



Solum House
Unit 1 Elliott Court
St. Johns Road
Meadowfield
Durham, DH7 8PN

Tel: (0191) 378 6380

e-mail: admin@arc-environmental.com
www.arc-environmental.com



PHASE 1: DESK TOP STUDY & COAL MINING RISK ASSESSMENT REPORT

**PROPOSED DEVELOPMENT VEOLIA
HUYTON FOOD WASTE PROJECT
ELLIA ASHTON STREET
LIVERPOOL
L36 6BJ**

Project No: 24-787

Prepared By:

Shona Hetherington

Date: 03/02/2025

Approved By:

Darren McGrath

Date: 03/02/2025

The information and / or advice contained in this Phase 1: Desk Top Study & Coal Mining Risk Assessment Report is based solely on, and is limited to, the boundaries of the site, the immediate area around the site, and the historical use(s) unless otherwise stated. This 'Report' has been prepared to collate information relating to the physical, environmental and industrial setting of the site, and to highlight, where possible, the likely problems that might be encountered when considering the future development of this site for the proposed end use. All comments, opinions, diagrams, cross sections and / or sketches contained within the report, and / or any configuration of the findings is conjectural and given for guidance only and confirmation of the anticipated ground conditions should be considered before development proceeds. Agreement for the use or copying of this report by any Third Party must be obtained in writing from Arc Environmental Limited (ARC). If a change in the proposed land use is envisaged, then a reassessment of the site should be carried out.

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1.0 Introduction

January 2025

Arc Environmental Limited (ARC) has been instructed by Alan Wood and Partners on behalf of Veolia to undertake a Phase 1: Desk Top Study & Coal Mining Risk Assessment Report, within the existing Veolia Waste Transfer Station located off Ellis Ashton Street, Liverpool, L36 6BJ. Proposed development plans include the construction of a new food waste bulking facility within the current Refuse Treatment site.

The primary objectives of this report are to assess the geological, hydrogeological and hydrological conditions of the site, as well as any potential ground contamination issues on and beneath the surface, and a Preliminary Conceptual Site Model (CSM) has been developed to help define the scope and extent of any further intrusive investigation works that might be required, particularly with respect to possible ground contamination issues and hydrogeological conditions.

A recent site reconnaissance (walkover) survey was completed as part of this study with site photographs included within Appendix I, and all relevant observations noted in Section 2.1 below.

2.0 Physical Setting

2.1 Site Details: -

Table 2.1

Site Name & Address:	Veolia Huyton Food Waste Project, Ellis Ashton Street, Liverpool, L36 6BJ
National Grid Reference:	345800, 390160 (representative for the central part of the whole site).
Client:	Veolia
Description of Location:	The site is located within the south-east corner of a wider refuse treatment site located south of Ellis Ashton Street and east of Link Road. The wider site comprises a large warehouse within the west of the site and a smaller office and welfare building within the north-east of the site. The site itself comprises a number of storage containers and is surrounded by trees and hedges on the southern, western and eastern perimeters. The Logwood Mill Brook is located immediately to the east of the site.
Site Shape & Development Details:	The site is rectangular in shape and occupies a total area of approximately c.0.08 Hectares (Ha). The proposed new food waste bulking facility will be within the centre of the site.
General Topography:	No topographical data has been provided for the site, the current site level within the centre of the site is estimated to be c.26m AOD.
Site Surfacing:	The site comprises concrete hardstanding.
Above ground structures:	Several storage containers are present within the south site.
Sub-surface Structures & Services:	Live services including, electric, water and telecoms are expected to be present across the site associated with the current warehouse and office building adjacent. Cadent Gas utility service plans have been provided for this site and record no gas beneath the site.
Summary of Site History:	From the historical records reviewed since c.1849 show the site as undeveloped woodland until 1892 when it is recorded as agricultural field. There is industrial development surrounding the site recorded as early as the 1960s, the site is recorded to be within the south-east of an industrial compound / food waste treatment site in c.1987. The site comprises storage containers from as early as c.1993 until the present day. Adjacent salient features include mining and quarrying works, residential and significant industrial development and the construction of the M57 and M62.

3.0 Environmental Setting

3.1 Site Geology: -

The geological and mining assessments for this site have been based on geological maps published by the BGS and publicly available information. The following documents have been reviewed as part of this study;

- BGS online Geoindex Map Viewer
- CA Interactive Map Viewer.
- Coal Authority Consultants Coal Mining Report (ref. 51003471366001)
- BGS 1:50,000 Geology Series, Liverpool Bedrock 1980 Sheet 97
- BGS Trial Pit; SJ49SE301

3.1.1 Made Ground: -

According to published BGS data, the site is not recorded to be underlain by significant thicknesses of made ground, however made ground is expected, associated with previous on site and adjacent developmental interactions.

According to Envirocheck Historical Mapping Series the site has been encroached by industrial development and compounds as far back as c.1974. The surrounding area has undergone various phases of development and redevelopment since the 1960s. Made ground deposits are anticipated to comprise a mixture of disturbed natural strata (clays, etc.) and anthropogenic debris (construction waste / demolition rubble etc.).

3.1.2 Superficial Deposits: -

The published BGS data indicates that the site is underlain by Glacial Till (sandy gravelly clay with bands of sands and gravels).

BGS Trial Pit with reference SJ49SE301, c.50m south of the site, records made ground overlying firm grey becoming orangish brown, silty sandy clay with fine to coarse gravel from a depth of c.1.40m below ground level (bgl) to c.1.90m bgl. Underlain by firm to stiff, reddish brown occasionally grey silty sandy clay with fine to coarse gravel, recorded to a depth of c.2.70m bgl.

3.1.3 Solid Geology: -

The solid geology underlying the site is shown to comprise that of the Carboniferous Pennine Middle Coal Measures (PMCM) Formation – sandstone, which typically comprises interbedded grey mudstone, siltstone, pale grey sandstone and commonly coal seams, with a bed of mudstone containing marine fossils at the base, and several such marine fossil-bearing mudstones in the upper half of the unit.

BGS Trial Pit SJ49SE301 records highly weathered mudstone (recorded as stiff clay) to a depth of at least c.3.00m bgl.

A geological fault is also shown on the western site boundary, with the downthrow to the south-east. A number of faults are also present within the Pennine Lower Coal Measures within close proximity to the site.

3.0 Environmental Setting (Cont'd)

3.2.1 Coal Mining Risk Assessment: -

According to published BGS data the site lies within a coal mining area, the Bastion Mine Coal Seam is the shallowest recorded coal seam below the site, recorded to sub crop c.100m north of the site. Dipping to the south below the site.

The Mining Remediation Authority Map Viewer records the site as being within a Coal Mining Reporting Area, a defined 'Development High Risk Area' (DHRA), and an 'Area of Past / Probable Shallow Coal Mine Workings'.

To aid in the coal mining risk assessment, a Consultants Coal Mining Report was obtained for this site from the Mining Remediation Authority (ref. 51003471366001), a copy of which is attached in Appendix III.

From the information included within the Consultants Coal Mining Report, the site is not shown to be underlain by recorded workings. However, there are 5 recorded workings to the east and north of the site (London Delph, St. Helens Yard, Higher Florida, Lower Florida and Wigan Four Feet) at depths of between c.100m and c.287m bgl.

The site is recorded within an area of probable unrecorded shallow coal workings.

The CA report indicates that there no mine entries within c.500m of the site, there are no spine roadways recorded at shallow depths, no remediated sites or mine gas emissions within c.500m of the site boundary. The CA has not received any damage notices or claims for this site or any property within 50m of the site boundary since 31st October 1994.

When considering the above, further assessment by means of intrusive investigation works (i.e. rotary boreholes) will be required to determine the risk from potential unrecorded shallow coal workings.

In accordance with CL:AIRE guidance 'Good Practice for Risk Assessment for Coal Gas Emissions' (Oct 2021), figure 13.1: Decision Support Tool for Mine Gas Risk Assessment (copy attached in appendix II), there is a low risk from hazardous ground gas. In order to confirm the risk further assessment is required.

3.2.2 Surface Mineral Extraction: -

There are no records of any former extraction features on or within an influencing distance to the site which may impact on the site. The site does not lie within the Cheshire Brine Subsidence Compensation District, therefore the risk to subsidence due to brine extraction is considered negligible.

3.3 Potential Geological Hazards

Table 3.1

Potential Geological Hazard:	<u>Comments</u>
Land Slip:	Very low risk.
Shrinkable Soils:	Very low risk.
Collapsible Soils:	Very low risk.
Compressible Soils:	No hazard.
Running Sand:	Very low risk.
Ground Dissolution:	No hazard.

3.0 Environmental Setting (Cont'd)

3.4 Site Hydrogeology: -

Table 3.2

STRATA	Aquifer / Soil Leachability EA Classification	Comments
Groundwater Vulnerability Map:	Secondary Superficial Aquifer: Low Vulnerability Combined: Low Vulnerability	Productive bedrock aquifer, productive superficial aquifer, well connected fractures, 300-500 mm/year
Drift Geology: (Glacial Till)	Secondary Aquifer – Undifferentiated	These aquifers are where it is not possible to apply either a Secondary A or B definition because of the variable characteristics of the strata type. These have only a minor value.
Solid Geology: (Pennine Middle Coal Measures)	Secondary A Aquifer	Permeable deposits capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.
Water Framework Directive: Solid Geology	Secondary Aquifer – A	Overall rating – Poor
GROUNDWATER	Location / Presence	Comments
Source Protection Zones (SPZ):	The site does not fall within a SPZ.	None within 250m of the site.
Water Abstractions:	None within 250m of the site.	~

3.5 Site Hydrology: -

Table 3.3

SURFACE WATER FEATURE	Location	Comments
OS Water Network:	Seven recorded within c.250m of the site.	There are seven OS Water Networks recorded within c.250m of the site, the closest being Logwood Mill Brook, c.17m south-east of the site.
Unclassified Watercourse(s), Canals, Ponds & Lakes:	None recorded within c.250m of the site.	There are no unclassified water courses, canals, ponds or lakes within c.250m of the site.
Flooding from Rivers and the Sea: (Fluvial)	The site does not lie within an area that is susceptible to fluvial or tidal flooding	The EA considers the site to be in an area with very low risk of fluvial flooding (<0.1% annual chance). The whole of the site is categorised in a Flood Zone 1.
Surface Water Flooding: (Pluvial)	The EA indicate the site to be at low risk from pluvial (surface water) flooding.	The EA considers the site to be at no risk from pluvial flooding (<0.1% annual chance).
Groundwater Flooding at Surface (BGS):	The site is located an area of where limited potential for groundwater flooding to occur.	The majority of the site is shown to have limited potential for groundwater flooding to occur. The north-west corner of the site has potential for groundwater flooding to occur at surface.
RAINFALL	Measurements (mm)	Comments
Annual	824.32	Based on station average measurements from Crosby, during 1991-2020.
Precipitation, Max (Dec)	91.86	
Precipitation, Min (Apr)	49.83	

3.0 Environmental Setting (Cont'd)

3.6 Radon Assessment: -

According to the Envirocheck Report, the site is recorded to lie in an lower probability radon area (less than 1% of homes are estimated to be at or above the action level). In accordance with the BGS, National Geoscience Information Service, and their assessment suggests that no radon measures are necessary for the site.

