to underlie much of the site should provide some protection to the underlying Principal Aquifer and therefore, the environmental setting of the site is considered to be of "moderate" sensitivity.

The proposed development will comprise new residential accommodation, which should be considered “moderate” to “high” sensitivity in terms of human health.

4.0 CONCLUSIONS & RECOMMENDATIONS

The Phase 1 Risk Assessment and Preliminary Conceptual Site Model have identified potential contamination sources, pathways and receptors and a detailed Phase 2 investigation will be required comprising the following:

- A ground investigation should be carried out to characterise the nature and depth of any Made Ground soils present beneath the site.
- Soil samples should be recovered and submitted for chemical testing to comprise a minimum suite of analysis including pH and metals, asbestos identification, speciated PAH and speciated TPH.
- The ground investigation should allow for excavations/boreholes to be taken through any Made Ground soils and into the underlying natural strata with in-situ testing carried out to provide adequate recommendations for foundation design.
- Given the size of the proposed development (up to 21 storeys) rotary coring into the sandstone bedrock will be required in order to assist with detailed foundation and structural design.
- We are unsure at this stage whether the entire buildings footprint will be underlain by basement car parking. If this is not the case, then a gas risk assessment will be required and should include the installation of a minimum of three gas monitoring wells with provision for an initial 6 monitoring visits carried out over a 2 month period in accordance with CIRIA Report C665.

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APPENDIX I
DRAWINGS

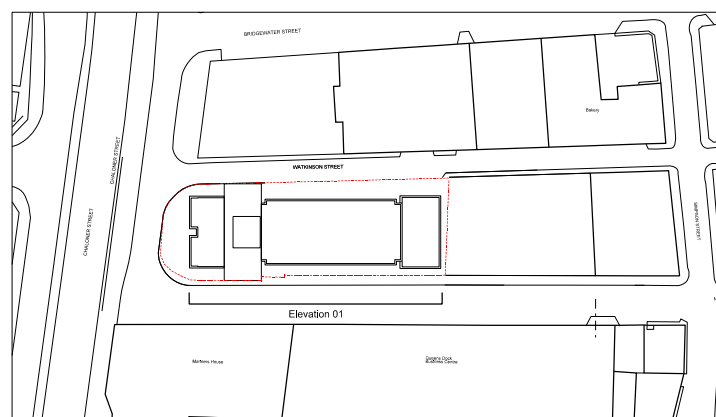
Client	BALTIC 1014 LTD		
Project	NORFOLK ST & CHALONER ST, LIVERPOOL		
Title	SITE LOCATION PLAN		
Office	MANCHESTER	Discipline	GEO-ENVIRONMENTAL



REV	DATE	DESCRIPTION	BY	CHK.	APP.	Drawn	Date	Job number	Drawing number	Revision
Rev	Date	Description	By	Check	App.	DK	NOV 2015	10/0795	001	A
						Checked	Scale @ A4 NTS			
						Approved	Status			
						NR				

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- MATERIALS KEY
1. Corten Steel
 2. Zinc/ Aluminium Cladding
 3. Concrete
 4. Aluminium Windows
 5. Curtain Walling
 6. Glass Balastrade



FALCONER CHESTER HALL



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RevC_04.09.2015_Design altered to suit levels.
RevB_01.09.2015_Minor Amendments.
RevA_29.07.2015_storey heights and facade design altered

Project Title
Norfolk Street & Chaloner Street, Liverpool

Drawing Title
Elevation 01

Client
Baltic 1014 Ltd.

Drawn By Date
JS June 2015

Scale
1:400 @ A3

Project No.
P15-024

Drawing No.
01-05-001_RevC

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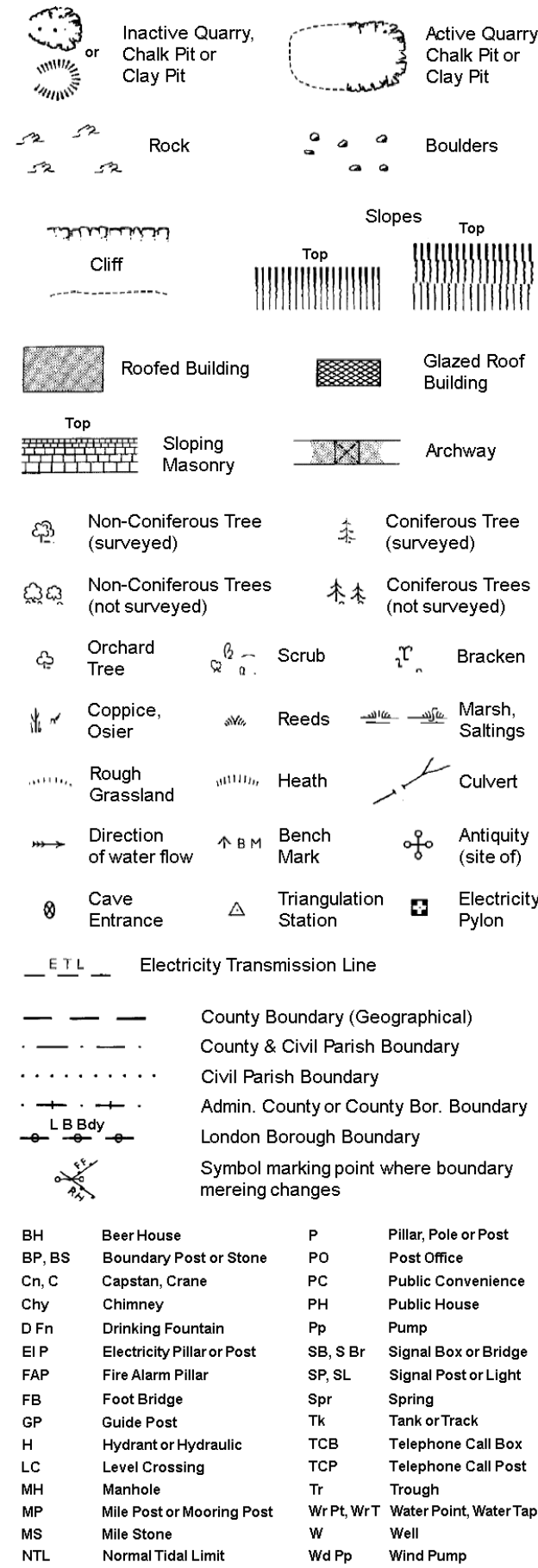
APPENDIX II
HISTORICAL MAPS

Historical Mapping Legends

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



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



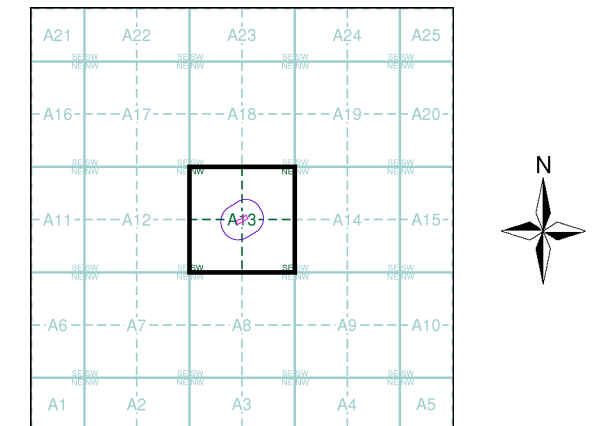
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cheshire	1:2,500	1874	2
Lancashire And Furness	1:2,500	1890 - 1893	3
Cheshire	1:2,500	1899	4
Lancashire And Furness	1:2,500	1908	5
Cheshire	1:2,500	1911	6
Lancashire And Furness	1:2,500	1927	7
Cheshire	1:2,500	1936	8
Ordnance Survey Plan	1:1,250	1953 - 1954	9
Ordnance Survey Plan	1:2,500	1954 - 1955	10
Ordnance Survey Plan	1:1,250	1958 - 1971	11
Ordnance Survey Plan	1:2,500	1959 - 1970	12
Additional SIMs	1:1,250	1962 - 1989	13
Ordnance Survey Plan	1:1,250	1965 - 1973	14
Ordnance Survey Plan	1:2,500	1970	15
Ordnance Survey Plan	1:1,250	1977 - 1989	16
Additional SIMs	1:1,250	1984 - 1992	17
Additional SIMs	1:1,250	1984 - 1991	18
Ordnance Survey Plan	1:1,250	1989 - 1990	19
Additional SIMs	1:1,250	1989 - 1991	20
Additional SIMs	1:1,250	1992	21
Large-Scale National Grid Data	1:1,250	1993	22
Large-Scale National Grid Data	1:1,250	1993 - 1994	23
Large-Scale National Grid Data	1:1,250	1994	24
Large-Scale National Grid Data	1:1,250	1996	25
Large-Scale National Grid Data	1:1,250	1996	26

Historical Map - Segment A13



Order Details

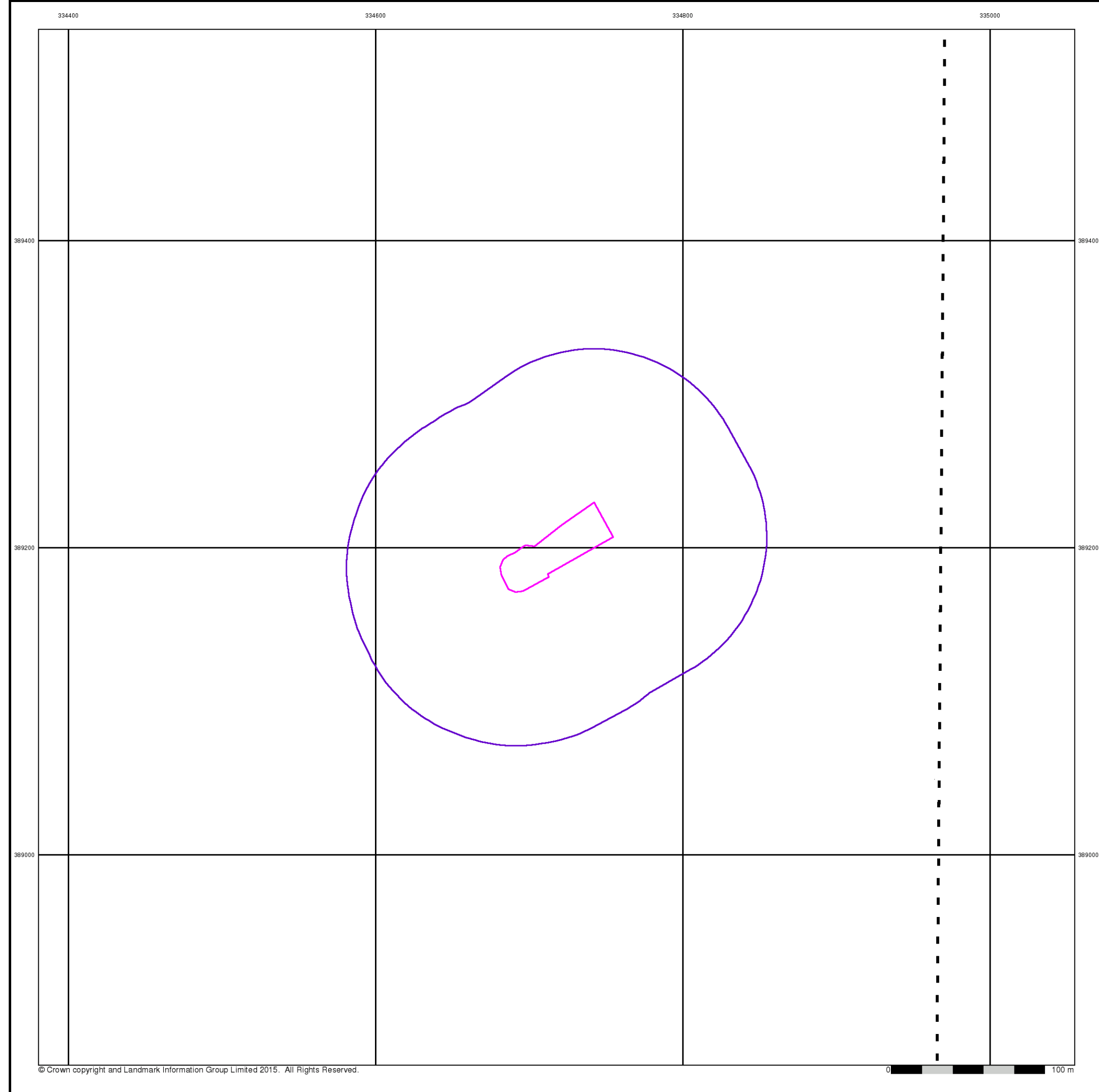
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Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100


Site Details

Norfolk Street, Liverpool, L1 0BG



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





Cheshire


Published 1874

Source map scale - 1:2,500


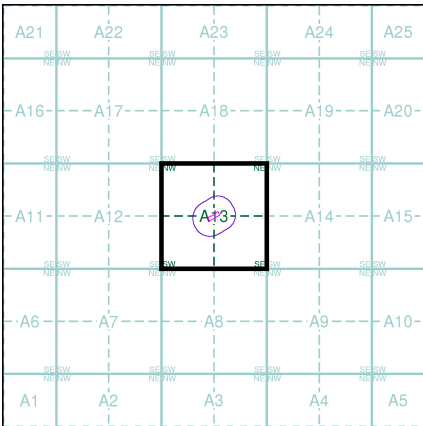
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)

013_04
1874
1:2,500



Historical Map - Segment A13




Order Details

Order Number:	73463009_1_1
Customer Ref:	10/0795
National Grid Reference:	334720, 389200
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	100

Site Details

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A Landmark Information Group Service v47.0 08-Oct-2015 Page 2 of 26

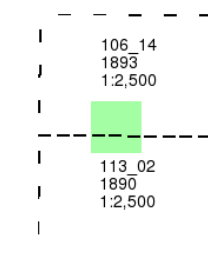
Lancashire And Furness

Published 1890 - 1893

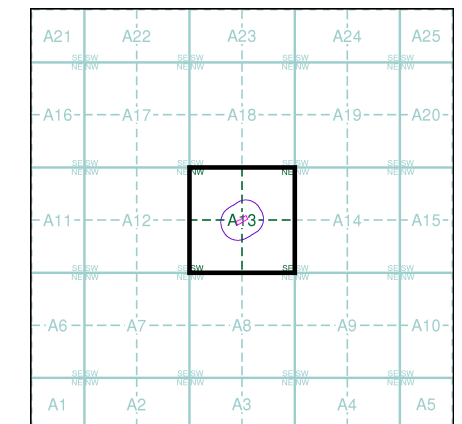
Source map scale - 1:2,500

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

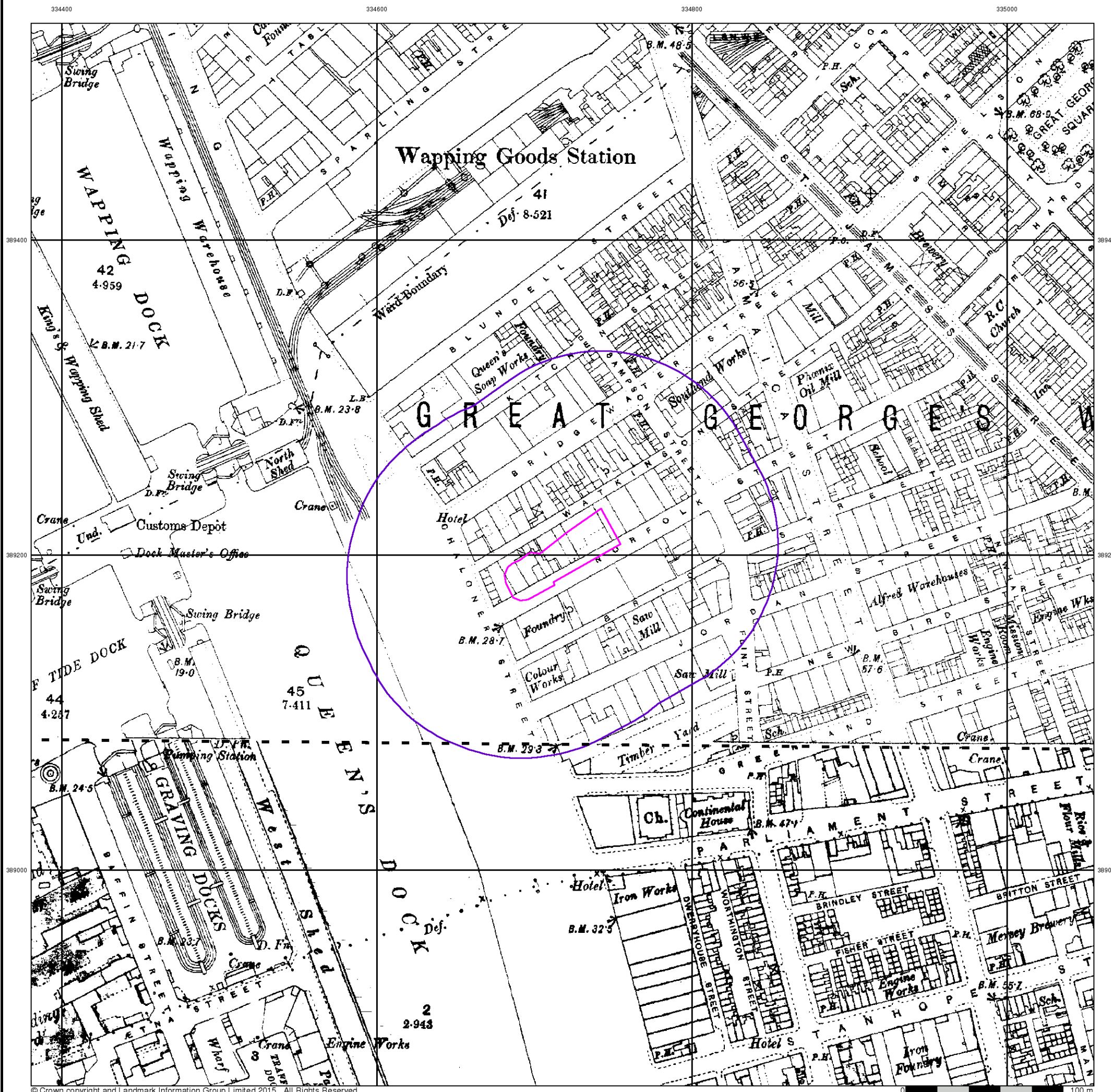


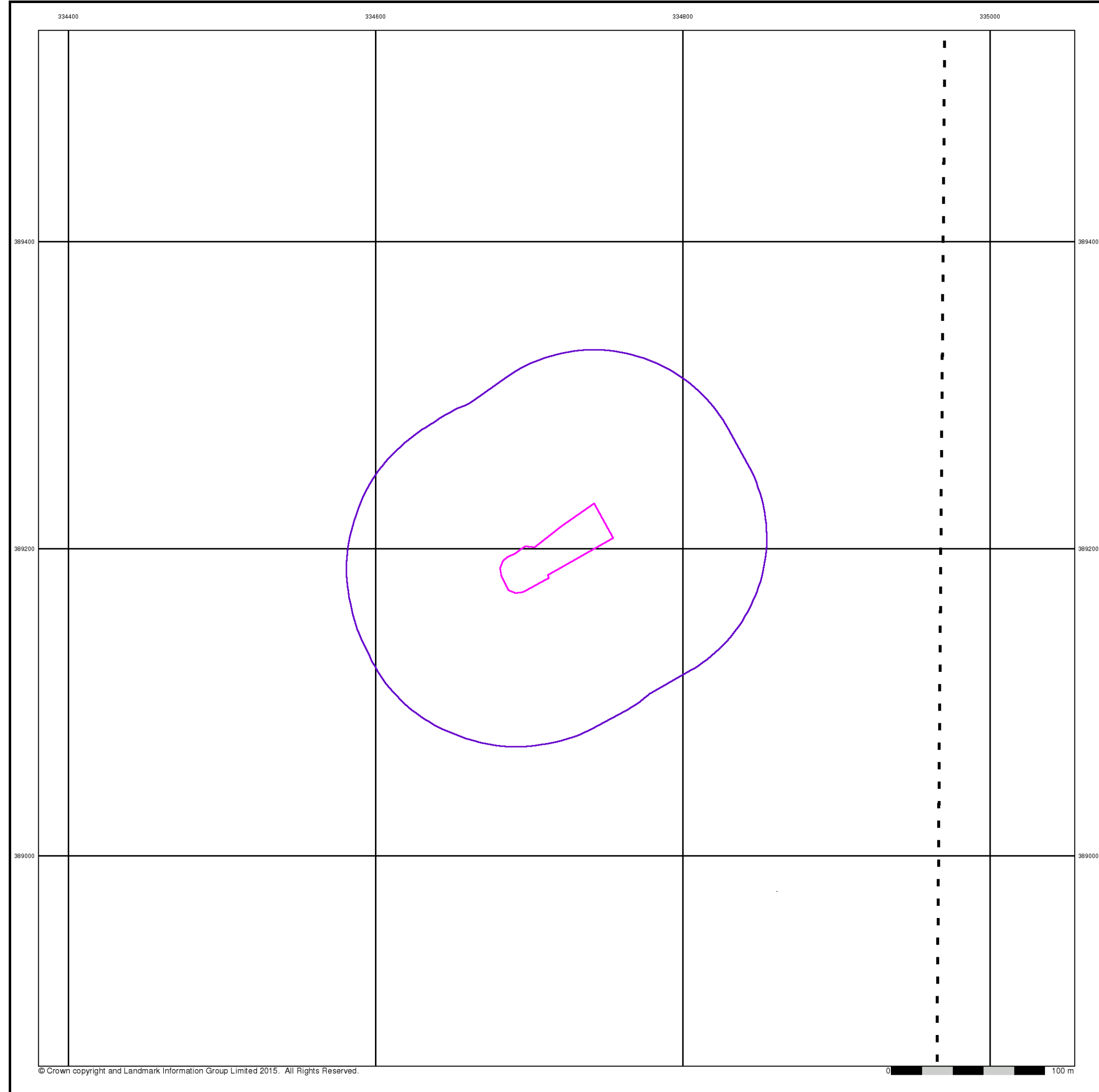
Order Details


Order Number: 73463009_1_1
 Customer Ref: 10/0795
 National Grid Reference: 334720, 389200
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 100

Site Details

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Cheshire


Published 1899

Source map scale - 1:2,500


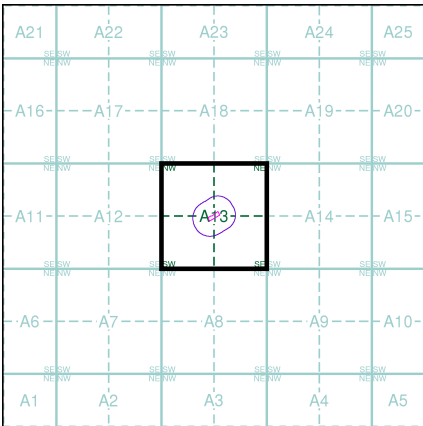
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)

013_04
1899
1:2,500



Historical Map - Segment A13




Order Details

Order Number:	73463009_1_1
Customer Ref:	10/0795
National Grid Reference:	334720, 389200
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	100

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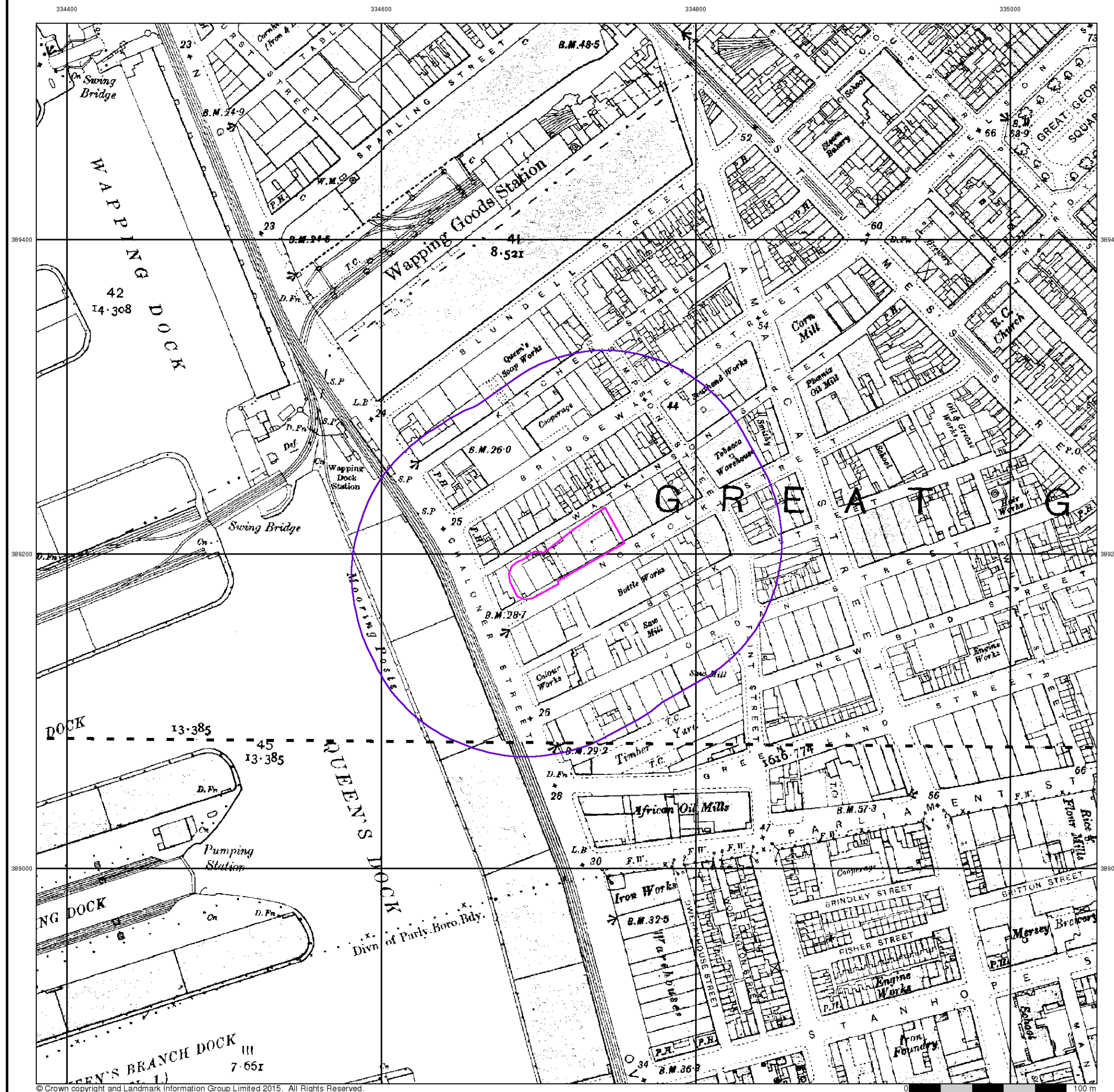


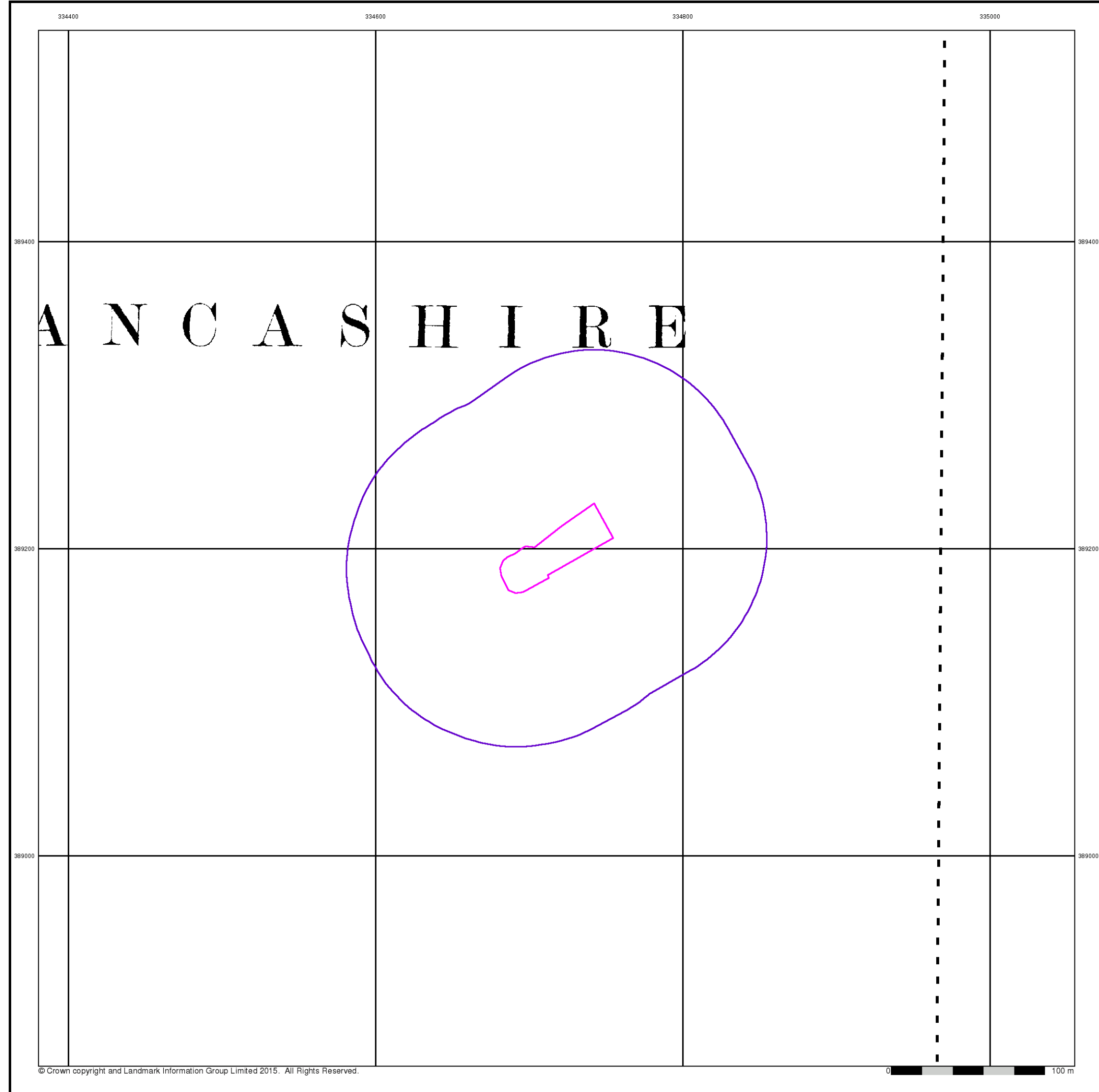
Map Name(s) and Date(s)




Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

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Cheshire


Published 1911

Source map scale - 1:2,500


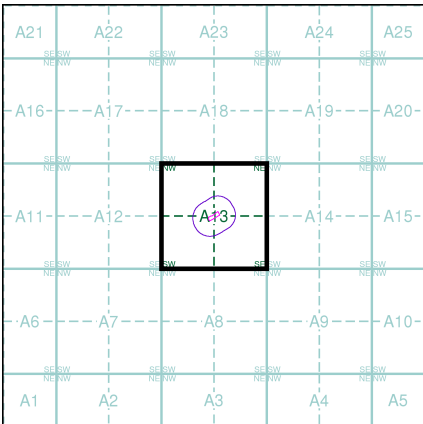
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)

013_04
1911
1:2,500



Historical Map - Segment A13




Order Details

Order Number:	73463009_1_1
Customer Ref:	10/0795
National Grid Reference:	334720, 389200
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	100

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Lancashire And Furness

Published 1927

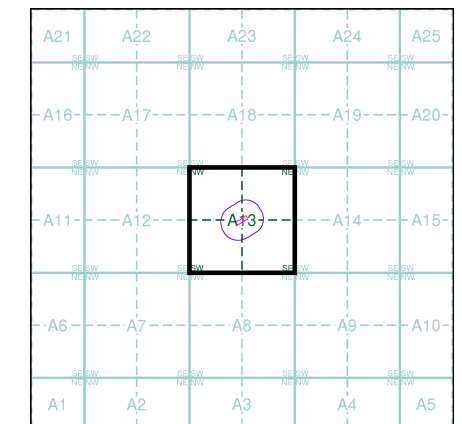
Source map scale - 1:2,500

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)