The BRE Digest, BR211 (2015) Radon: Guidance on Protective Measures for New Buildings indicates that the site is situated within a 1km clear grid indicating the maximum radon potential is less than 1%. According to UK Radon (dated December 2022), the site is recorded to be within an area where the maximum radon potential is 3-5%. To confirm the radon measures required for any new development, a site-specific radon report should be procured before any works are undertaken.

3.7 Site Ecology: -

Table 3.4

FEATURES	Location	Comments
Local Nature Reserves:	None recorded within c.250m.	~
Areas of Adopted Green Belt:	One recorded within c.250m.	EC ref. 337 Area of Adopted Green Belt located c.227m north-east of the site associated with Knowsley Metropolitan Borough Council.
Special Protection Areas:	None recorded within c.250m.	~
Nitrate Vulnerable Zone:	One recorded on site.	EC ref. 1339 Surface water – Alt Nvz located on site.
World Heritage Sites:	None recorded within c.250m.	~

There was no visual evidence to suggest that the site is affected by the presence of invasive weed species such as Japanese Knotweed, Giant Hogweed or Himalayan Balsam, at the time of the recent site survey, although a site-specific survey has not been carried out. Therefore, site awareness during future investigation works and during the construction phase for any potential invasive weed species would be considered prudent.

3.8 Estimated Soil Chemistry: -

Data provided by the BGS in relation to estimated soil chemistry for a number of key metals and metalloid elements are summarised in Table 3.5 below.

Table 3.5

Element	Soil Sample Type	Estimated Soil Concentrations (mg/kg)
Arsenic	Rural Soil	<15
Cadmium	Rural Soil	1.8 – 2.2
Chromium (total)	Rural Soil	60 - 90
Lead	Rural Soil	200 - 300
Nickel	Rural Soil	15 – 30

Note; the references to the anticipated background concentrations of contaminants, sourced from the BGS, should not be relied upon. They are not site-specific and do not represent the condition of the ground at the proposed development site.

4.0 Industrial Setting

4.1 Site History: -

Copies of historical OS maps covering this site and adjacent land are included in Appendix III, and a summary of the site history based on these plans is provided in Table 4.1 below and on the following page.

Table 4.1

Significant features / potential contamination sources highlighted in **bold**.

Date	Site	Adjacent Areas
c.1849 – c.1850	The site comprises an area of woodland within the south-west of a larger area of woodland.	The the surrounding area comprises agricultural fields . A railway line is recorded c.250m north-east of the site joining the main Huyton Quarry Railway Line , recorded c.750m north-west of the site. Logwood Farm and Logwood Mill is recorded c.200m south of the site. Coal pits and collieries are recorded c.200-250m south-west and c.250m to c.500m north-east of the site. Roads run north-east to south-west, c.600m south-east and north-west to south-east, c.750m south of the site. Logwood Mill Brook runs immediately north-west and south-west.
c.1892 – c.1894	The woodland on site is no longer recorded, the site now lies within an agricultural field.	Another railway line has been constructed, c.1km north-west of the site adjoining the Huyton Quarry Line . The coal pits and collieries c.250m to c.500m of the site have been infilled and Old Shaft is recorded c.300m north-east of the site. An Iron Works is recorded c.300m north-west of the site Huyton Quarry has expanded and now comprises a Gas Works , c.750m north-west of the site.
c.1907	No significant changes recorded.	The Iron Works recorded c.300m north of the site have expanded. Marsh land has been recorded c.300m north-east of the site.
c.1908	No significant changes recorded.	Whiston Metallic Brick Works is recorded c.900m north-east of the site An Electric Lamp Works are located c.500m north-west of the site.
c.1927 – c.1928	No significant changes recorded.	The Iron Works c.300m north of the site are no longer recorded. A Sewage Works is recorded c.200m south-east of the site.
c.1938	No significant changes recorded.	Development north of the Main Railway Line is recorded c.900m north-west of the site.
c.1955 – c.1956	No significant changes recorded.	A Refuse Dump is recorded c.250m north of the site. A Timber Yard and Sawmill is located c.300m north-west of the site.
c.1965 – c.1967	No significant changes recorded.	Residential and Industrial development has taken place c.300m – c.1km west, south-west and north-west of the site. The Sewage Works located c.200m south-east of the site is no longer recorded. Factory buildings are recorded c.250m south-west of the site.
c.1974 – c.1978	No significant changes recorded.	Further Industrial development has taken place immediately north-east to c.500m north-east of the site. Ellis Ashton Street is recorded north of the site. The M57 is recorded c.250m east of the site. The M57 roundabout is recorded adjoining the M62 c.1km south-east of the site. Residential development has taken place c.300m – c.1km east of the site. The old shaft recorded c.300m north-east of the site has been infilled .

4.0 Industrial Setting (Cont'd)

4.1 Site History (Cont'd): -

Table 4.1 (Cont'd)

Significant features / potential contamination sources highlighted in **bold**.

<u>Date</u>	<u>Site</u>	<u>Adjacent Areas</u>
c.1984 – c.1992	The site is now located within an industrial compound .	A Refuse Destructor is recorded c.10m north-east of the site. A site office and parking / unloading bays are also present within the compound immediately to c.10m north of the site. The Logwood Mill Brook has been diverted and now runs c.17.00m south-east of the site.
c.1990 – c.1991	No significant changes recorded.	Further industrial development is recorded surrounding the site. Stadtmoers Park is recorded c.250m north of the site. A Gravel pit / quarry is located c.250m north-east of the site. A pond / water body is recorded c.350m north-west of the site.
c.1993 – c.1994	Storage containers are located within the south of the site.	No significant changes recorded.
c.1999 – c.2024	No significant changes recorded.	Stadtmoers Park is recorded in place of the gravel pit c.250m north-east of the site.

4.2 Landfill & Waste: -

The following information relating to Landfill and Waste has been obtained from the Envirocheck Report and reconnaissance survey.

- There are no BGS or Local Authority recorded Landfill Sites, Registered Landfill Sites, Integrated Pollution Control Registered Waste Sites, Licensed Waste Management Facilities (Landfill Boundaries) within c.250m of the site
- There are two Local Authority Landfill Coverage located on site associated with the existing food waste treatment site.
- There is a Historical Landfill Site located c.126m north-west of the site associated with Tushingham Metallic Brick Works.
- There is one Potentially Infilled Land (Non-Water) located c.245m east of the site associated with a pit or quarry.
- There are seven Potentially Infilled Lane (Water) associated with infilled pond, marsh, river or stream, the closest being c.135m south-west of the site.
- There are registered Waste Transfer Sites, Registered Waste Treatment, Licenced Waste Management Facilities and Disposal Sites within c.250m of the site associated with the Veolia Waste Transfer Station.

Following a review of all the data available, the site is considered to be at potential risk from hazardous ground gas production / migration associated with off-site sources. Therefore a programme of ground gas monitoring in accordance with CIRIA 665 is recommended.

4.3 Statutory Requirements / Authorisations: -

Table 4.2

<u>TYPE</u>	<u>Location</u>	<u>Comments</u>
Contaminated Land Register Entries and Notices	None recorded within c.250m.	~
Enforcement and Prohibition Notices:	None recorded within c.250m.	~

4.0 Industrial Setting (Cont'd)

4.3 Statutory Requirements / Authorisations (Cont'd): -

Table 4.2 (Cont'd)

TYPE	Location	Comments
Integrated Pollution Controls & Prevention and Control:	Four recorded within c.250m.	EC ref. 13 Fcc Recycling Ltd associated with the disposal of non-hazardous waste, recorded c.166m south-east of the site.
Local Authority Integrated Pollution, Pollution Prevention, Controls and Enforcements:	Six recorded within c.250m.	The closest being EC ref. 17 Cemex Ltd, associated with blending, packing and loading cement c.51m north of the site.
Prosecutions Relating to Authorised Processes:	None recorded within c.250m.	~
Registered Radioactive Substances:	None recorded within c.250m.	~
COMAH/Explosive/NI HHS Sites:	One recorded within c.250m.	EC ref. 175 BASF Printing Systems Ltd, c.177m north of the site.
Notification of installations Handling Hazardous Substances (NIHHS):	None recorded within c.250m.	~
Planning Hazardous Substances Consents / Enforcements:	One recorded within c.250m.	EC ref. 179 Charles Tennant & Co, associated with toxic substance, arsenic trioxide, arsenious (III) and acid and salts c.152m west of the site.
Contemporary Trade Entries:	Twenty-four recorded within c.250m.	The closest entry with an active status being EC ref. 202 Tarmac / Cemex UK / Veolia, c.66m north-west of the site.
Fuel Station Entries:	None recorded within c.250m.	~

4.4 Pollution Incidents and Discharge Consents: -

Table 4.3

TYPE	Location	Comments
Discharge Consents:	Seven recorded within c.250m.	The closest being EC ref. 1 United Utilities Water Ltd, Storm Sewage Overflow, c.39m south of the site. There are also cooling water and trade effluent discharge entries within c.250m.
Water Industry Act Referrals:	None recorded within c.250m.	~
Prosecutions Relating to Controlled Waters:	None recorded within c.250m.	~
Pollution Incidents to Controlled Waters:	Three recorded within c.250m.	The closest being EC ref. 31 Category 3 - Minor Incident, oil in freshwater stream within the Mersey Catchment, c.226m north of the site.
Substantiated Pollution Incident Register:	Seven recorded within c.250m.	The closest being EC ref. 52 Air and Land Impact: Category 2 – Significant Incident, c.72m north-east of the site.

4.0 Industrial Setting (Cont'd)

4.5 UXO Risk

According to the Unexploded Bomb Risk Map produced by ZeticaUXO, the site lies within a moderate-risk area in terms of unexploded ordnance. To confirm the risk a detailed UXO has been procured and will be included within the Phase 2 Ground Investigation Report. A copy of the ZeticaUXO Unexploded Bomb Risk Map can be seen attached in Appendix IV.

5.0 Conceptual Site Model (CSM)

The Conceptual Site Model (CSM) is one of the primary planning tools that can be used to support the decision-making process of managing contaminated land and groundwater on any given site and allows a better understanding of what needs to be done to achieve risk management, and from this appropriate remediation techniques, if required for those risk management goals can be chosen.

This can be done by undertaking a *source-pathway-receptor* analysis of the site. The anticipated *sources*, *pathways* and *receptors* for this site are summarised in Table 5.1 below. A graphical representation of the CSM has been produced for the site and can be seen attached in Appendix V, which also sets out the critical pollutant linkages of concern for this site, with regards to contamination.

Table 5.1

	<i>Sources (S)</i>		<i>Pathways (P)</i>		<i>Receptors (R)</i>
S1	Made ground (associated with the historical on-site and adjacent developments).	P1	Ingestion & Dermal Contact	R1	Human health - (End users and workforce)
S2	Potential hazardous ground gas associated with on-site / off-site sources of made ground and mine workings beneath the site.	P2	Inhalation of indoor / outdoor air	R2	Controlled Waters: No shallow groundwater anticipated. Deeper groundwater in the solid geology (Secondary Aquifer – A) Not considered to be at significant risk.
		P3	Surface runoff & Water Infiltration		
S3	Potential 'hot spots' of hydrocarbon contamination associated with the sites current use as a car park.	P4	Direct contact with building materials	R3	Surface water and adjacent sites
				R4*	Building materials and protection of water supply pipes.
				R5*	Flora and fauna

* = Not included in the Human Health & Controlled Waters Risk Assessment.