106 14
1927
1:2,500
113 02
1927
1:2,500

Historical Map - Segment A13

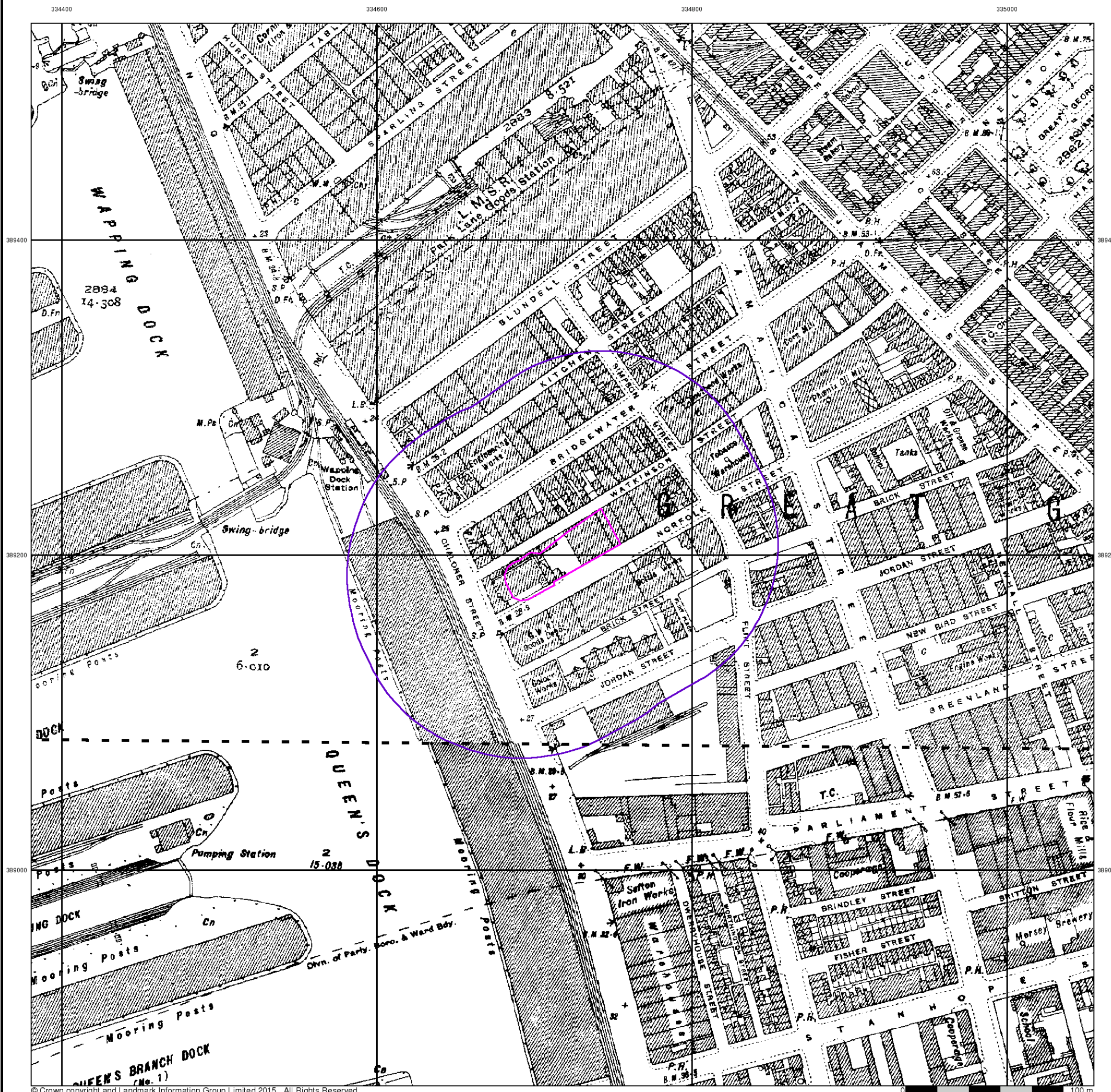


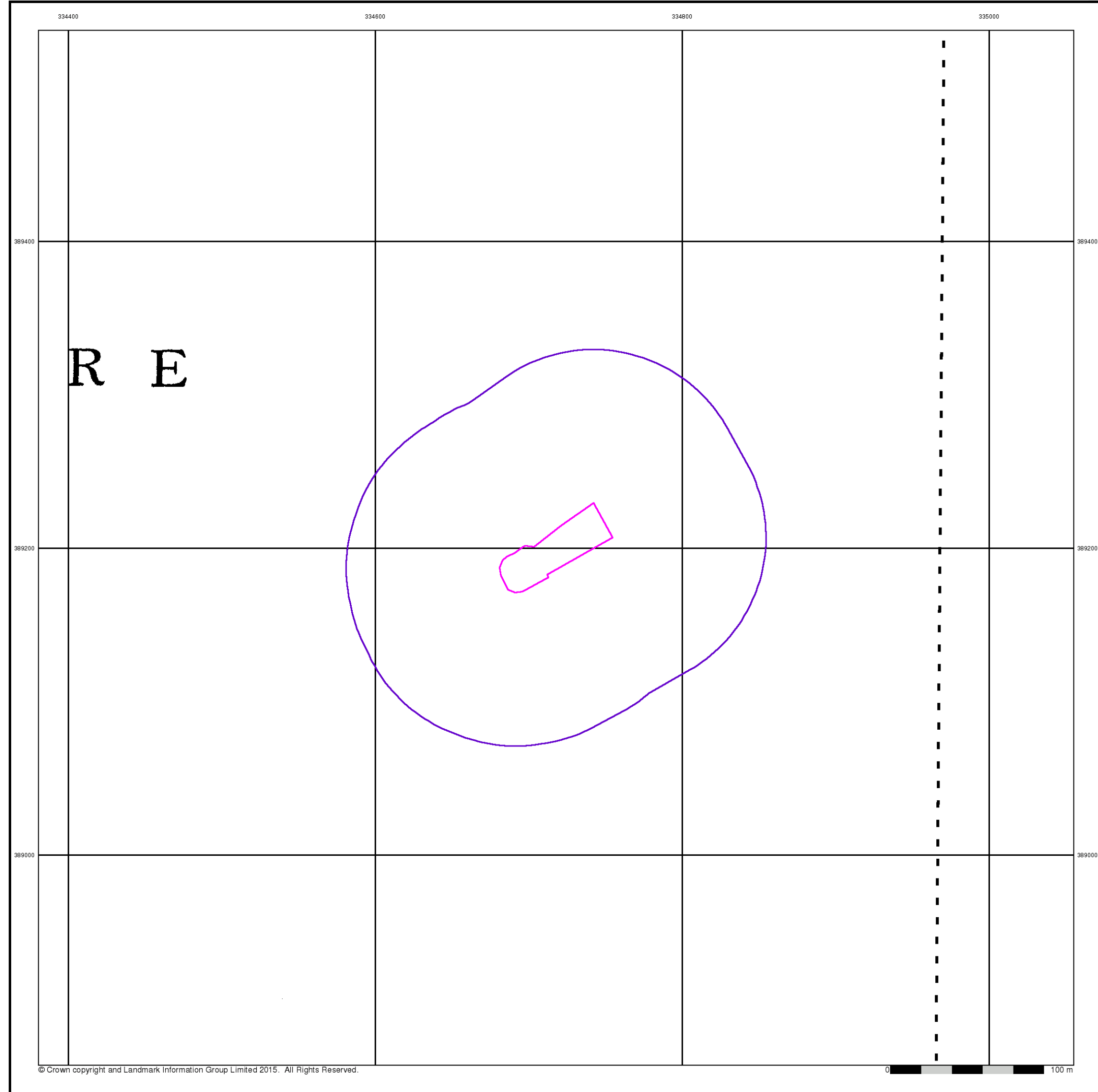
Order Details


Order Number: 73463009_1_1
 Customer Ref: 10/0795
 National Grid Reference: 334720, 389200
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 100

Site Details

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Cheshire


Published 1936

Source map scale - 1:2,500


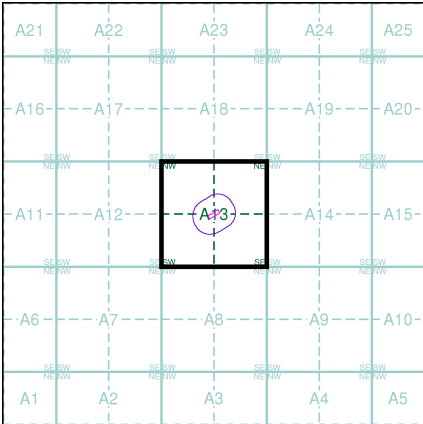
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)

013_04
1936
1:2,500



Historical Map - Segment A13




Order Details

Order Number:	73463009_1_1
Customer Ref:	10/0795
National Grid Reference:	334720, 389200
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	100

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Ordnance Survey Plan

Published 1953 - 1954

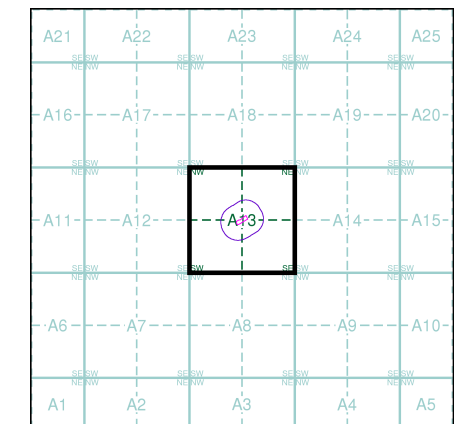
Source map scale - 1:1,250

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)

SJ3489NW	SJ3489NE	SJ3589NW
1954	1954	1954
1:1,250	1:1,250	1:1,250
SJ3489SW	SJ3489SE	SJ3589SW
1954	1954	1954
1:1,250	1:1,250	1:1,250
SJ3488NW	SJ3488NE	SJ3588NW
1953	1953	1954
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13

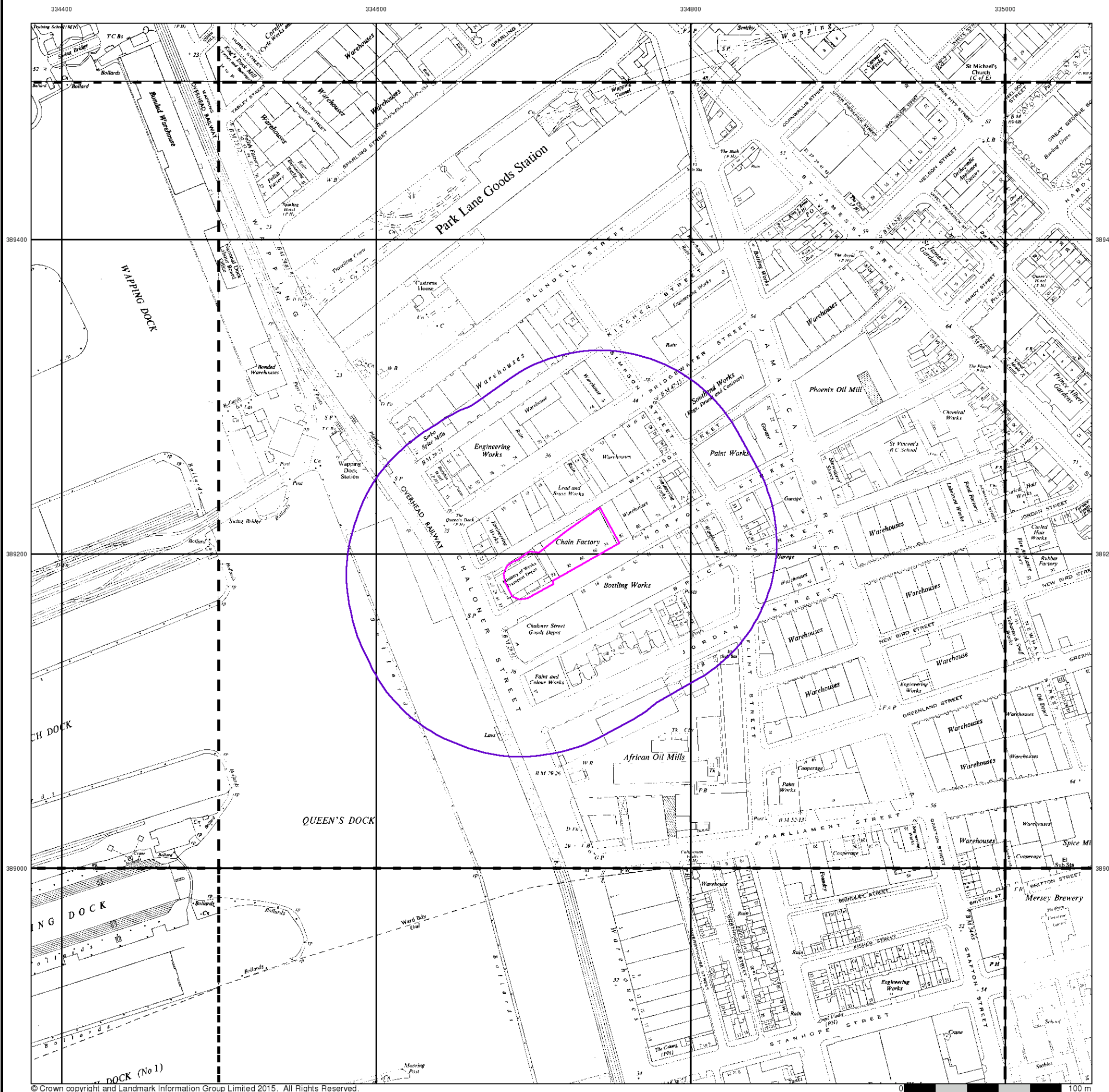


Order Details

Order Number: 73463009_1_1
 Customer Ref: 10/0795
 National Grid Reference: 334720, 389200
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 100

Site Details

Norfolk Street, Liverpool, L1 0BG



Ordnance Survey Plan

Published 1954 - 1955

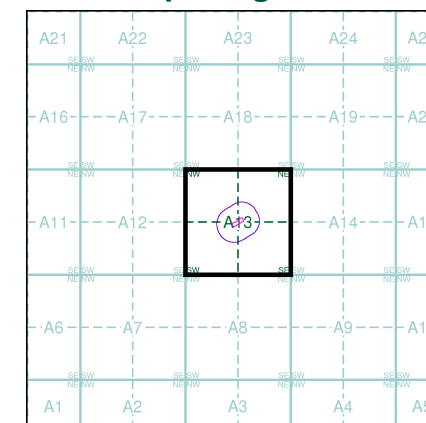
Source map scale - 1:2,500

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)