5.1 Geotechnical Considerations: -

The following potential geotechnical issues and hazards have been identified for this site, and these issues should be considered before future development of the site is to take place;

- Probable unrecorded shallow workings.
-
- Thickness, variability and condition of any made ground below the site.
- Geotechnical parameters of natural deposits below the proposed development building area.
- Control of surface water drainage.
- Presence of buried services.

5.0 Conceptual Site Model (CSM) (Cont'd)

5.1 Geotechnical Considerations (Cont'd): -

- Stability of excavations.
- Chemical attack on buried concrete i.e., BRE SD1 classification.
- Building near trees.

The information reviewed indicates that the site can be considered as being located within a **MODERATE TO HIGH** geotechnical risk setting.

To determine the geotechnical considerations above with more certainty, it is recommended that a programme of intrusive geotechnical investigation works is undertaken on this site with associated in-situ geotechnical testing, to aid in assessing the extent of any potential issues prior to commencing with any development in the future, if any proposed structures, buildings etc.

5.2 Sources of Contamination and Probable Contaminants: -

5.2.1 Soils – Human Health: -

The historical Ordnance Survey maps, Landmark Envirocheck Report, BGS mapping and other environmental information revealed that the site has been mostly undeveloped woodland and agricultural land from as early as c.1849 to the 1960s when industrial development began around the site. The site remained undeveloped until c.1987 when the existing food waste treatment site and associated access areas were constructed. From c.1993 until the present-day storage container were present within the south of the site.

Currently, the site comprises concrete hardstanding and areas of storage. Therefore, variable thicknesses of made ground deposits are anticipated beneath the site, potentially comprising ACMs.

Areas of the site are currently being used as car parking / loading areas, it is possible that contaminants such as fuel and oil spillages may have impacted the site. However, no olfactory or visual evidence (i.e., distinct odours or surface staining) of contamination was apparent during the site reconnaissance survey.

Hazardous ground gas production / migration is considered to be low associated with coal mining risk. There are seven records of potentially infilled land (non-water) and one record of potentially infilled land (water) within c.250m of the site and the site is deemed to be in an area of low to moderate radon probability according to the BGS. The latter should be further assessed by procuring a site-specific radon report.

In order to assess the associated risks to human health and environmental impact the following outline geo-environmental testing is recommended:

- Generic contamination suite, typically comprising; Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Zinc, Total Organic Carbon, (TOC) and pH.
- Asbestos screening (and quantification if encountered).
- Speciated Polyaromatic Hydrocarbons (PAHs) and Total Petroleum Hydrocarbons (TPHs) should be undertaken, where ashy type deposits are encountered and if there is any visual or olfactory evidence of fuels /oils or other wastes e.g. ash, present in the ground.

Waste Acceptance Criteria (WAC) testing is additionally recommended to aid in off-site soil disposal to landfill.

5.0 Conceptual Site Model (CSM) (Cont'd)

5.2 Sources of Contamination and Probable Contaminants (Cont'd): -

5.2.1 Soils – Human Health (Cont'd): -

Consideration should also be given to the protection of any new service pipes for the proposed development, and a suite of contamination testing (UKWIR suite) may be required in order to meet the requirements of the local utilities service provider for their 'pipe selection risk assessment' (PSRA), once the location and depth of future services have been determined.

The information reviewed indicates that the majority of the site can be considered as being located within a **LOW TO MODERATE** ground contamination risk setting for Human Health.

5.2.2 Controlled Waters

The following issues have been taken into consideration when assessing the risks towards Controlled Waters;

- The solid geology (Pennine Middle Coal Measures) is classified as a Secondary A Aquifer
- The superficial drift (Glacial Till) is classified as a Secondary Aquifer – Undifferentiated.
- There are no Source Protection Zones (SPZs) within c.1km of the site.
- There are no Water Abstractions recorded within c.250m of the site boundary.
- There are seven water bodies within c.250m of the site.

The information reviewed indicates that the site can be considered as being located within a **LOW** ground contamination risk setting for Controlled Waters.

6.0 Recommendations for Phase 2 : Gound Investigation Works: -

The conclusions contained within this report have been based on a review of geological plans, historical plans and available environmental data relating to the site and nearby adjacent land and forms the basis of a preliminary risk assessment. The primary benefits of undertaking this report are as follows:

- (i) Identify the geotechnical and/or geoenvironmental characteristics of the ground in sufficient detail to quantify any potential risk from ground contamination at the site and for the economic design of any future site / proposed development, construction or associated remedial works.
- (ii) Minimise the risk of unforeseen ground conditions which might cause increased costs and / or programme (construction) delays later.

Therefore, it is recommended that a programme of Phase 2: Ground Investigation (intrusive investigation) works are completed to provide an assessment of the geo-environmental characteristics of the site, prior to commencing with any future development works and should include for the following or a similar scope of investigation works:

- A series of windowless sample boreholes to confirm the ground conditions and aid with foundation design with insitu sampling and testing (i.e., SPT's etc).
- A series of deeper rotary boreholes to investigate potential shallow mine workings below the site.

6.0 Recommendations for Phase 2 : Gound Investigation Works (Cont'd): -

- Installation of combined ground gas and groundwater monitoring wells accompanied by an appropriate number of monitoring and groundwater sampling visits (in accordance with CIRIA C665 & BS8485), in order to determine the ground gas and groundwater regime below the site.
- Appropriate laboratory geotechnical testing on the samples recovered from the site, including chemical testing for concrete classification.
- Appropriate laboratory soil and leachate / groundwater contamination screening on samples of made ground materials to determine the potential risks to Human Health, testing to include analytes as highlighted in Section 5.3.
- Site supervision and production of RAMS and interpretive Phase 2: Ground Investigation Report, including a Ground Contamination Risk Assessment and Waste Classification of soils.

The samples of soil collected should be forwarded to a UKAS and MCERTS accredited laboratory to undertake the recommended testing.

End of Report

APPENDIX I

Location Plan

Aerial Photograph

Existing Site Layout Plan

Proposed Development Layout Plan

Site Photographic Record Sheets

Utility Survey Report

Scale as shown



Client:

ALAN WOOD & PARTNERS

Project Title:

Proposed Development Veolia
Huyton Food Waste Project
Ellia Ashton Street, Liverpool

Drawing Title:

Location Plan

Job Reference:

24-787

Drawing Number:

-

Revision:

Drawn by:

P.D

Date:

04.02.25

Scale at A4:

As shown

Checked by:

S.H

Approved by:

S.H

The contractor shall check all dimensions on site before commencement of any works.
No dimensions to be scaled off this drawing.

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rev.	date	amendments	drawn	chckd

ARC ENVIRONMENTAL LTD

Solum House
Unit 1 Elliott Court
St. John's Road
Meadowfield
Durham
DH7 8PN

Tel: (0191) 378 6380

e-mail: admin@arc-environmental.com

web: www.arc-environmental.com





ARC ENVIRONMENTAL LTD

Solum House
Unit 1 Elliott Court
St. John's Road
Meadowfield
Durham, DH7 8PN
Tel: (0191) 378 6380
e-mail: admin@arc-environmental.com
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LEGEND	
	APPROXIMATE SITE BOUNDARY

rev.	date	amendments	drawn	chckd

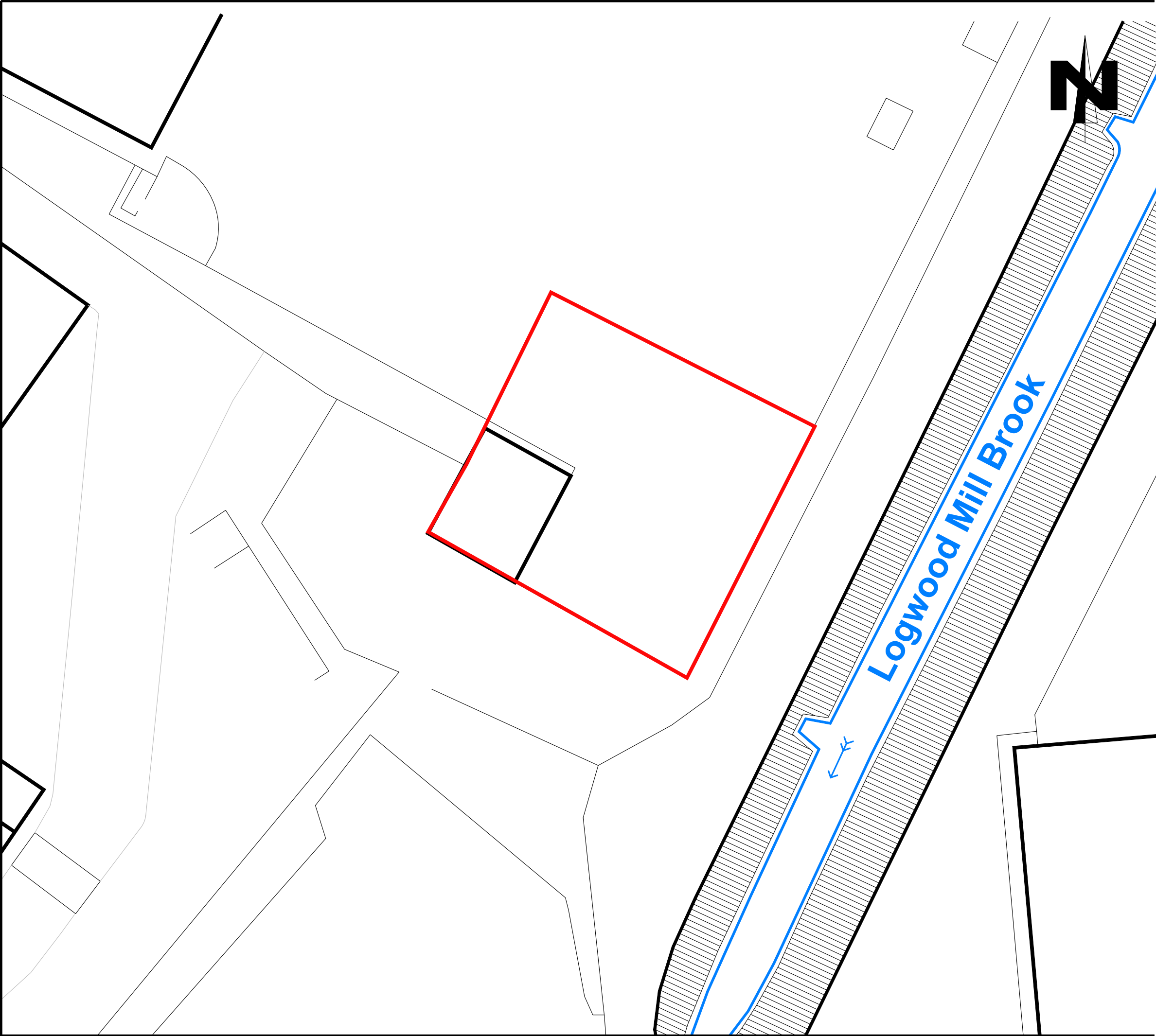
Client:
ALAN WOOD & PARTNERS

Project Title:
Proposed Development Veolia
Huyton Food Waste Project
Ellia Ashton Street, Liverpool, L36 6BJ

Drawing Title:
Aerial Photograph

Scale at A3: NTS @ A3	Date: 21.01.25	Drawn by: P.D	Approved by: S.H
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Job Ref: 24-787	Drg no: —	Rev: —
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Unit 1 Elliott Court
St. John's Road
Meadowfield
Durham, DH7 8PN
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e-mail: admin@arc-environmental.com
web: www.arc-environmental.com

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LEGEND	
	APPROXIMATE SITE BOUNDARY

rev.	date	amendments		drawn	chckd

Client:
ALAN WOOD & PARTNERS

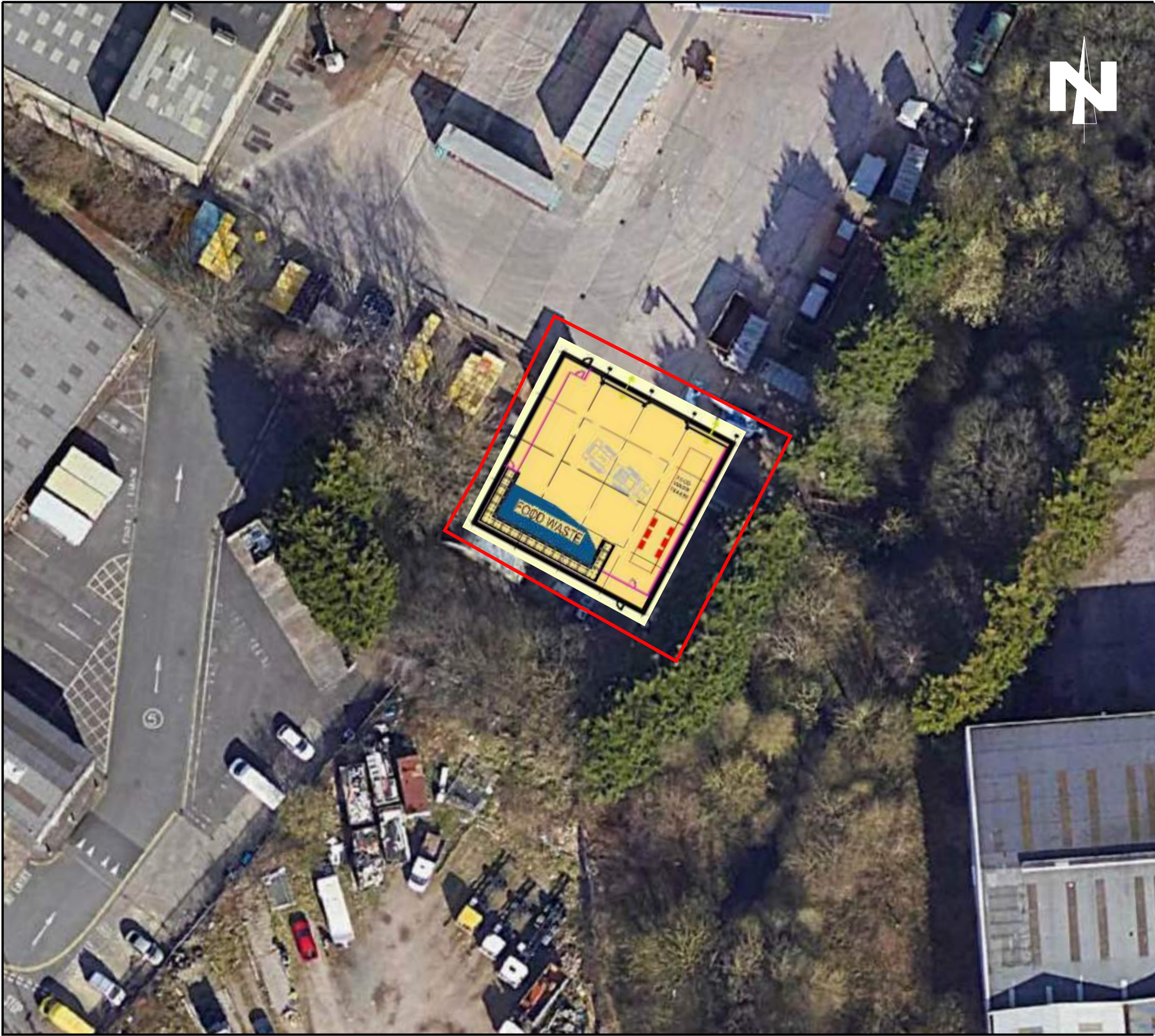
Project Title:
Proposed Development Veolia
Huyton Food Waste Project
Ellia Ashton Street, Liverpool, L36 6BJ

Drawing Title:

Existing Site Layout Plan

Scale at A3: NTS @ A3	Date: 21.01.25	Drawn by: P.D	Approved by: S.H
--------------------------	-------------------	------------------	---------------------

Job Ref: 24-787	Drg no: —	Rev: —
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Solum House
Unit 1 Elliott Court
St. John's Road
Meadowfield
Durham, DH7 8PN
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LEGEND	
	APPROXIMATE SITE BOUNDARY

rev.	date	amendments			drawn chkd

Client:
ALAN WOOD & PARTNERS

Project Title:
Proposed Development Veolia
Huyton Food Waste Project
Ellia Ashton Street, Liverpool, L36 6BJ

Drawing Title:

Proposed Development Layout Plan

Scale at A3: NTS @ A3	Date: 21.01.25	Drawn by: P.D	Approved by: S.H
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Job Ref: 24-787	Drg no: —	Rev: —
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	APPROXIMATE SITE BOUNDARY

rev.	date	amendments	drawn	chckd

Client:
ALAN WOOD & PARTNERS

Project Title:
Proposed Development Veolia
Huyton Food Waste Project
Ellia Ashton Street, Liverpool, L36 6BJ

Drawing Title:
Site Photographic Record Sheet 1

Scale at A3: NTS @ A3	Date: 21.01.25	Drawn by: P.D	Approved by: S.H
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Job Ref: 24-787	Drg no: —	Rev: —
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Solum House
Unit 1 Elliott Court
St. John's Road
Meadowfield
Durham, DH7 8PN
Tel: (0191) 378 6380
e-mail: admin@arc-environmental.com
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LEGEND	
	APPROXIMATE SITE BOUNDARY

rev.	date	amendments	drawn	chckd

Client:
ALAN WOOD & PARTNERS

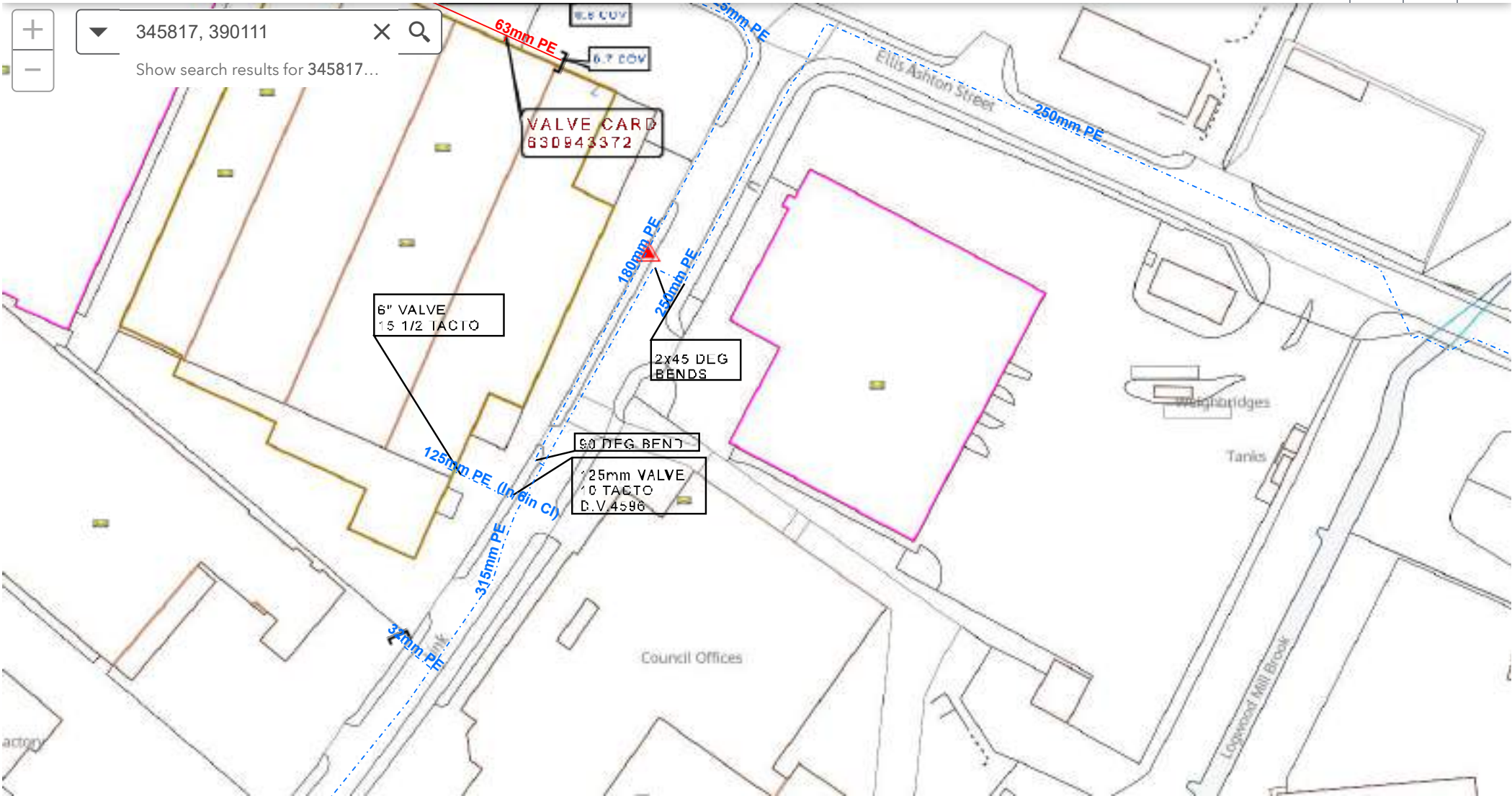
Project Title:
Proposed Development Veolia
Huyton Food Waste Project
Ellia Ashton Street, Liverpool, L36 6BJ

Drawing Title:

Site Photographic Record Sheet 2

Scale at A3: NTS @ A3	Date: 21.01.25	Drawn by: P.D	Approved by: S.H
--------------------------	-------------------	------------------	---------------------