SJ3489	SJ3589
1955	1955
12,500	12,500
SJ3488	SJ3588
1954	1954
12,500	12,500

Historical Map - Segment A13

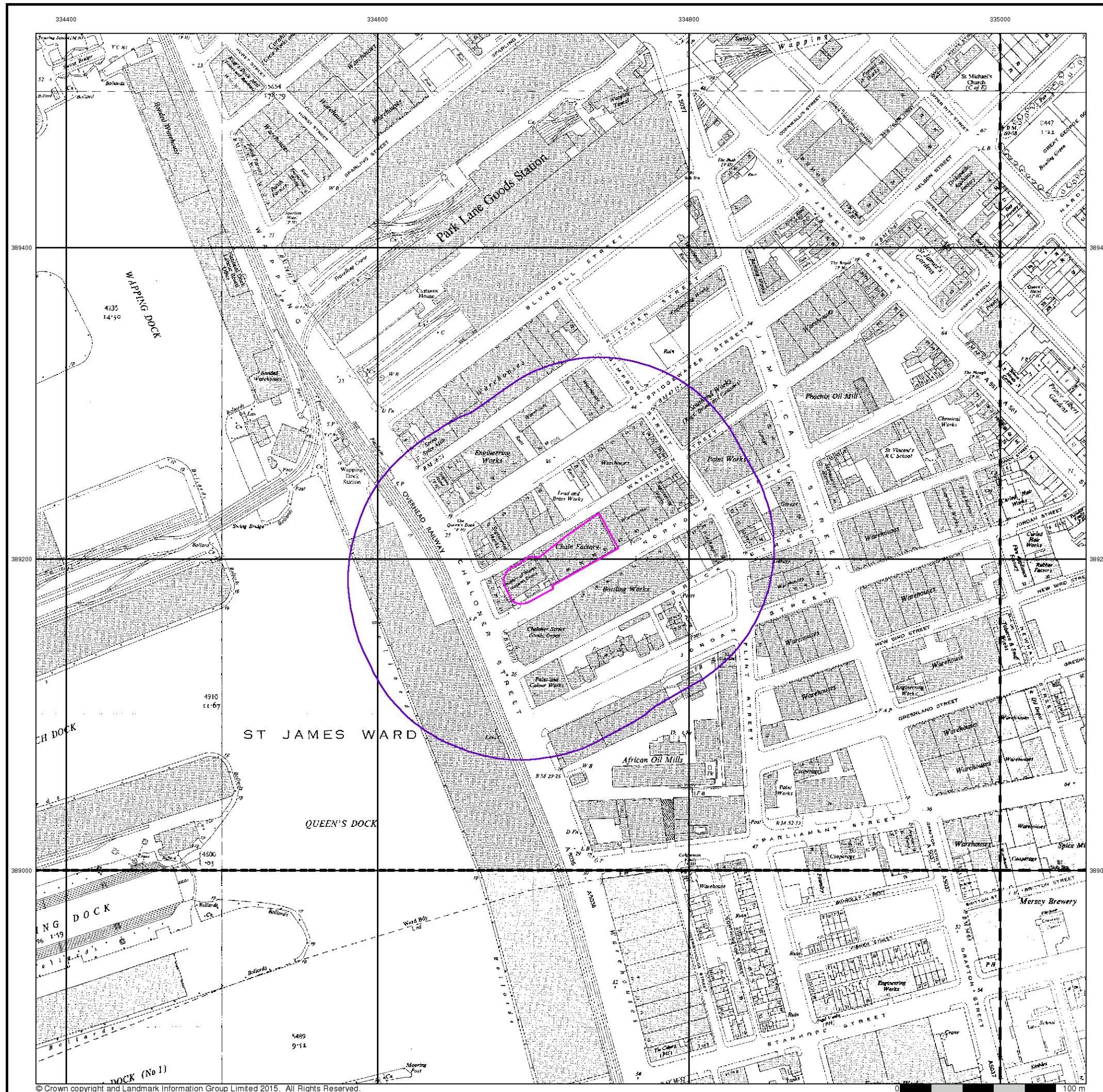


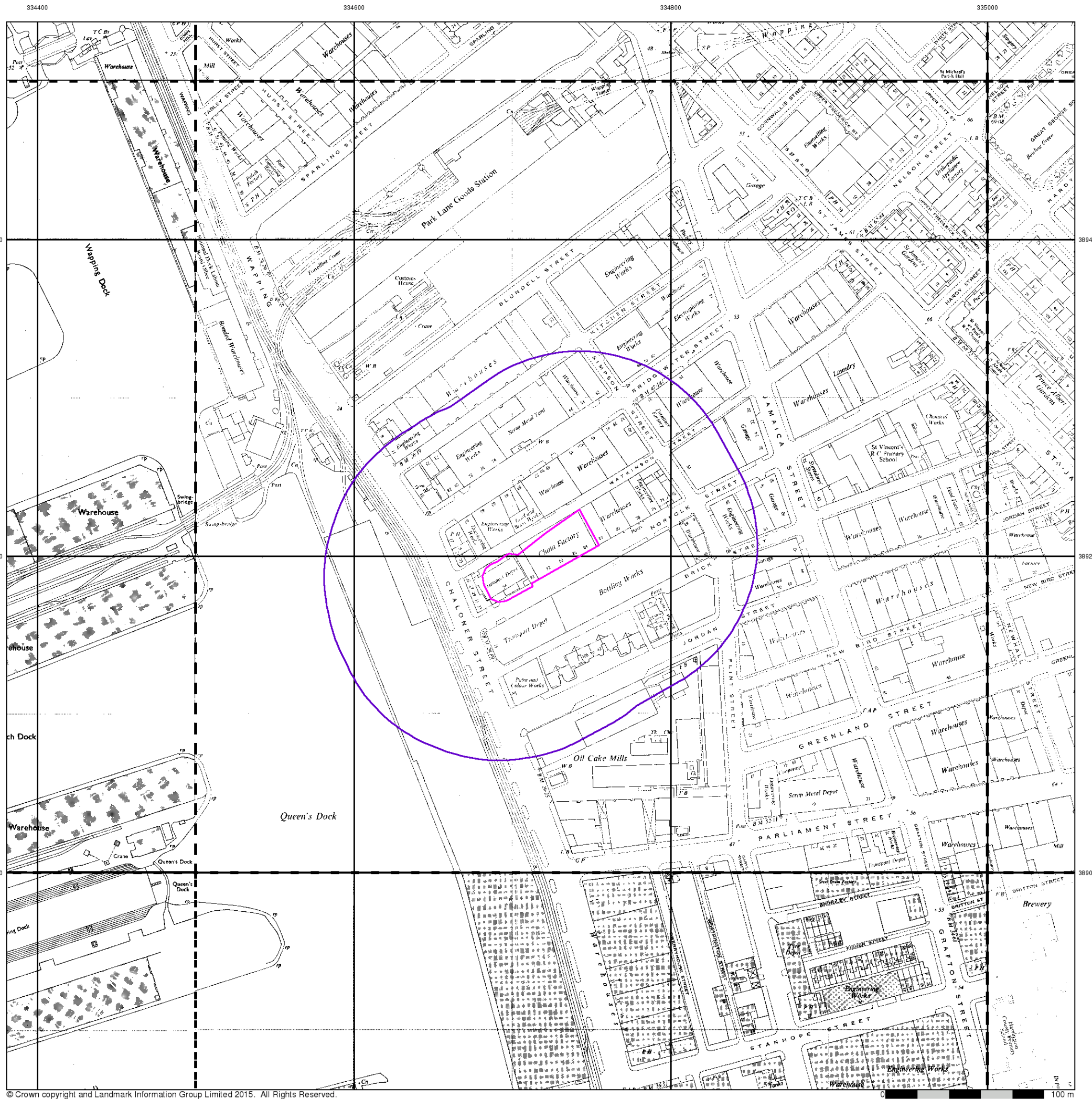
Order Details

Order Number: 73463009_1_1
 Customer Ref: 10/0795
 National Grid Reference: 334720, 389200
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 100

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Ordnance Survey Plan

Published 1958 - 1971

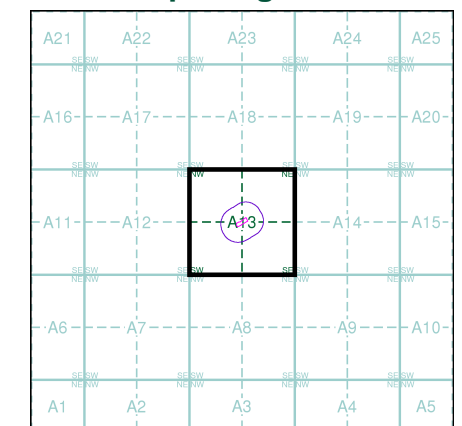
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ3489NW	SJ3489NE	SJ3589NW
1959	1962	1962
1:1,250	1:1,250	1:1,250
SJ3489SW	SJ3489SE	SJ3589SW
1971	1965	1959
1:1,250	1:1,250	1:1,250
SJ3488NW	SJ3488NE	SJ3588NW
1971	1965	1958
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

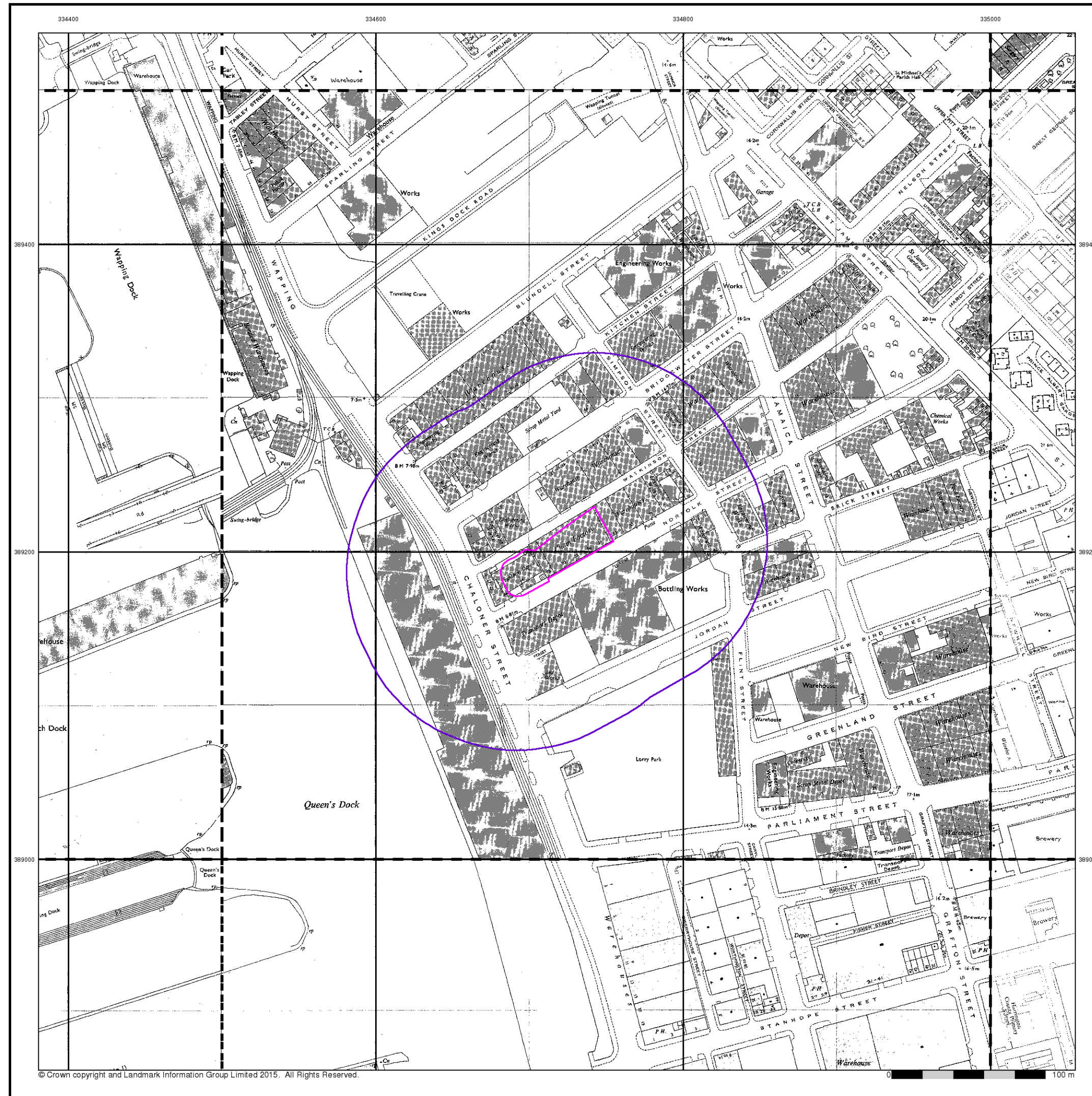
Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

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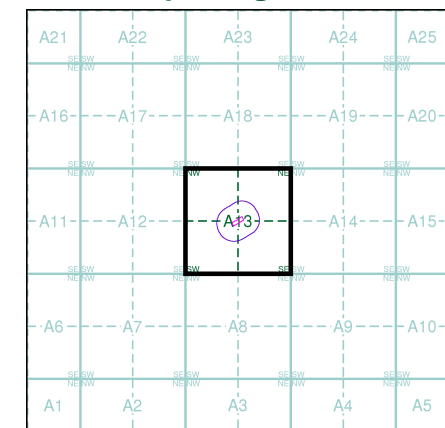
Additional SIMs
Published 1962 - 1989
Source map scale - 1:1,250

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)

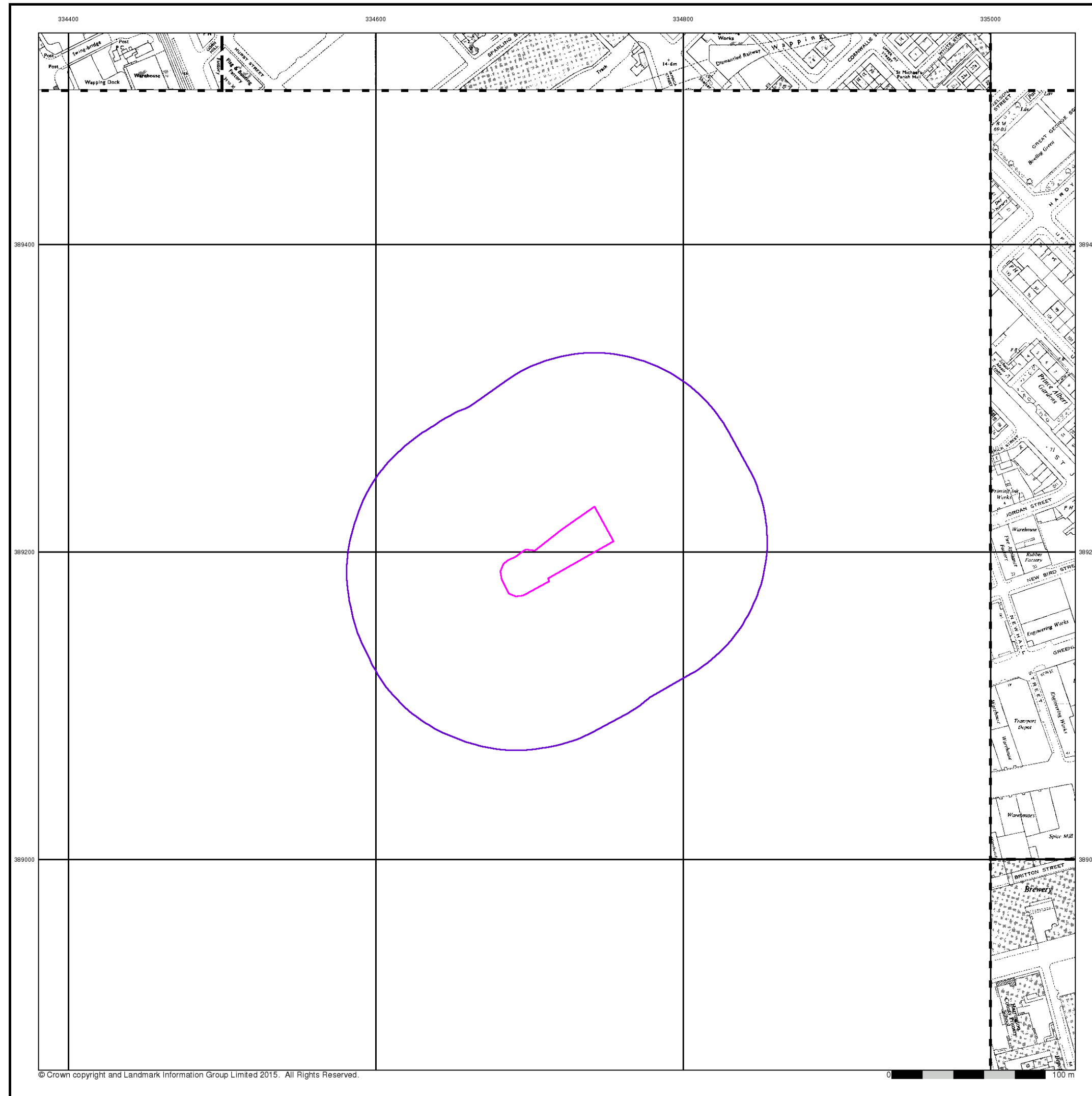
SJ3489NW	SJ3489NE	SJ3589NW
1983	1986	1982
1:1,250	1:1,250	1:1,250
SJ3489SW	SJ3489SE	SJ3589SW
1987	1985	1983
1:1,250	1:1,250	1:1,250
SJ3488NW	SJ3488NE	SJ3588NW
1989	1983	1985
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details
Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

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Norfolk Street, Liverpool, L1 0BG



Ordnance Survey Plan

Published 1965 - 1973

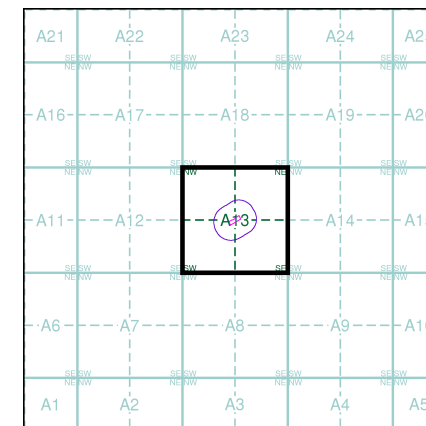
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ3489NW	SJ3489NE
1971	1973
1:1,250	1:1,250
	SJ3589SW
	1965
	1:1,250
	SJ3588NW
	1968
	1:1,250

Historical Map - Segment A13



Order Details

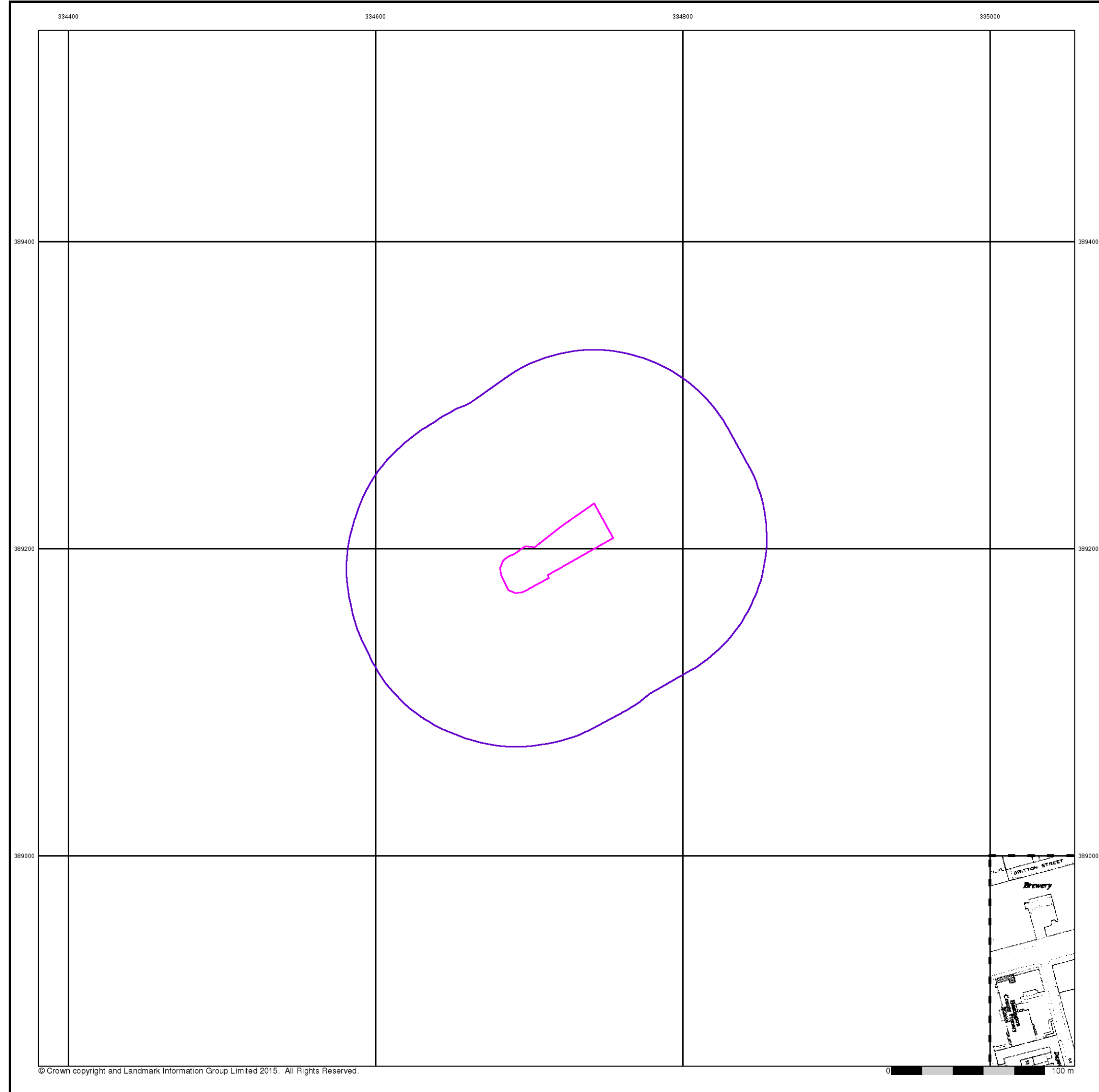
Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100