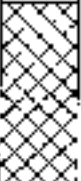
Job Ref: 24-787	Drg no: —	Rev: —
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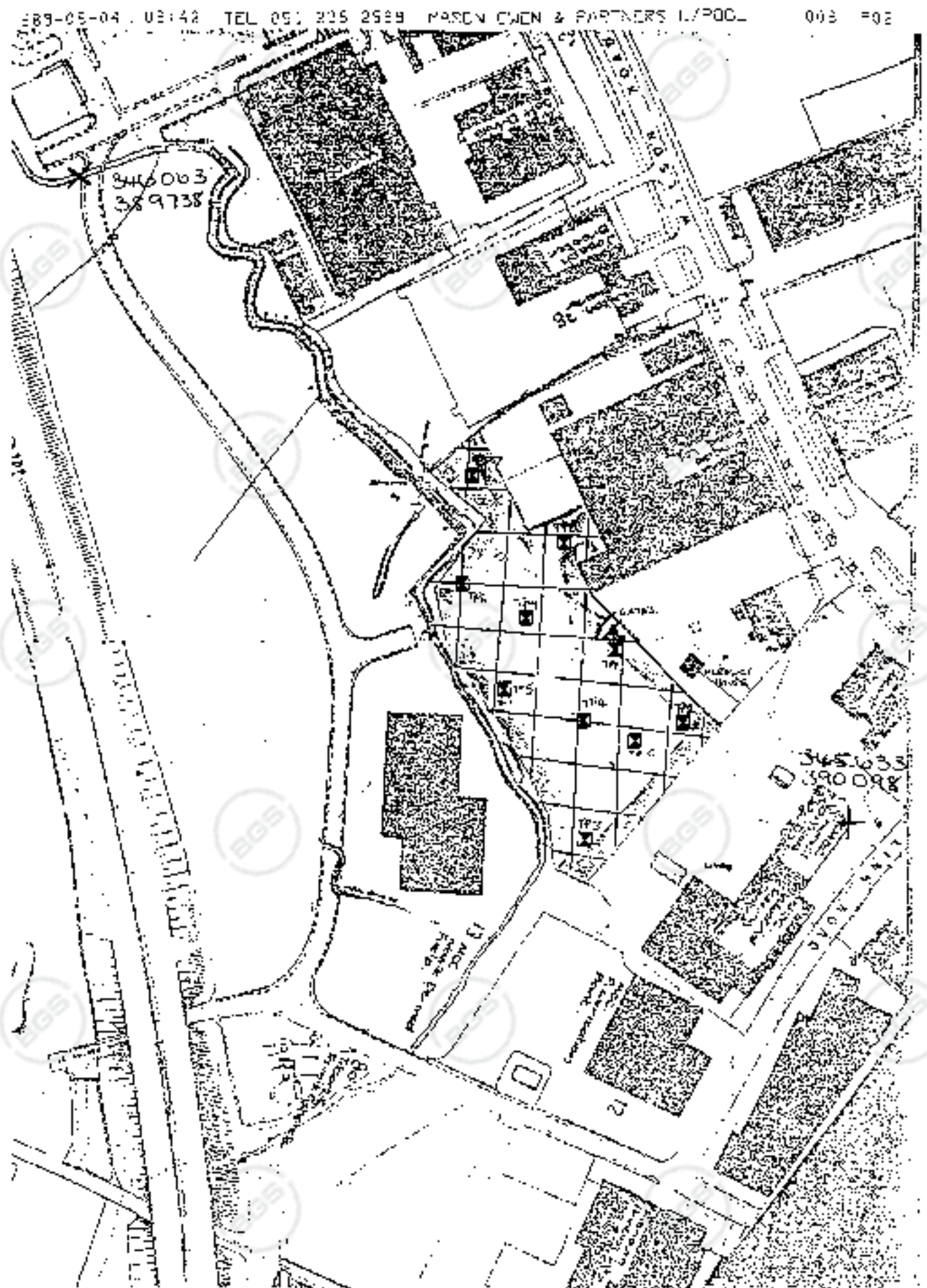


30m
345682 390297 Meters

APPENDIX II

BGS Archive Borehole Record Mining Remediation Authority Consultants Coal Mining Report

STRATA SURVEYS LTD., HOLMES CHAPEL ROAD, NIDOLENICH, CHESHIRE. CW10 0JB Telephone: 0606 84 4637 Fax: 0606 84 6657				Trial Pit No. : 3 Sheet No. 1 of 1. Depth. 0 to 4 metres. Date: 16 May 89			
Job Number : 4918 Client : Brian Moorehead		Location: Wilson Road, Huxton		Equipment and Methods Mechanical: Excavator		345780 390107	
Description of Strata	Ref. level	Legend	Thick. (m)	Depth (m)	Sample Depth	Sample No.	Remarks
MADE GROUND Grassed over dark brown clayey sandy gravelly fill with wood and brick fragments			0.00 1.40	0.00 1.40			
Fine grey becoming orange brown silty sandy CLAY with coarse medium fine gravel			10.50	1.40	2.19	10	
Fine to stiff red brown occasionally grey silty sandy CLAY with coarse medium fine gravel			10.80	1.80			
Stiff grey CLAY with coarse medium fine gravel of mudstone fragments slightly weathered mudstone End of Trial Pit			10.30	2.70 3.00	2.80	3 4	
Key Sp Pocket Penetrometer Sample Types U Undisturbed D Disturbed B Bulk Disturbed W Water In-Situ Tests V Vane Test PB Plate Bearing Test CBR In-Situ CBR Test				General Remarks No water encountered Sides of trial pit stable			
Sketch/Plan							





The Coal
Authority

Consultants Coal Mining Report

Huyton Hub
Ellis Ashton Street
Huyton
Knowsley
L36 6BJ

Date of enquiry:	6 January 2025
Date enquiry received:	6 January 2025
Issue date:	6 January 2025

Our reference:	51003471366001
Your reference:	24-787



Consultants

Coal Mining Report

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

Client name

ARC ENVIRONMENTAL LTD

Enquiry address

Huyton Hub
Ellis Ashton Street
Huyton
Knowsley
L36 6BJ

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	LONDON DELPH (BIN)	Coal	302G	100	East	11.3	South-West	180	1882
unnamed	ST. HELENS YARD	Coal	302T	147	East	11.3	South-West	90	1870
unnamed	HIGHER FLORIDA	Coal	3034	157	North-East	11.3	South	180	1871
unnamed	LOWER FLORIDA	Coal	303A	164	North-East	11.3	South-West	120	1862
unnamed	WIGAN FOUR FEET	Coal	303W	287	North-East	11.2	South	160	1898

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

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

NW836	13866	NW756
PO0	16820	NW835
NW803	2739	NW832

Our records show we have more plans than those shown above which could affect the enquiry boundary.

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

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

Please refer to the "Summary of findings" map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

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

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

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

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

Payments to owners of former copyhold land

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

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

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

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

Opencast mines

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

Coal Authority managed tips

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

Site investigations

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

Remediated sites

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

Coal mining subsidence

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

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

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

Mine gas

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

Mine water treatment schemes

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

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

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

Future underground mining

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

Coal mining licensing

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

Court orders

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

Section 46 notices

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

Withdrawal of support notices

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

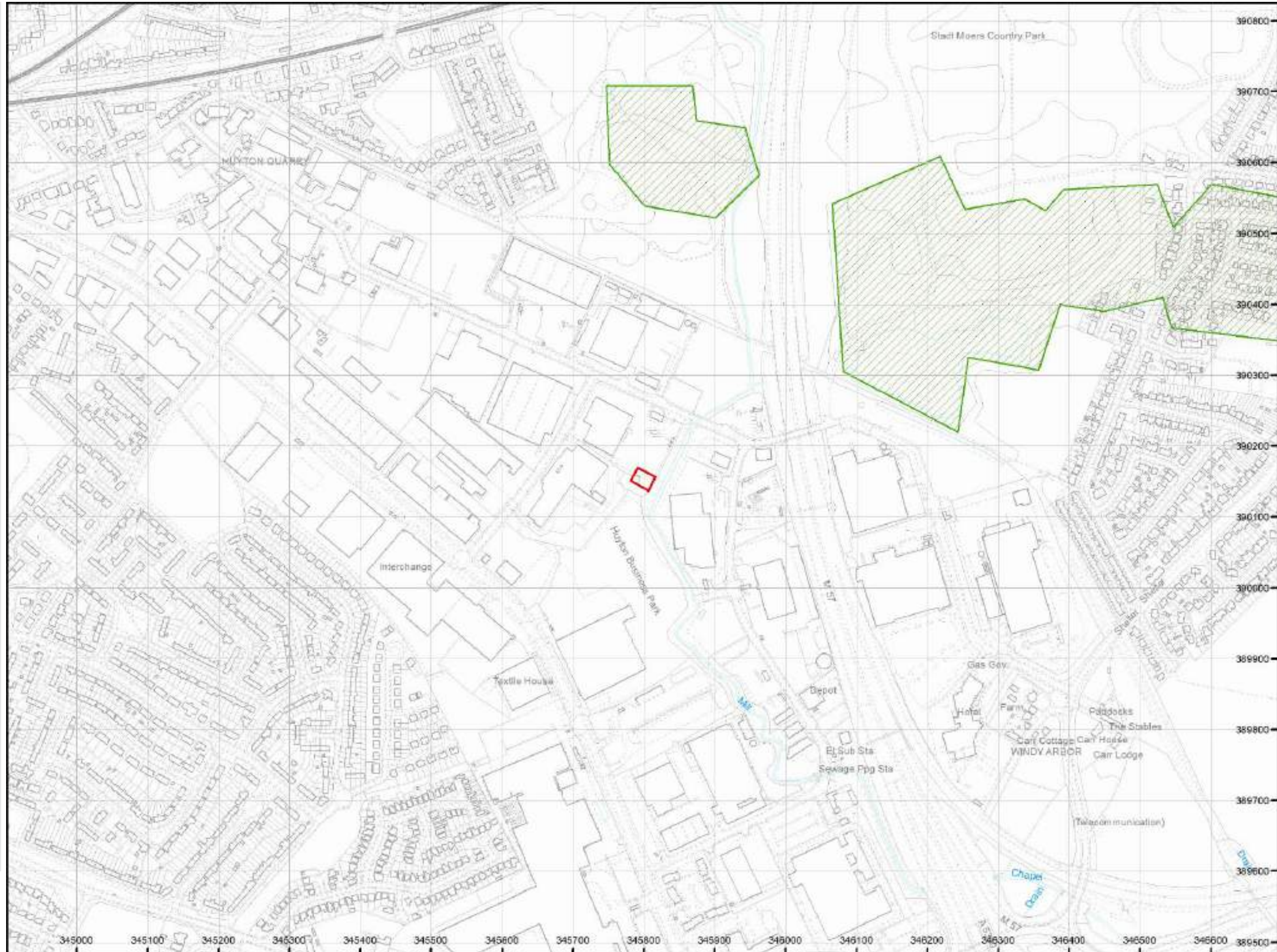
Payment to owners of former copyhold land

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

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

Key

- Approximate position of the enquiry boundary shown 
- Unlicensed opencast site 



How to contact us

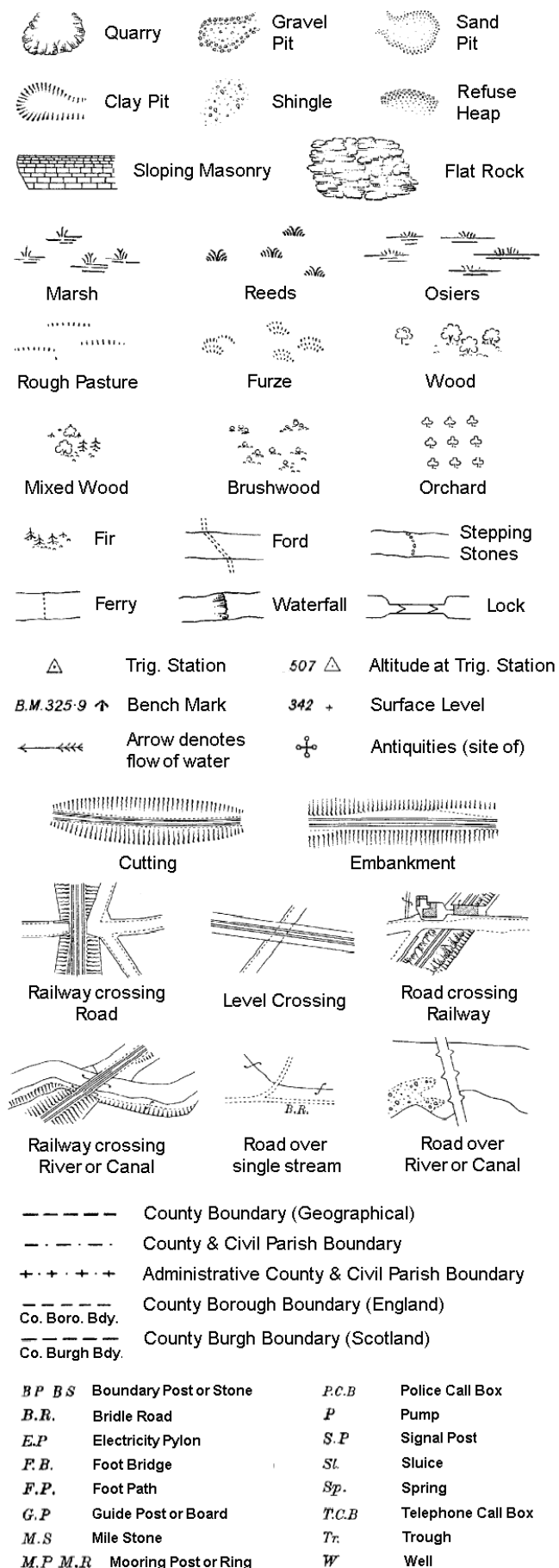
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