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Ordnance Survey Plan

Published 1970

Source map scale - 1:2,500

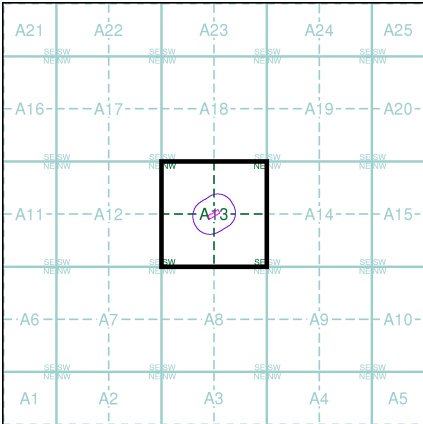
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)



SJ3588
1970
1:2,500

Historical Map - Segment A13




Order Details

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Customer Ref:	10/0795
National Grid Reference:	334720, 389200
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Site Area (Ha):	0.18
Search Buffer (m):	100

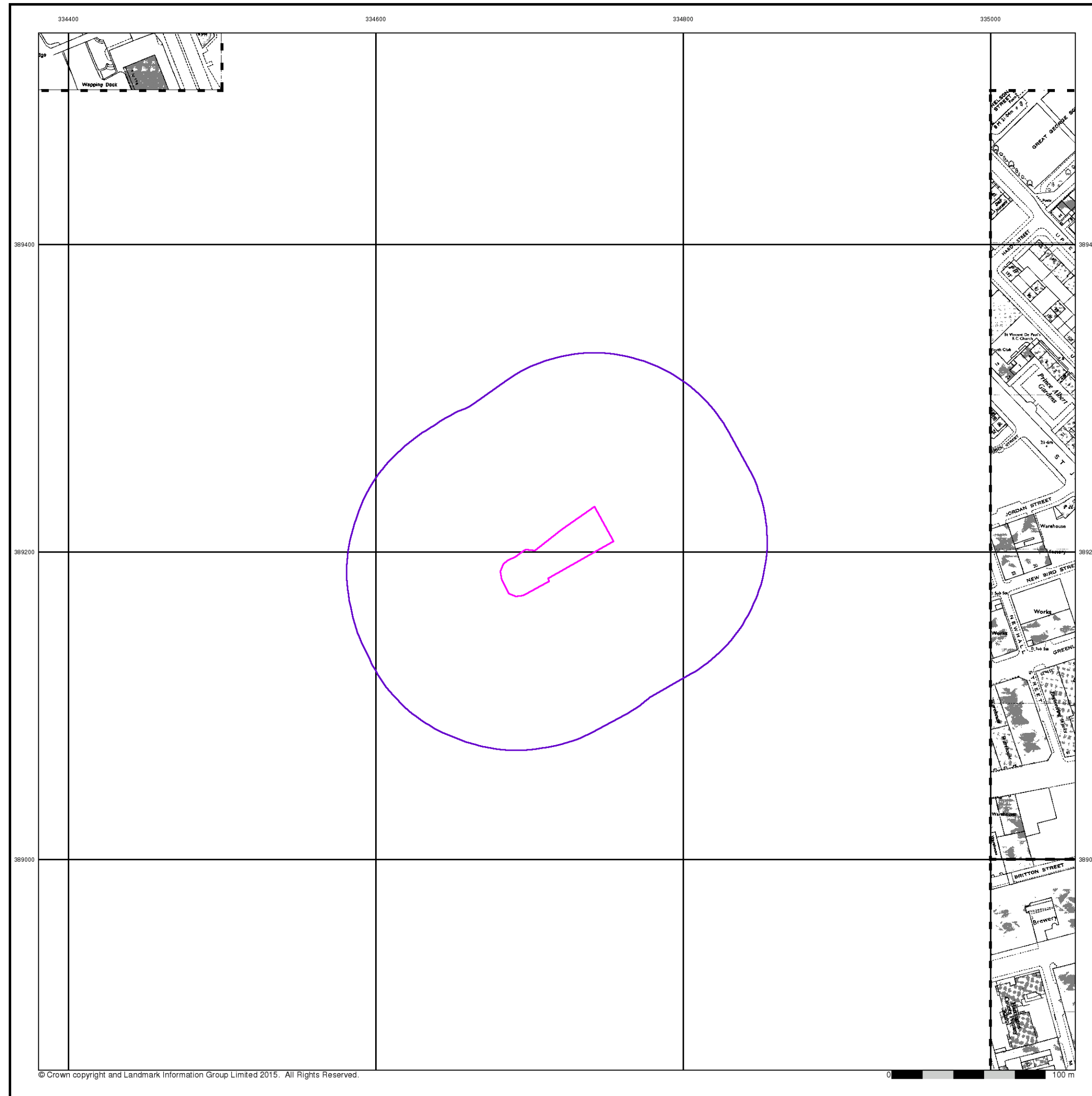
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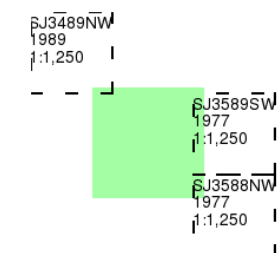
Ordnance Survey Plan

Published 1977 - 1989

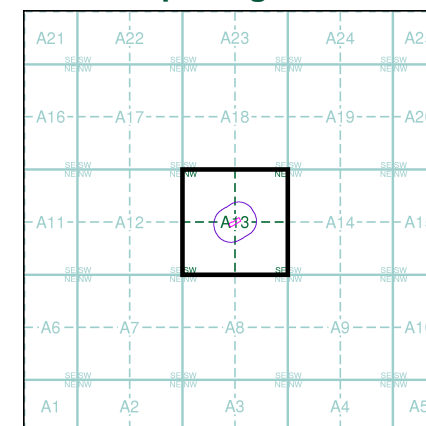
Source map scale - 1:1,250

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

Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

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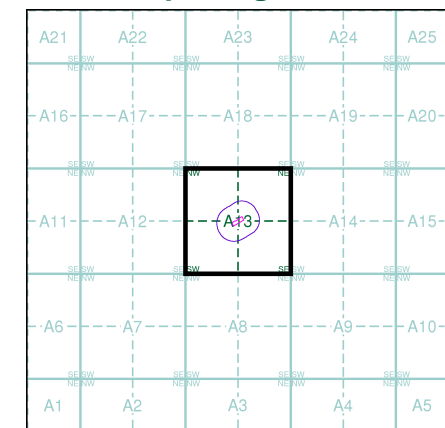
Additional SIMs
Published 1984 - 1992
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

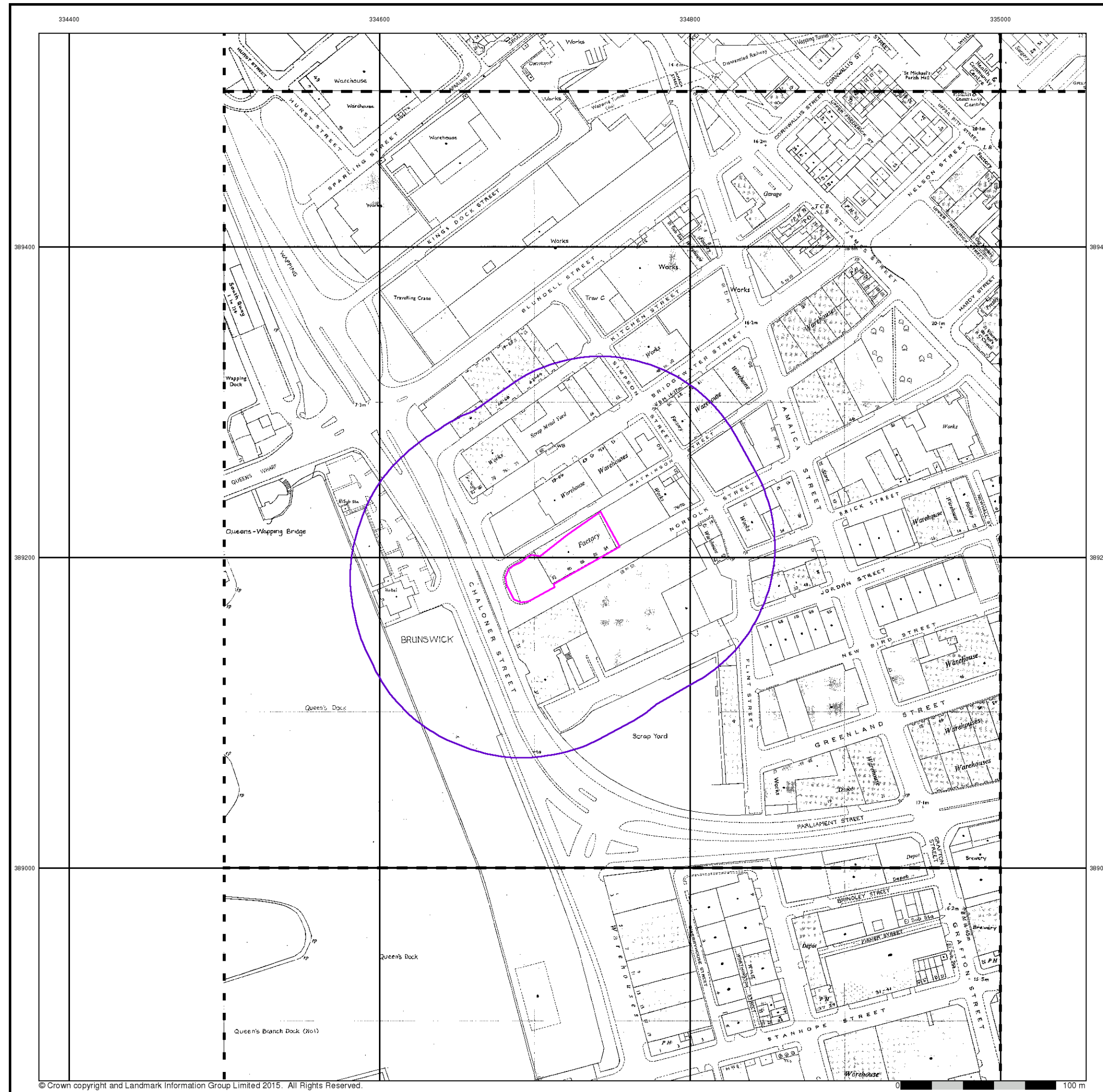
SJ3489NW	SJ3489NE	SJ3589NW
1986	1988	1984
1:1,250	1:1,250	1:1,250
SJ3489SW	SJ3489SE	SJ3589SW
1989	1984	1987
1:1,250	1:1,250	1:1,250
SJ3488NE	SJ3588NW	
1987	1992	
1:1,250	1:1,250	

Historical Map - Segment A13



Order Details
Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

Site Details
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334400 334600 334800 335000

389400 389200 389000

389400 389200 389000

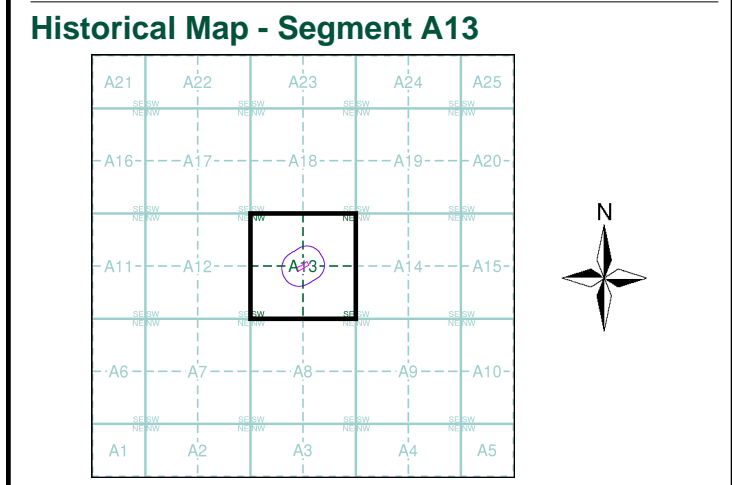
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Additional SIMs
Published 1984 - 1991
Source map scale - 1:1,250
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

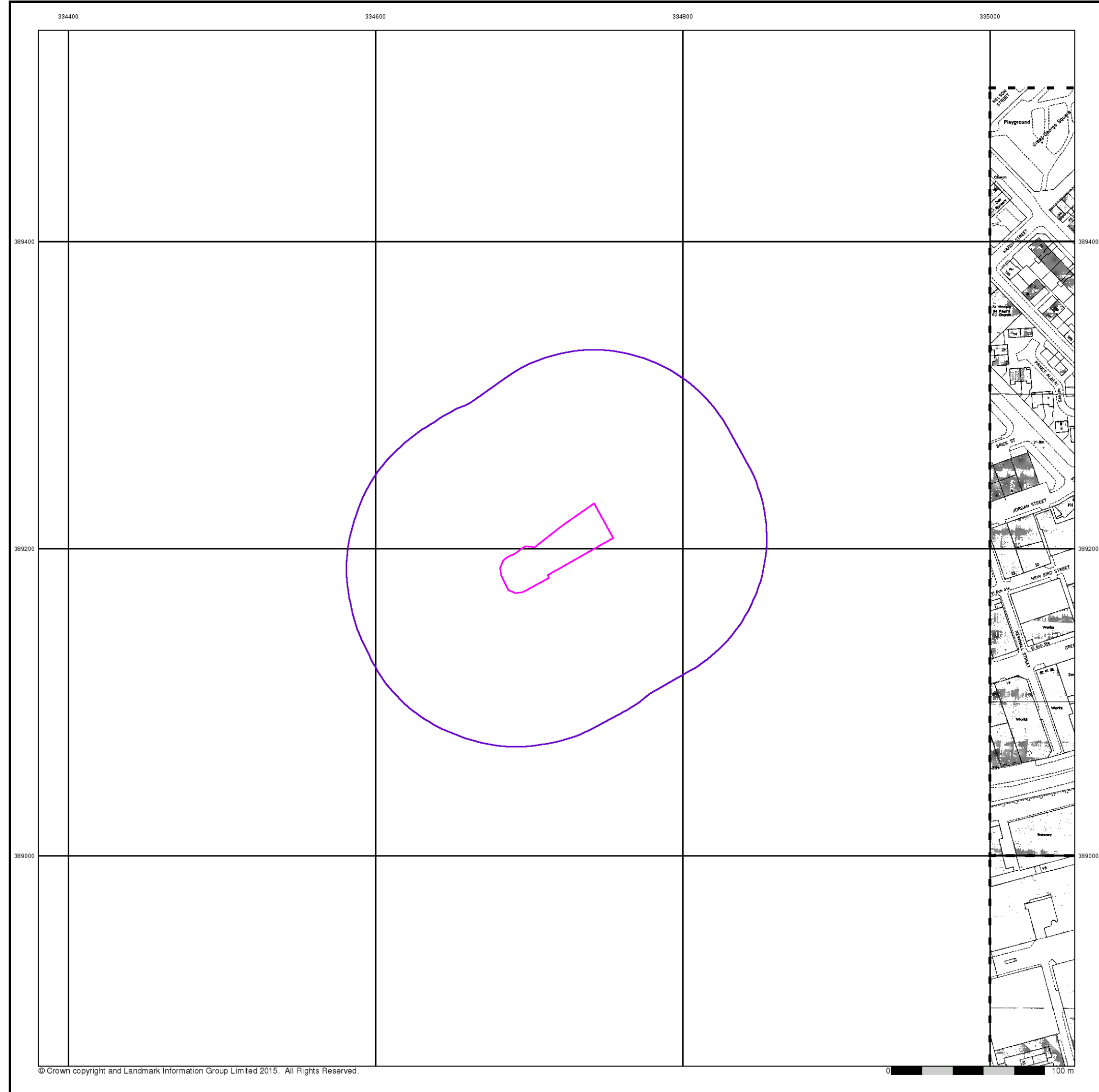
6J3489NE	6J3589NW
1989	1984
1:1,250	1:1,250
6J3489SE	
1991	
1:1,250	
6J3488NE	
1989	
1:1,250	




Order Details
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Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
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Site Details
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Web: www.envirocheck.co.uk






Ordnance Survey Plan

Published 1989 - 1990


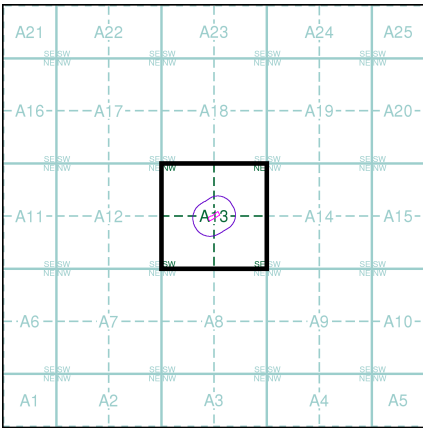
Source map scale - 1:1,250

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Map Name(s) and Date(s)