APPENDIX III

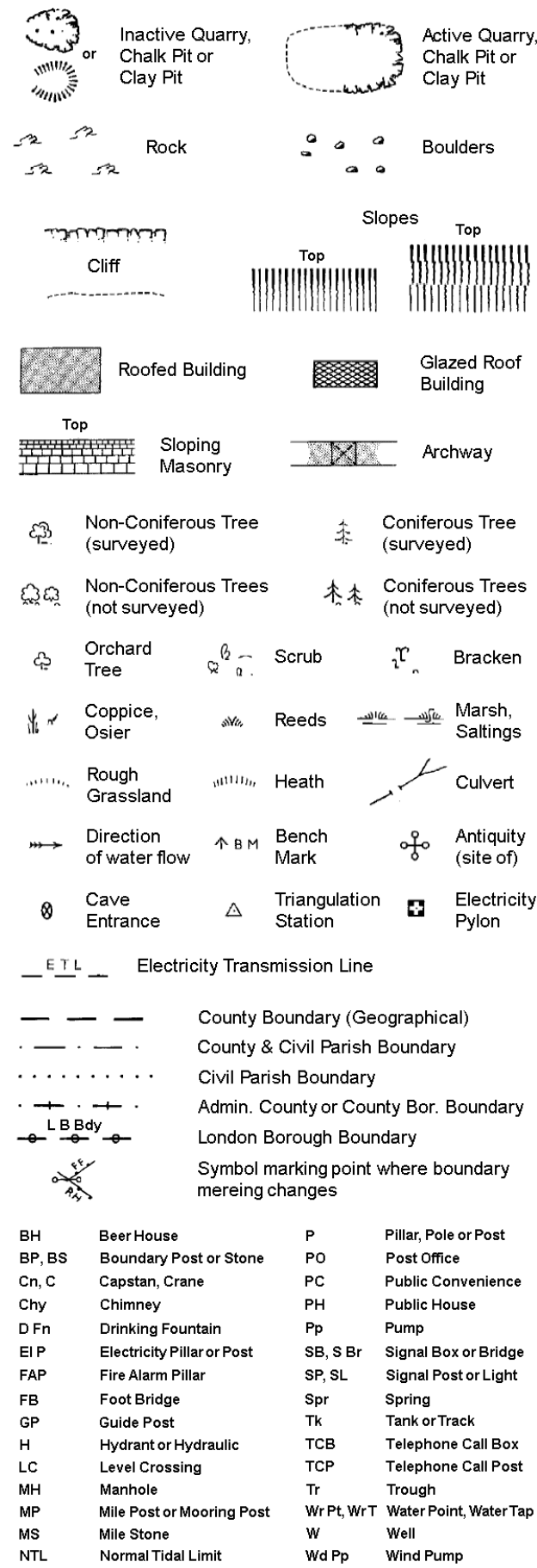
Landmark Information Group – Envirocheck Report Zetica Unexploded Bomb Risk Map

Historical Mapping Legends

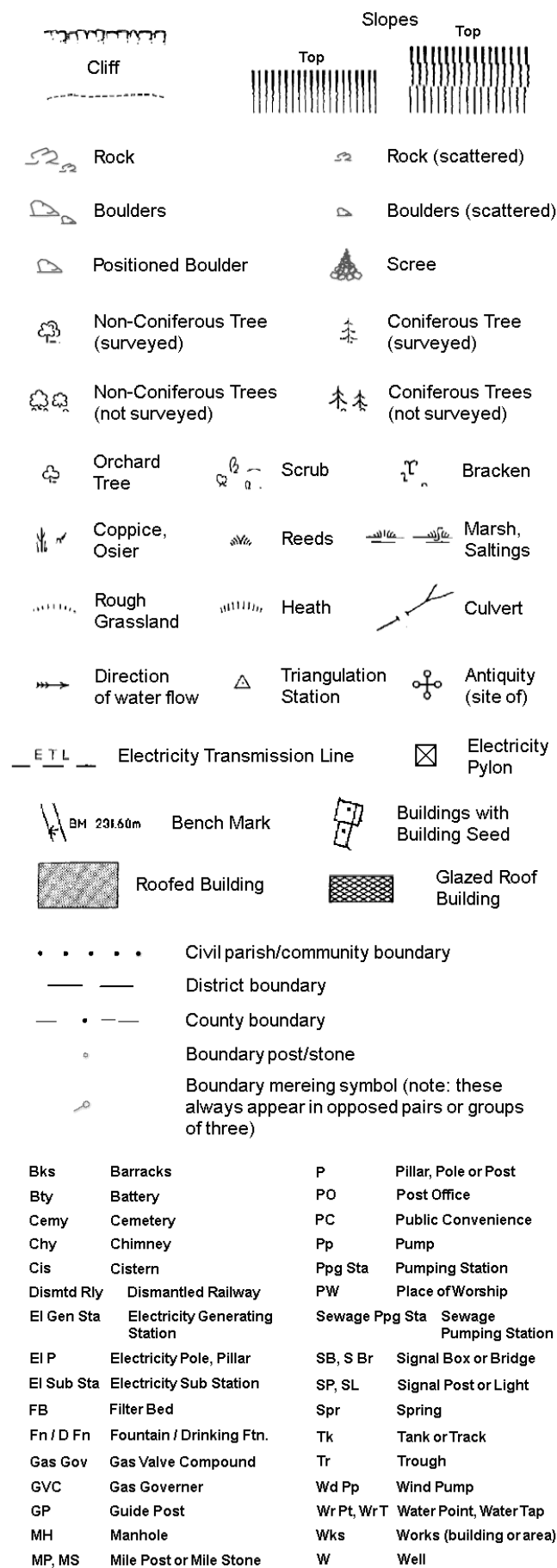
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



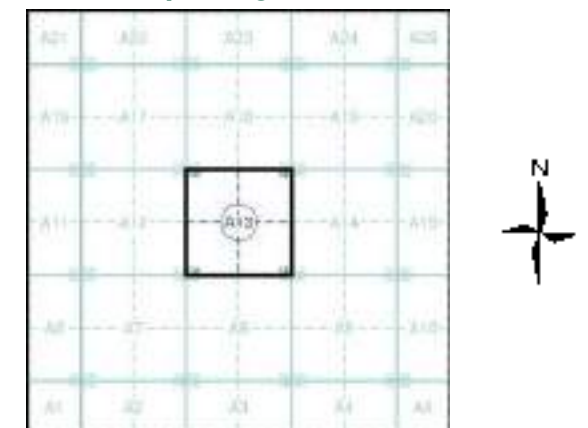
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1892	2
Lancashire And Furness	1:2,500	1907	3
Lancashire And Furness	1:2,500	1927	4
Lancashire And Furness	1:2,500	1937	5
Ordnance Survey Plan	1:1,250	1956 - 1973	6
Ordnance Survey Plan	1:2,500	1957 - 1959	7
Ordnance Survey Plan	1:1,250	1963 - 1982	8
Additional SIMs	1:1,250	1963 - 1984	9
Ordnance Survey Plan	1:2,500	1970	10
Supply of Unpublished Survey Information	1:2,500	1975	11
Supply of Unpublished Survey Information	1:2,500	1975	12
Ordnance Survey Plan	1:1,250	1977	13
Ordnance Survey Plan	1:2,500	1979	14
Additional SIMs	1:2,500	1979 - 1982	15
Additional SIMs	1:2,500	1984	16
Additional SIMs	1:1,250	1987 - 1992	17
Additional SIMs	1:2,500	1989	18
Additional SIMs	1:2,500	1992	19
Large-Scale National Grid Data	1:1,250	1993	20
Large-Scale National Grid Data	1:2,500	1993	21
Large-Scale National Grid Data	1:1,250	1993 - 1994	22
Large-Scale National Grid Data	1:1,250	1994	23
Large-Scale National Grid Data	1:1,250	1996	24
Historical Aerial Photography	1:2,500	2000	25

Historical Map - Segment A13



Order Details

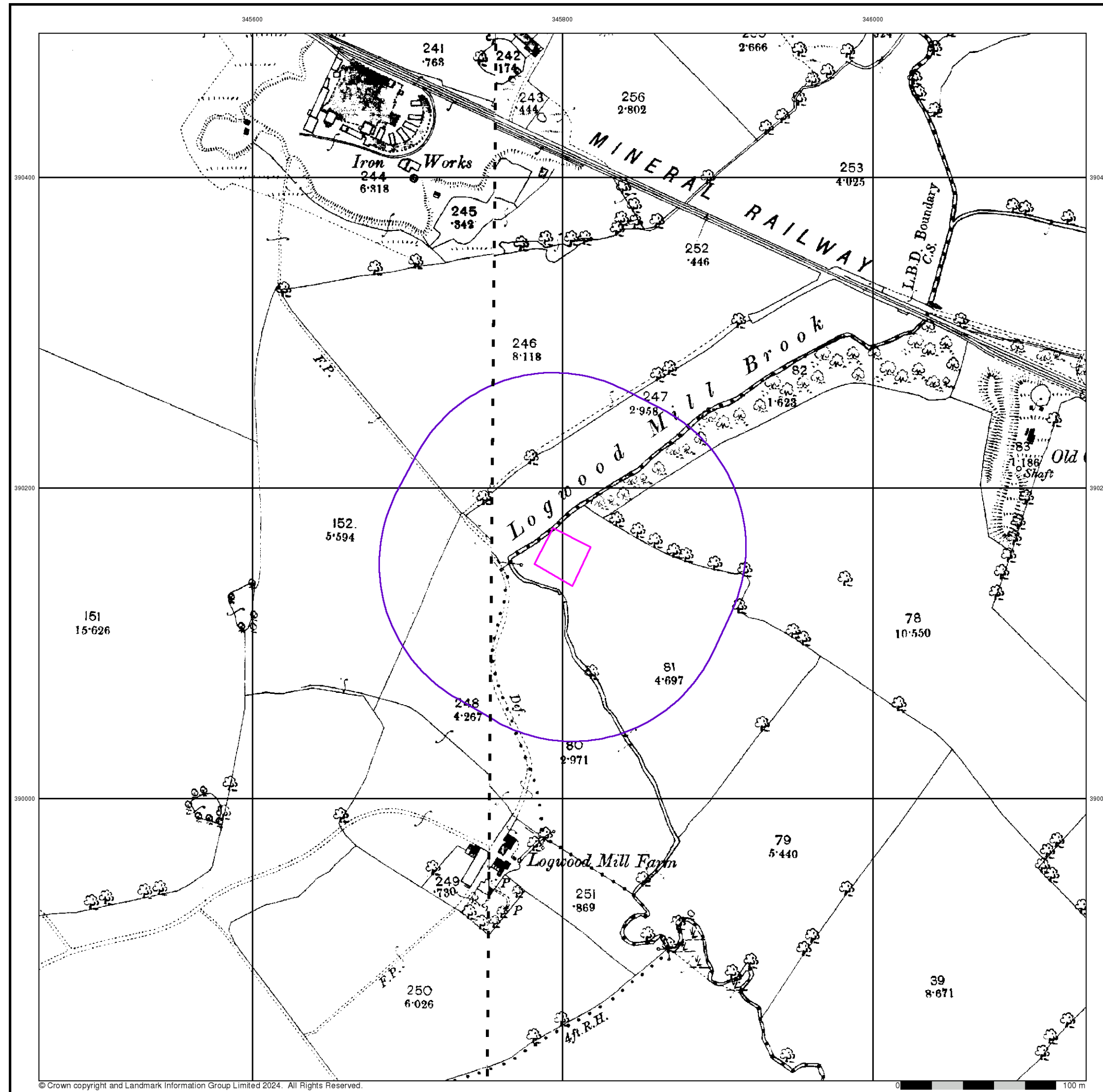
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National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