	SJ3589SW 1990 1:1,250
	SJ3588NW 1989 1:1,250

Historical Map - Segment A13




Order Details

Order Number:	73463009_1_1
Customer Ref:	10/0795
National Grid Reference:	334720, 389200
Slice:	A
Site Area (Ha):	0.18
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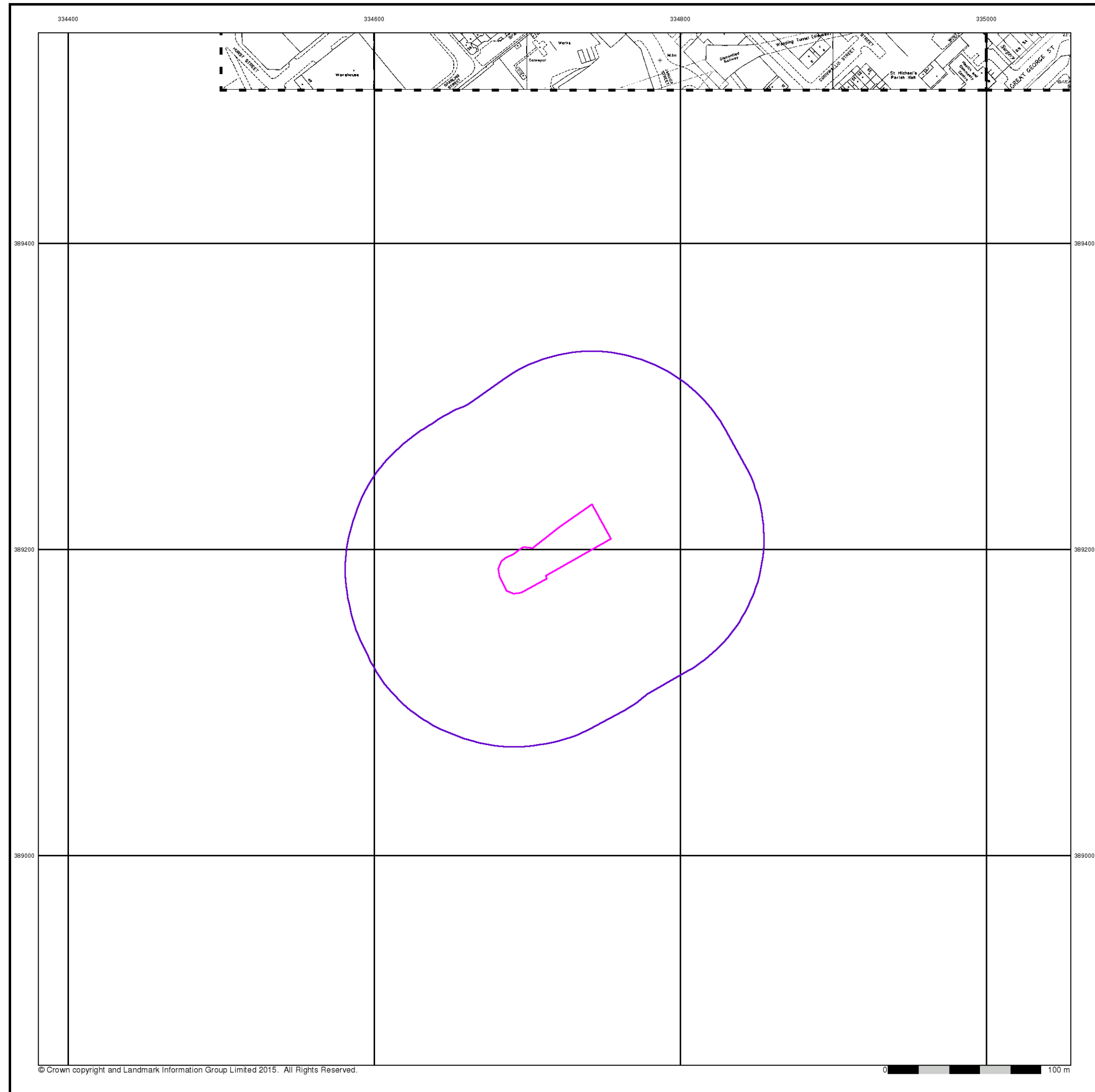
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Additional SIMs

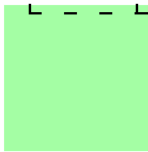
Published 1989 - 1991

Source map scale - 1:1,250

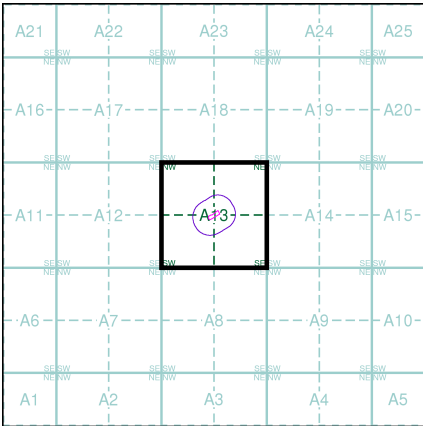
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

SJ3489NE	SJ3589NW
1991	1989
1:1,250	1:1,250



Historical Map - Segment A13




Order Details

Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

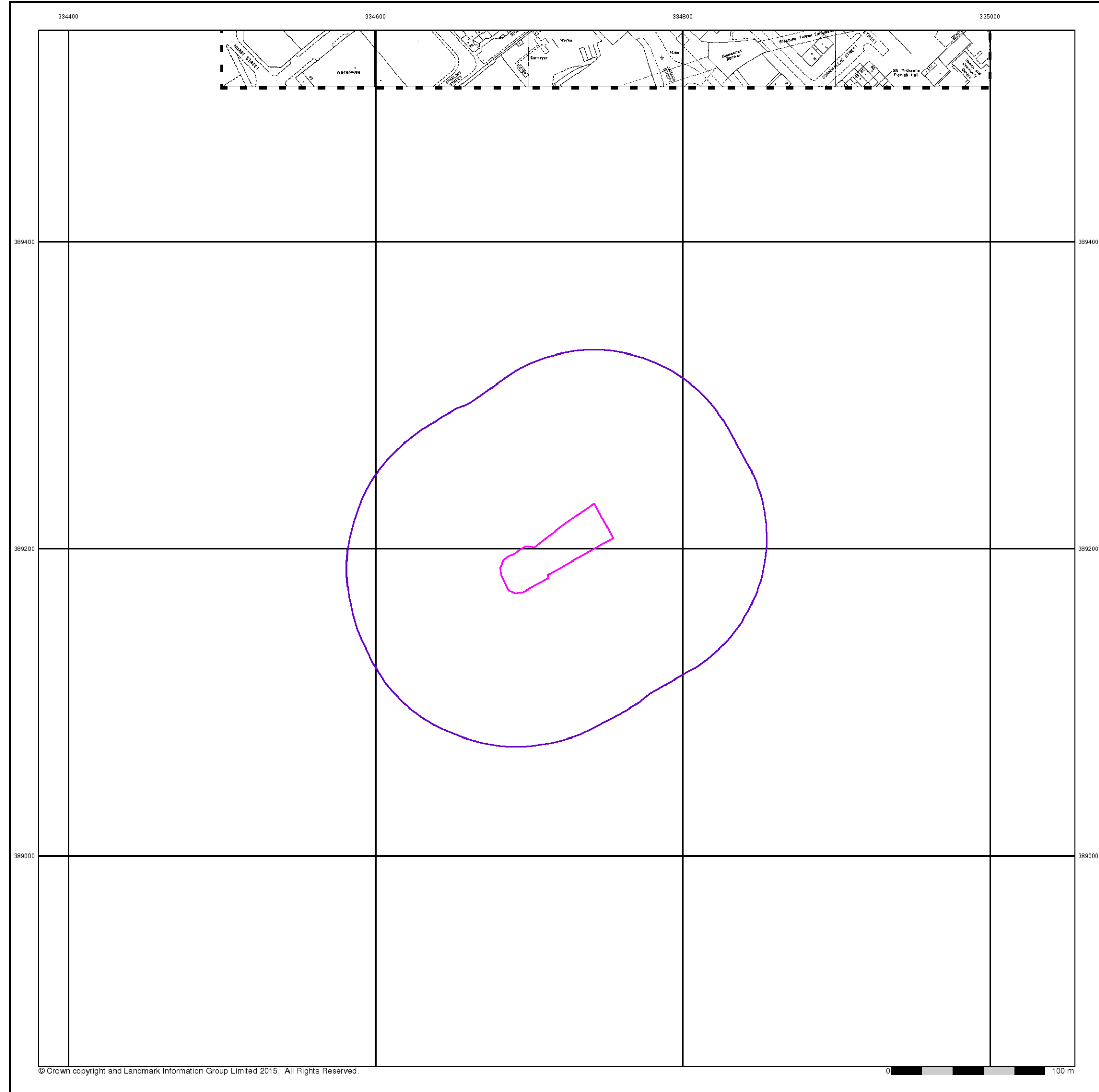
Site Details


Norfolk Street, Liverpool, L1 0BG



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A Landmark Information Group Service v47.0 08-Oct-2015 Page 20 of 26





Additional SIMs

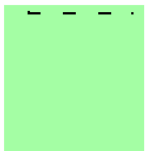
Published 1992

Source map scale - 1:1,250


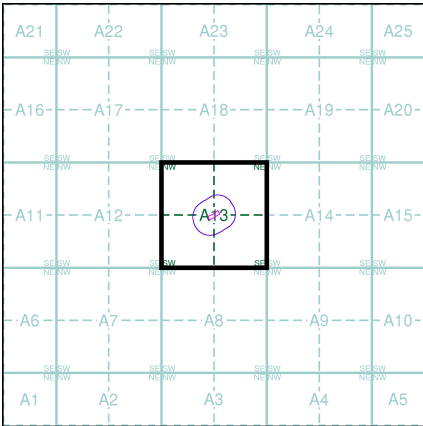
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

SJ3489NE
1992
1:1,250



Historical Map - Segment A13




Order Details

Order Number:	73463009_1_1
Customer Ref:	10/0795
National Grid Reference:	334720, 389200
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	100

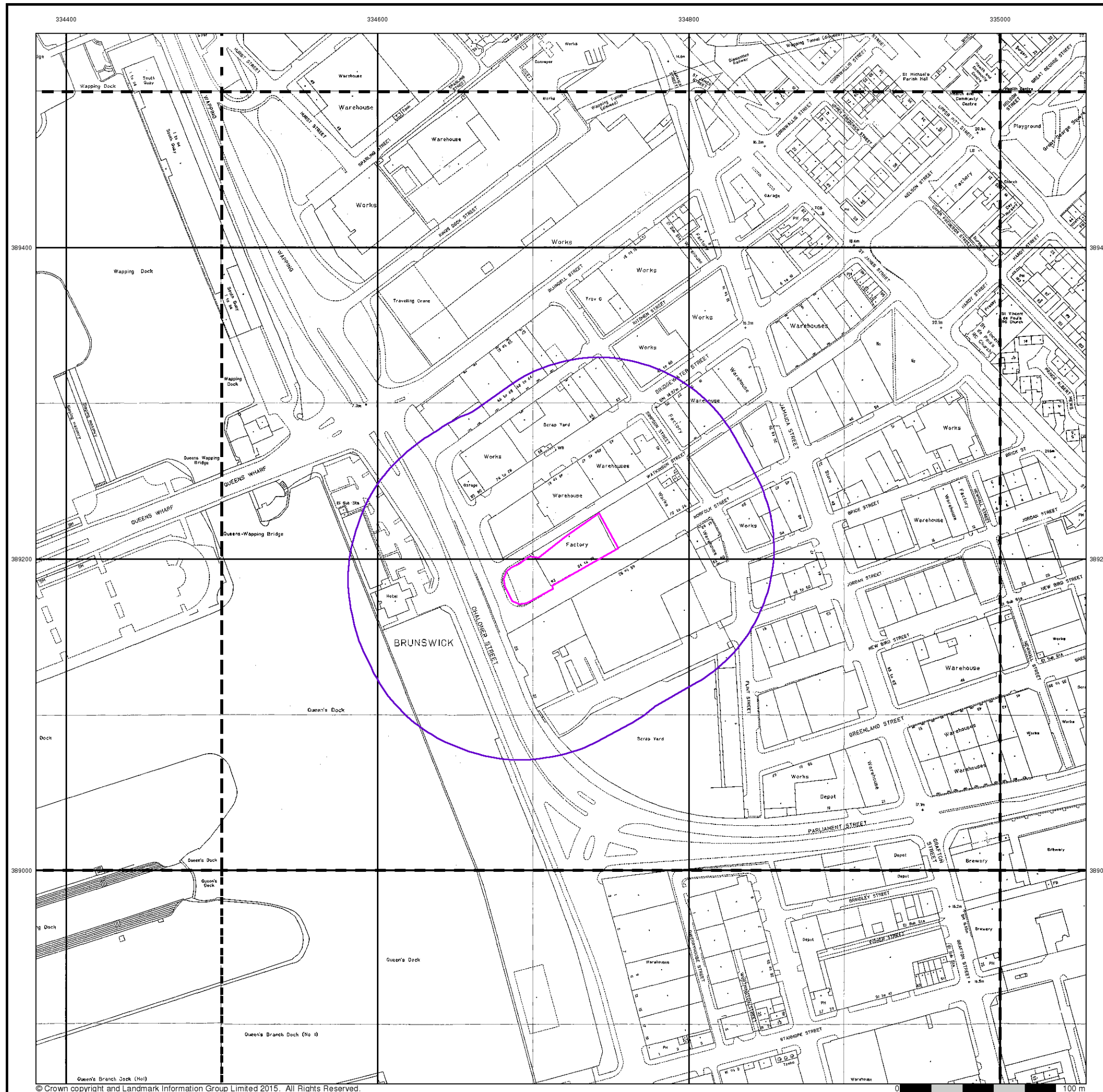
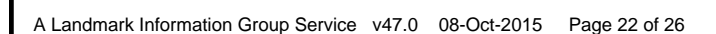
Site Details

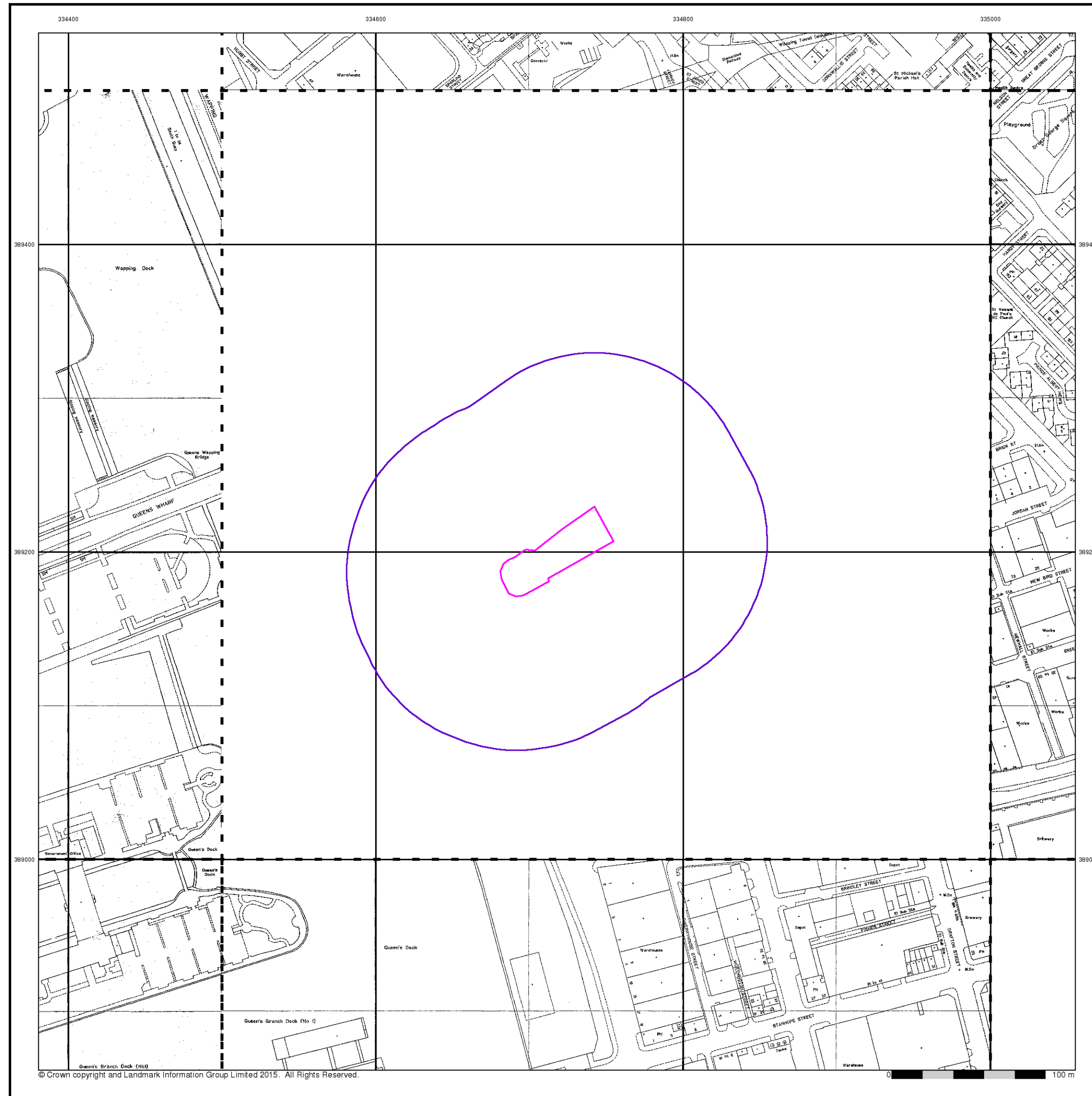
Norfolk Street, Liverpool, L1 0BG



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Large-Scale National Grid Data

Published 1993 - 1994

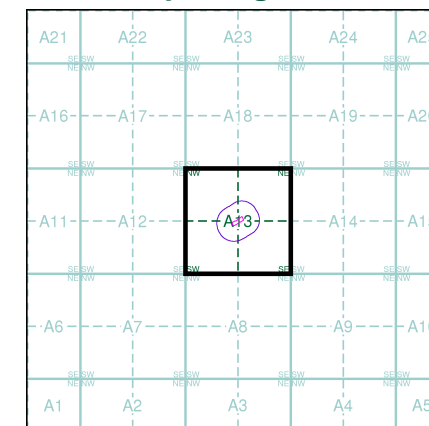
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ3489NE	SJ3589NW
1994	1993
1:1,250	1:1,250
SJ3489SW	SJ3589SW
1994	1993
1:1,250	1:1,250
SJ3488NW	SJ3488NE
1994	1994
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

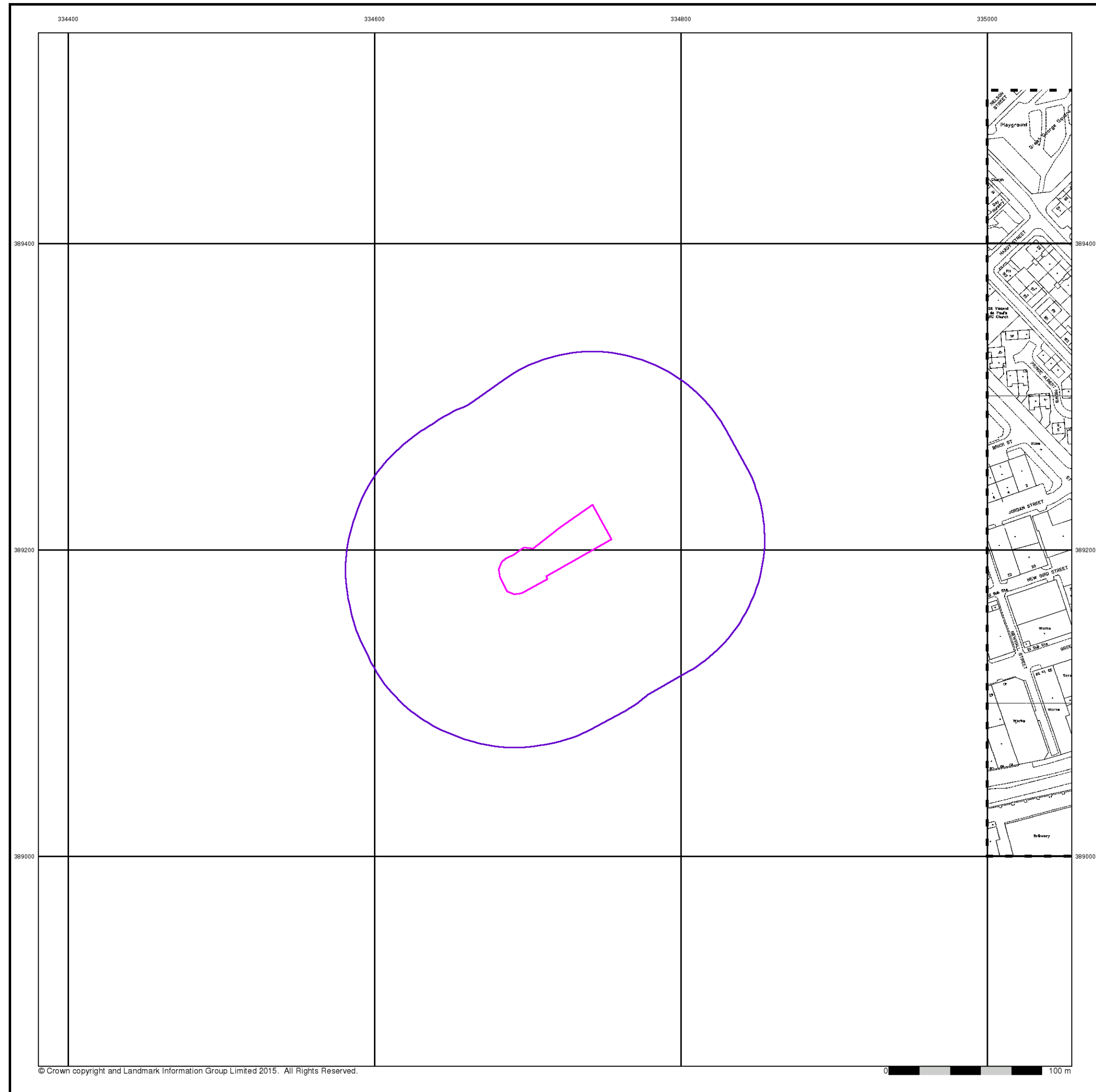
Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100


Site Details

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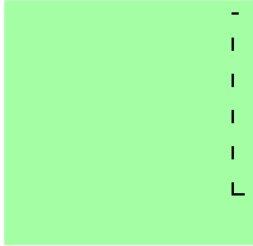
Large-Scale National Grid Data

Published 1994

Source map scale - 1:1,250


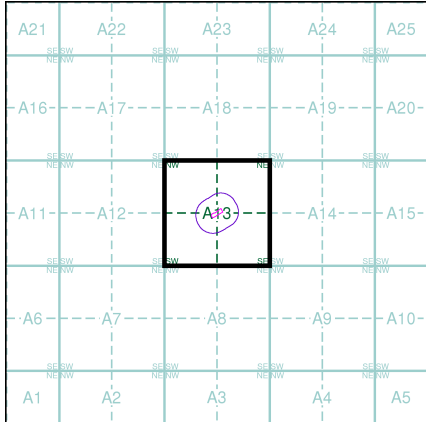
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

Map Name(s) and Date(s)



SJ3589SW
1994
1:1,250

Historical Map - Segment A13




Order Details

Order Number:	73463009_1_1
Customer Ref:	10/0795
National Grid Reference:	334720, 389200
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	100

Site Details

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Large-Scale National Grid Data

Published 1996

Source map scale - 1:1,250

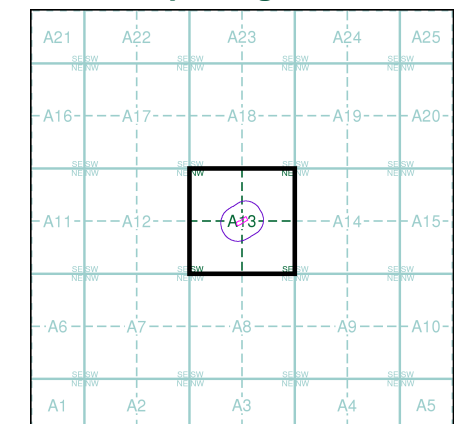
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

Map Name(s) and Date(s)

6J3489NE	6J3589NW
1996	1996
1:1,250	1:1,250

6J3489NE
1996
1:1,250

Historical Map - Segment A13

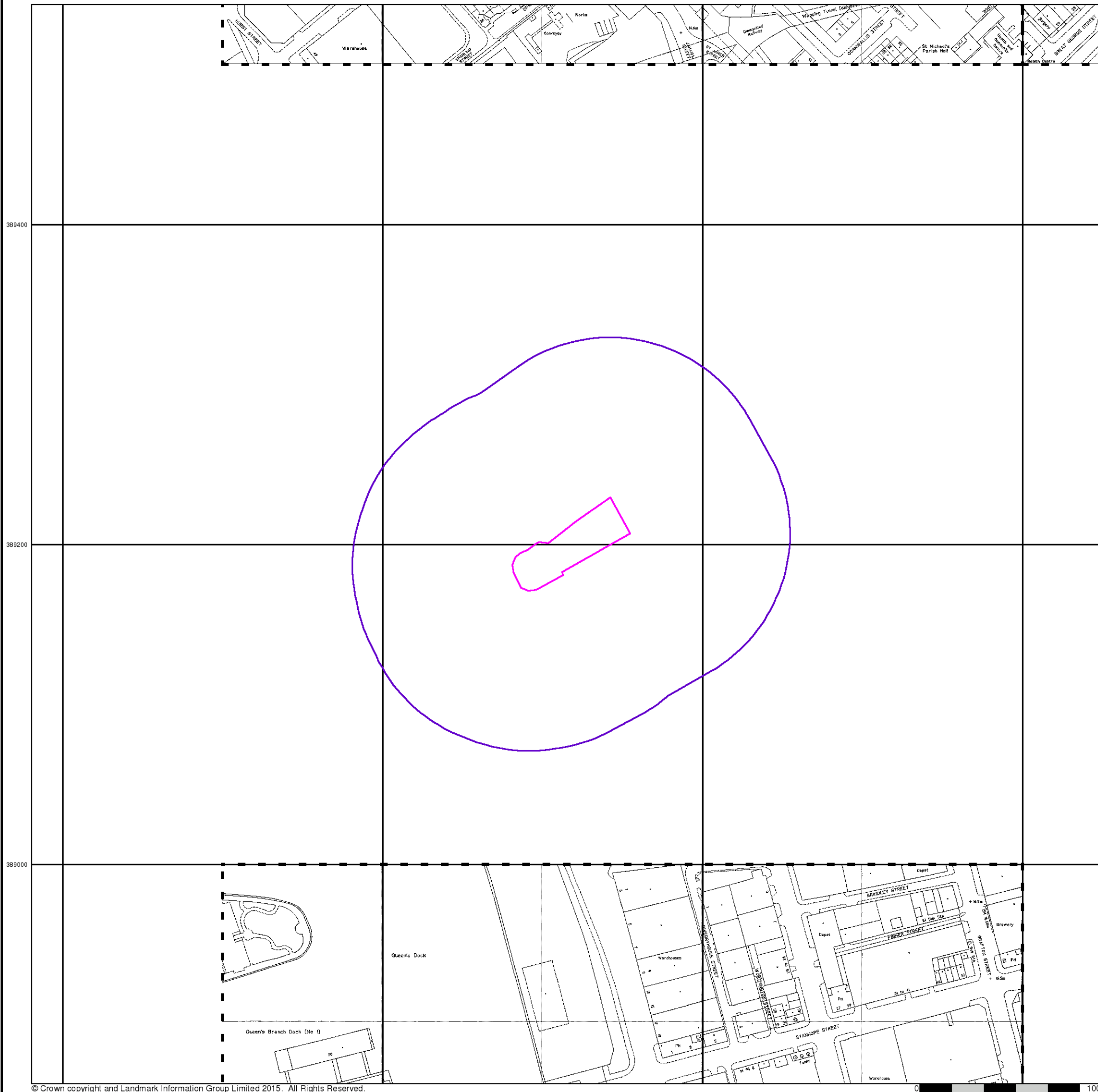


Order Details

Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

Site Details

Norfolk Street, Liverpool, L1 0BG



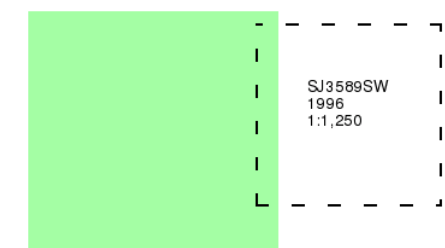
Large-Scale National Grid Data

Published 1996

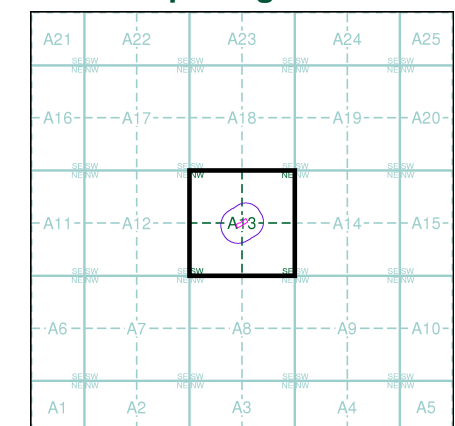
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13

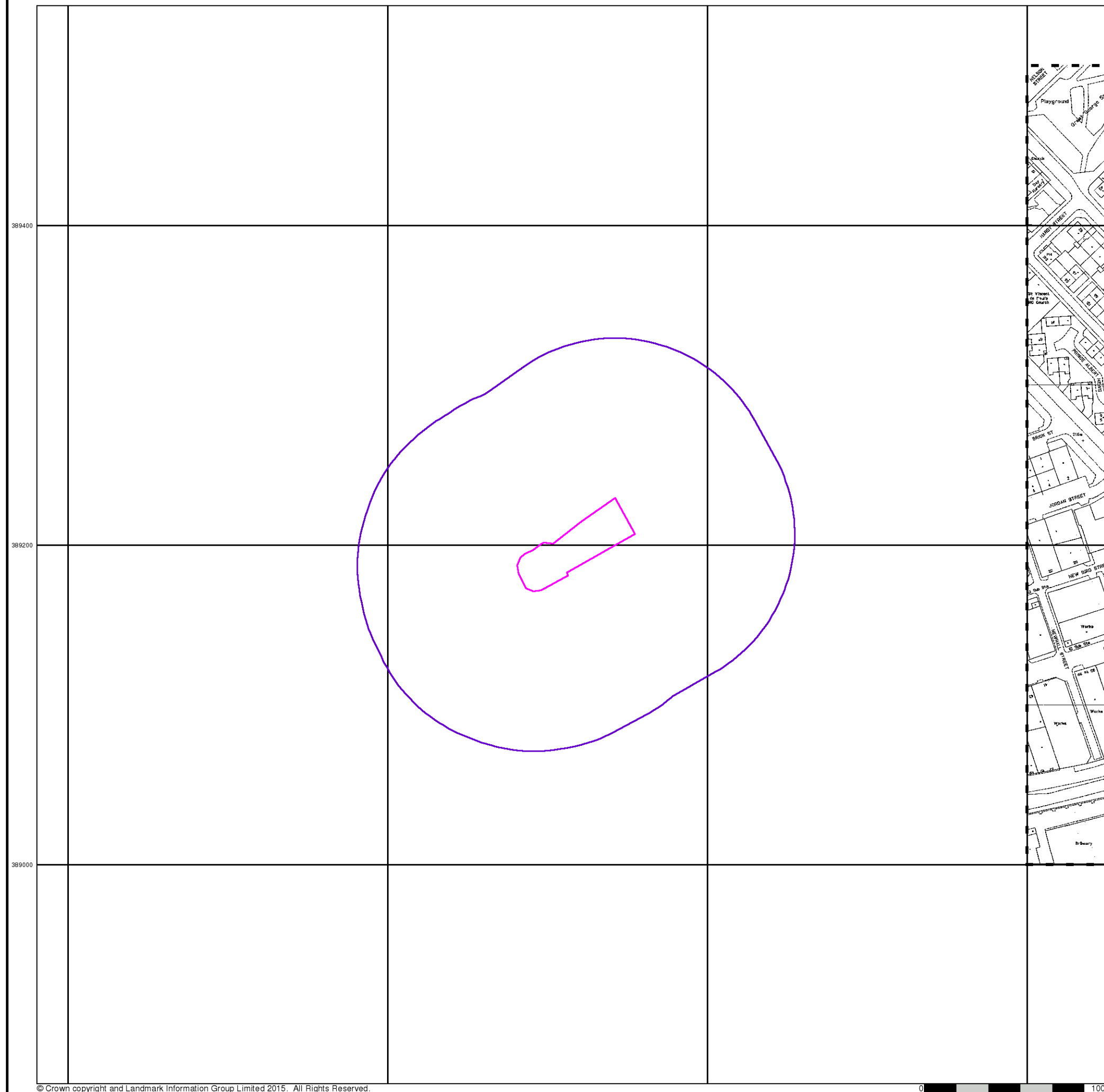


Order Details

Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 100

Site Details

Norfolk Street, Liverpool, L1 0BG



Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

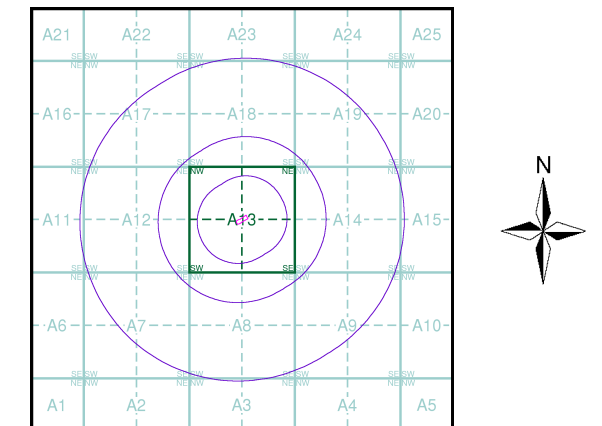
1:10,000 Raster Mapping

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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850 - 1851	3
Cheshire	1:10,560	1881 - 1882	4
Lancashire And Furness	1:10,560	1894	5
Cheshire	1:10,560	1899 - 1900	6
Lancashire And Furness	1:10,560	1910	7
Cheshire	1:10,560	1913	8
Cheshire	1:10,560	1927	9
Lancashire And Furness	1:10,560	1928	10
Cheshire	1:10,560	1938	11
Lancashire And Furness	1:10,560	1938	12
Ordnance Survey Plan	1:10,000	1954 - 1957	13
Ordnance Survey Plan	1:10,000	1956	14
Ordnance Survey Plan	1:10,000	1966 - 1968	15
Ordnance Survey Plan	1:10,000	1973 - 1978	16
Liverpool	1:10,000	1974	17
Ordnance Survey Plan	1:10,000	1982 - 1987	18
Ordnance Survey Plan	1:10,000	1989	19
Ordnance Survey Plan	1:10,000	1990 - 1991	20
10K Raster Mapping	1:10,000	2006	21
VectorMap Local	1:10,000	2015	22