Site Details

Huyton Food Waste Project, Link Estate, Link Road,
LIVERPOOL, L36 6AP



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



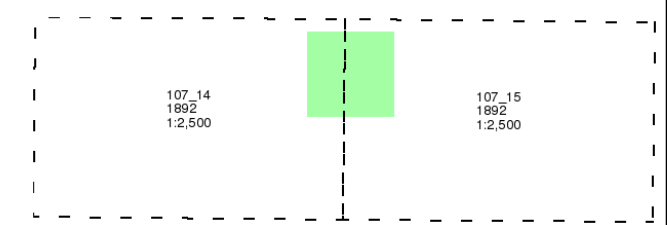
Lancashire And Furness

Published 1892

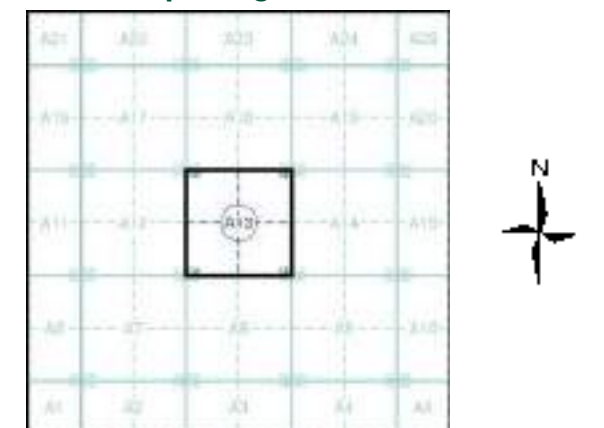
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

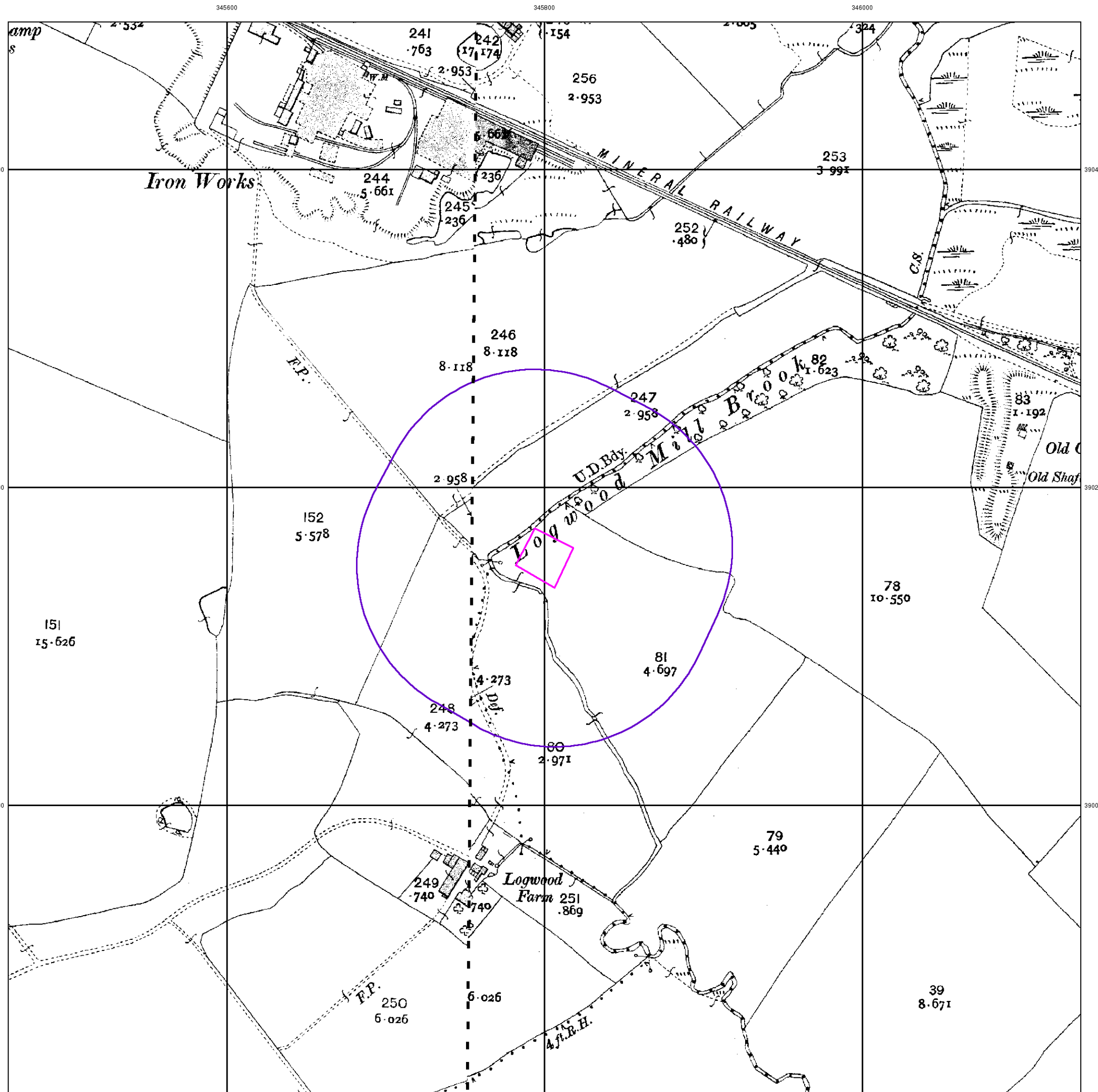
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Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

Site Details

Huyton Food Waste Project, Link Estate, Link Road, LIVERPOOL, L36 6AP



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



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0 100 m



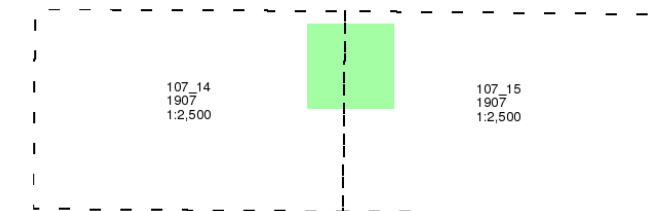
Lancashire And Furness

Published 1907

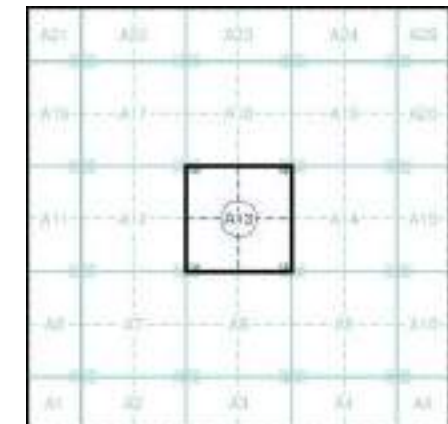
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

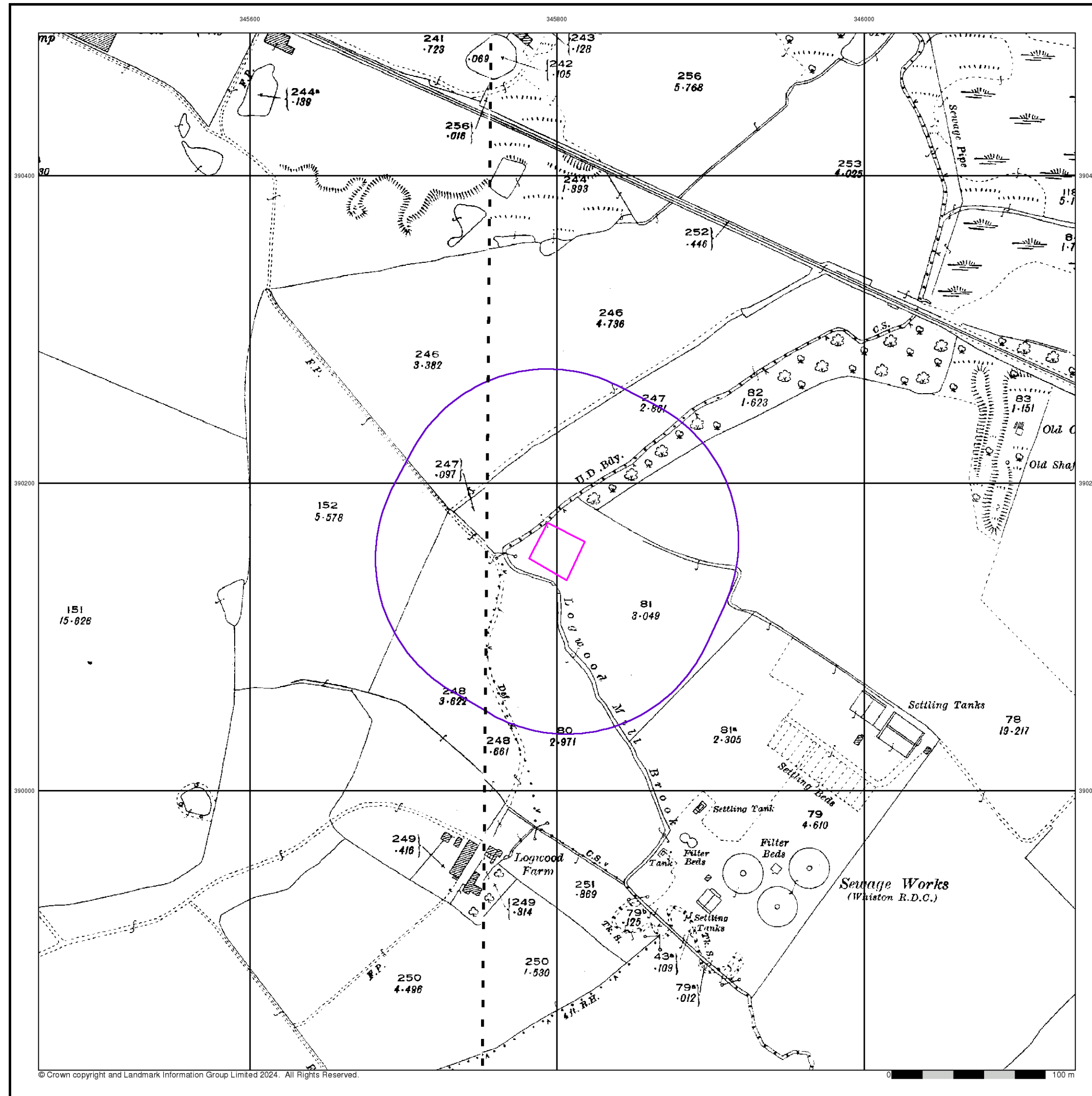
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Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