Historical Map - Slice A



Order Details

Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
Search Buffer (m): 1000

Site Details

Norfolk Street, Liverpool, L1 0BG

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings

Military and Industrial Buildings

Military and Communication Areas

Subway Entrance

Fireproof Building

Prominent Fireproof Building

Non-fireproof Building

Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys

Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale

Hydroelectric Power Station

Radio Station, drawn to scale

Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry

Open-pit Salt Mine

Pit

Oil Deposit or Well

Oil Seepage

Tailings Pile

Fuel Storage Tanks

Natural Gas Tank

Bench Mark

Drill Hole

Burial Mound

Triangulation Point on Burial Mound

Single-track Railroad

Double-track Railroad and Station Building

Coniferous Forest

Deciduous Forest

Mixed Forest

Lawns

Citrus Orchard

Wet Ground

Scattered Vegetation

243.8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0.2 Velocity of the current, width of river bed, depth of river

180 120 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings

Military and Industrial Buildings

Military and Communication Areas

Subway Entrance

Partly Demolished Buildings

Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant

Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building

Prominent Industrial Building

Individual Dwelling, Fireproof

Ruins of an Individual Dwelling

Factory or Mill Chimney

Factory or Mill with Chimney

Factory or Mill without Chimney

Mine or Open Pit Mine

Operating Shaft or Mine

Non-Operating Shaft or Mine

Salt Mine

Tailings Pile

Pit

Stone Quarry

Gas Pump or Service Station

Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick

Small Hydroelectric Power Station

Power Station

Transformer Station

Cemetery

Burial Mound (height in metres)

Triangulation Point on Burial Mound

Triangulation Point

Bench Mark

Bench Mark (monumented)

Telegraph Office

Telephone Station

Radio Station

Radio Tower

Airfield or Seaplane Base

Landing Strip

Cut

Fill

Km Post

Plantings

Telegraph/Telephone Lines

Main Highway

Highway under Construction

Improved Dirt Road (former truck road)

Steep Grade

Small Bridge

Pipe (Culvert)

Tunnel

Dismantled Railroad

Double-track Railroad with First Class Station

Railroad Under Construction

Shore Embankment

River or Ditch with Embankment

Direction and velocity of current

Water Gauge

Water Level Mark

Well

Water Reservoir or Rain Water Pit

Spring

Isobath with value

Heavy (Index) Contour Line

Contour Line and Value

Half Contour Line

Spot Elevation Value

Coniferous

Deciduous

Mixed

Scrub

Key to Numbers on Mapping

SJ38NW_Liverpool

No.	Description
13	Docks
16	Docks

SJ39SE_Liverpool

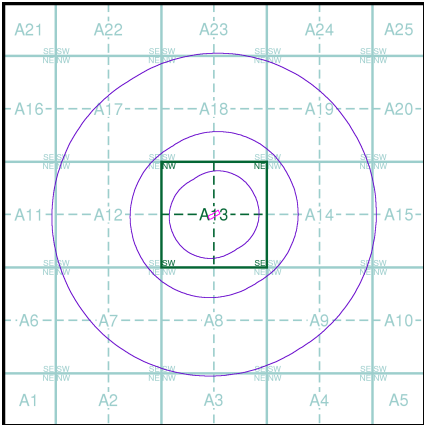
No.	Description
5	Railway Station (Passenger)



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850 - 1851	3
Cheshire	1:10,560	1881 - 1882	4
Lancashire And Furness	1:10,560	1894	5
Cheshire	1:10,560	1899 - 1900	6
Lancashire And Furness	1:10,560	1910	7
Cheshire	1:10,560	1913	8
Cheshire	1:10,560	1927	9
Lancashire And Furness	1:10,560	1928	10
Cheshire	1:10,560	1938	11
Lancashire And Furness	1:10,560	1938	12
Ordnance Survey Plan	1:10,000	1954 - 1957	13
Ordnance Survey Plan	1:10,000	1956	14
Ordnance Survey Plan	1:10,000	1966 - 1968	15
Ordnance Survey Plan	1:10,000	1973 - 1978	16
Liverpool	1:10,000	1974	17
Ordnance Survey Plan	1:10,000	1982 - 1987	18
Ordnance Survey Plan	1:10,000	1989	19
Ordnance Survey Plan	1:10,000	1990 - 1991	20
10K Raster Mapping	1:10,000	2006	21
VectorMap Local	1:10,000	2015	22

Russian Map - Slice A



Order Details

Order Number: 73463009_1_1

Customer Ref: 10/0795

National Grid Reference: 334720, 389200

Slice: A

Site Area (Ha): 0.18

Search Buffer (m): 1000

Site Details

Norfolk Street, Liverpool, L1 0BG



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Lancashire And Furness

Published 1850 - 1851

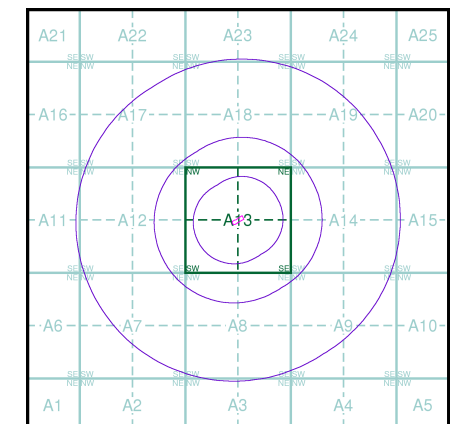
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

10600
1851
1:10,560
11300
1850
1:10,560

Historical Map - Slice A



Order Details

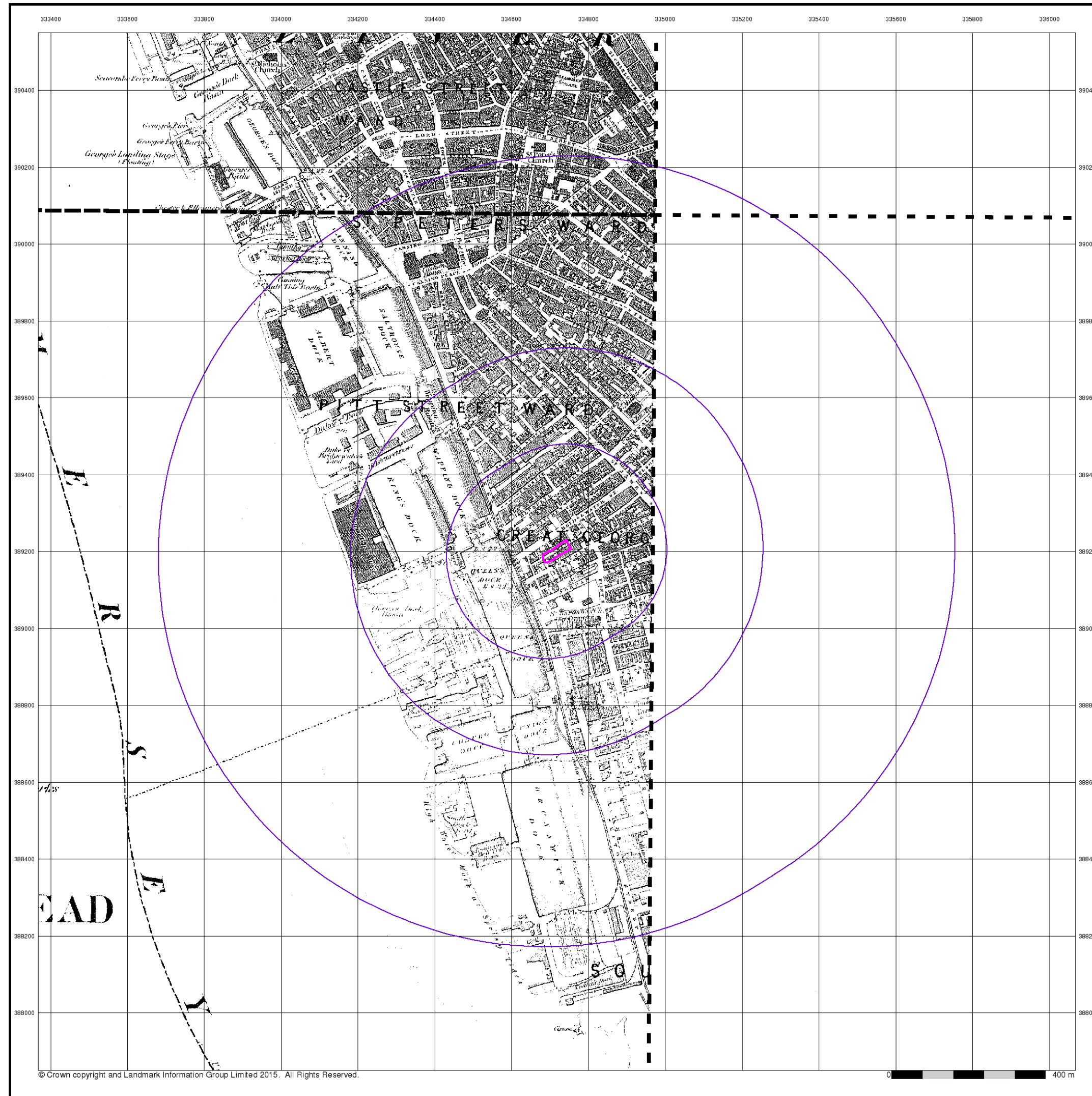
Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
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Site Details

Norfolk Street, Liverpool, L1 0BG



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Fax: 0844 844 9951
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Cheshire

Published 1881 - 1882

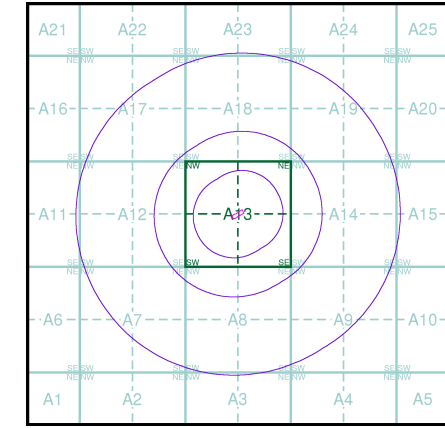
Source map scale - 1:10,560

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)

00700 1882 1:10,560		01400 1881 1:10,560
01300 1882 1:10,560		

Historical Map - Slice A



Order Details

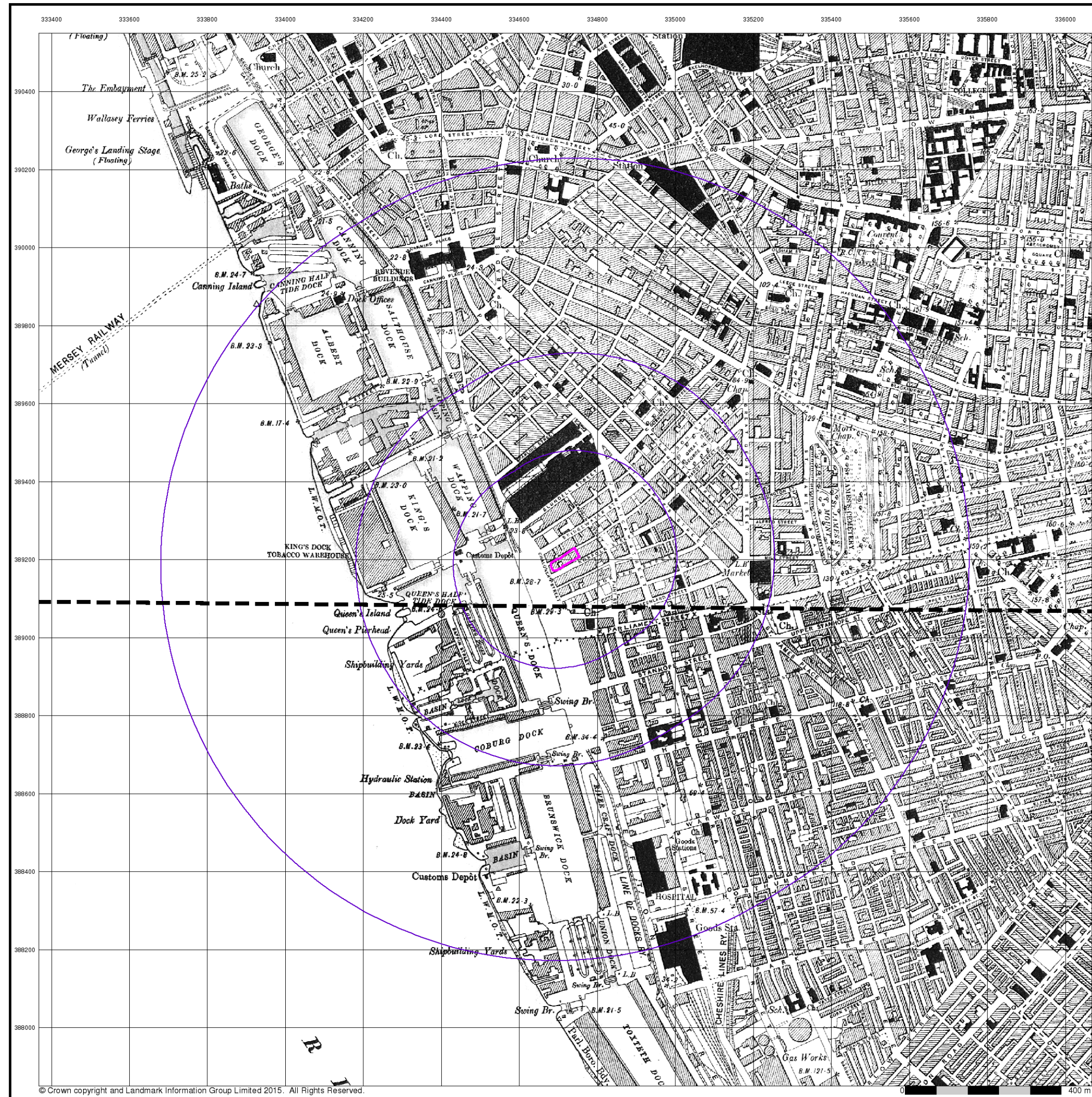
Order Number: 73463009_1_1
Customer Ref: 10/0795
National Grid Reference: 334720, 389200
Slice: A
Site Area (Ha): 0.18
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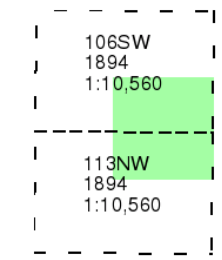
Lancashire And Furness

Published 1894

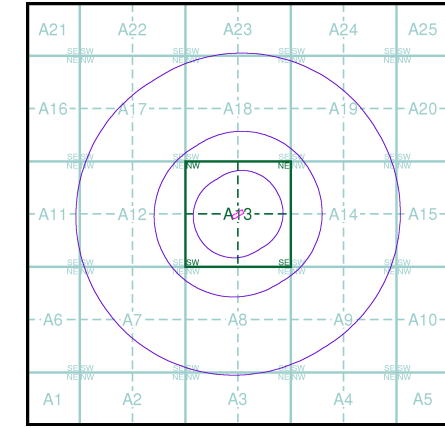
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Cheshire

Published 1899 - 1900

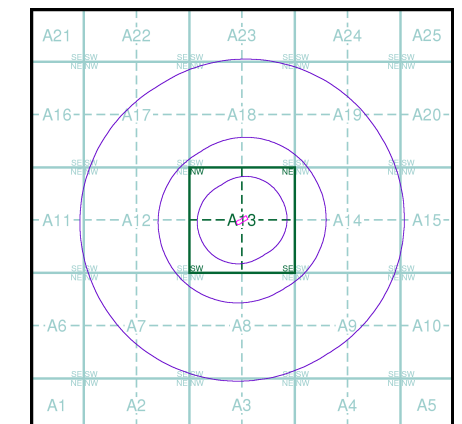
Source map scale - 1:10,560

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)

007SE	1900	1:10,560
013NE	1899	1:10,560

Historical Map - Slice A



Order Details

Order Number: 73463009_1_1
 Customer Ref: 10/0795
 National Grid Reference: 334720, 389200
 Slice: A
 Site Area (Ha): 0.18
 Search Buffer (m): 1000

Site Details

Norfolk Street, Liverpool, L1 0BG