Site Details

Huyton Food Waste Project, Link Estate, Link Road,
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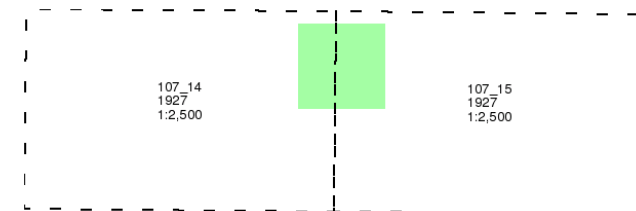
Lancashire And Furness

Published 1927

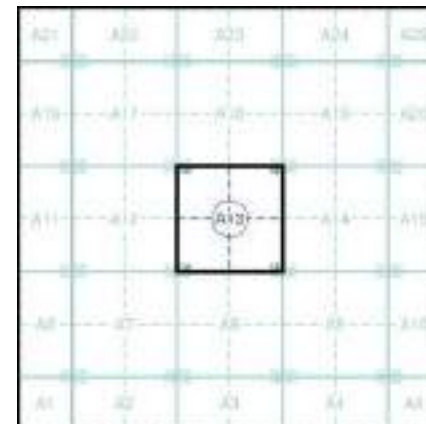
Source map scale - 1:2,500

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)



Historical Map - Segment A13



Order Details

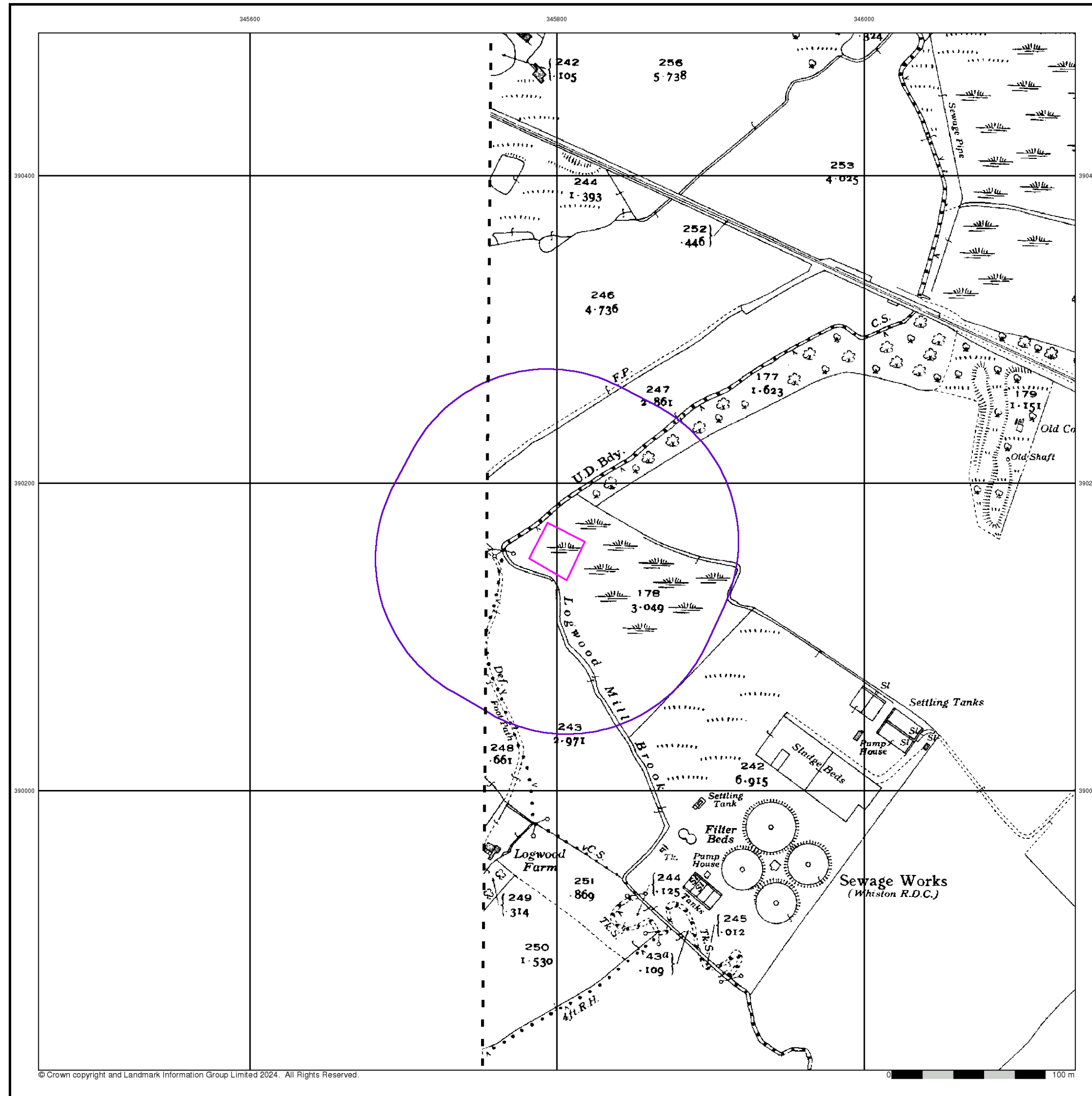
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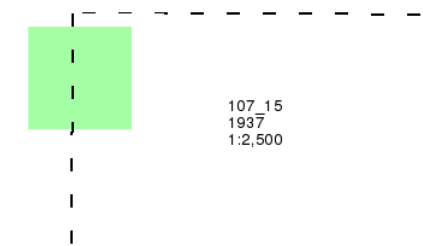
Lancashire And Furness

Published 1937

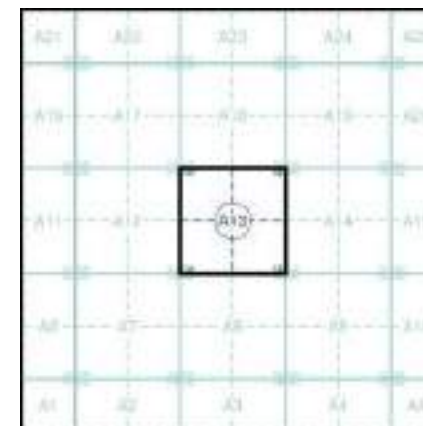
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

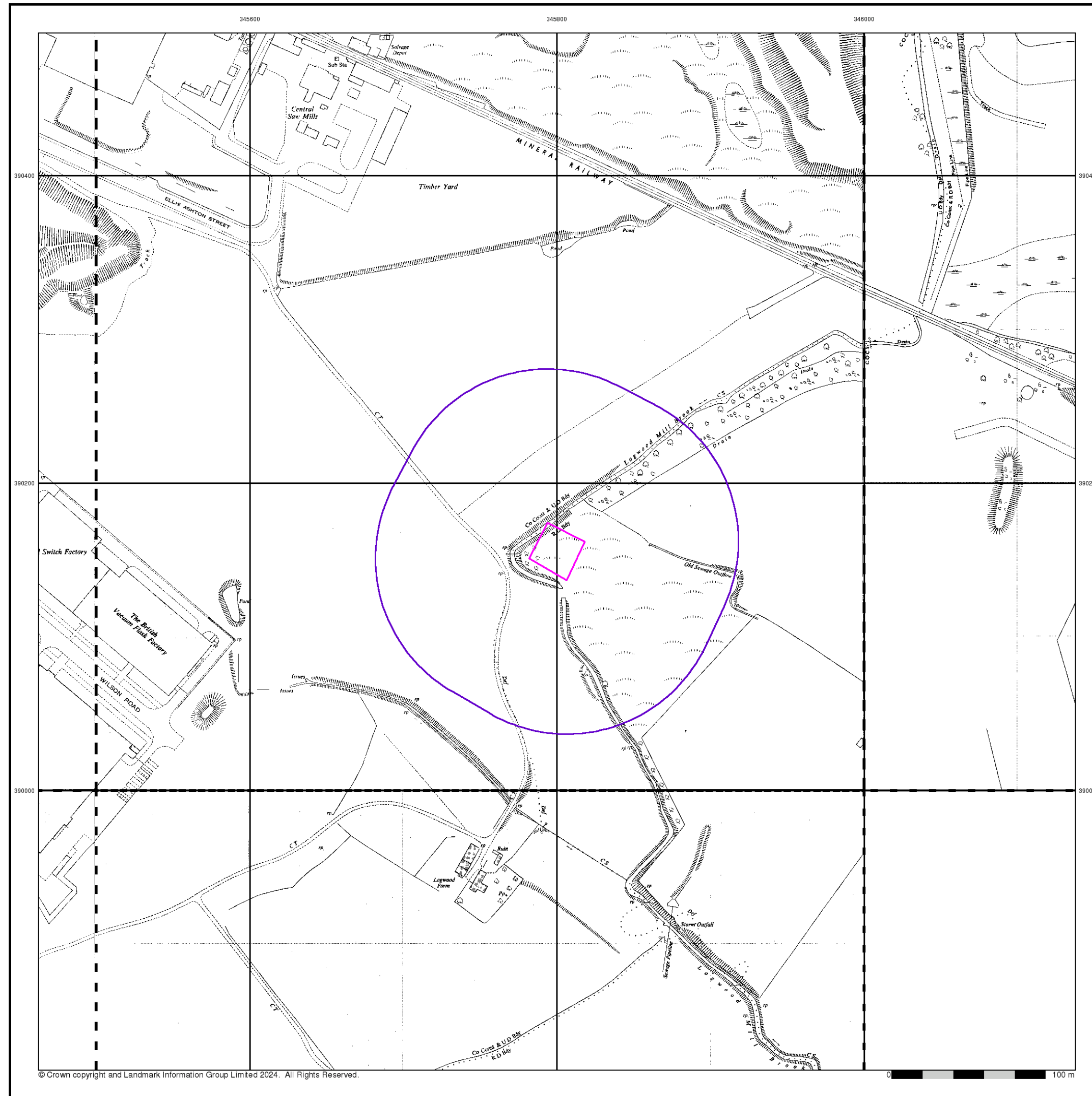
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Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1956 - 1973

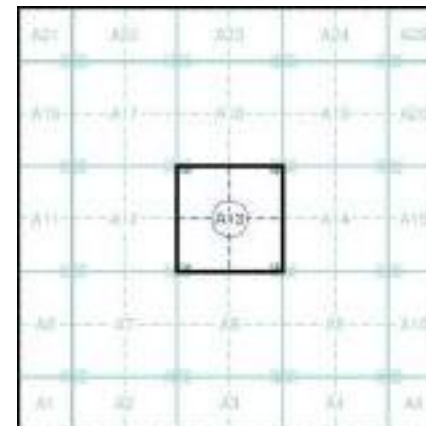
Source map scale - 1:1,250

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)

SJ4590SW	SJ4590SE	SJ4690SW
1957	1957	1973
1:1,250	1:1,250	1:1,250
SJ4589NW	SJ4589NE	
1956	1956	
1:1,250	1:1,250	

Historical Map - Segment A13



Order Details

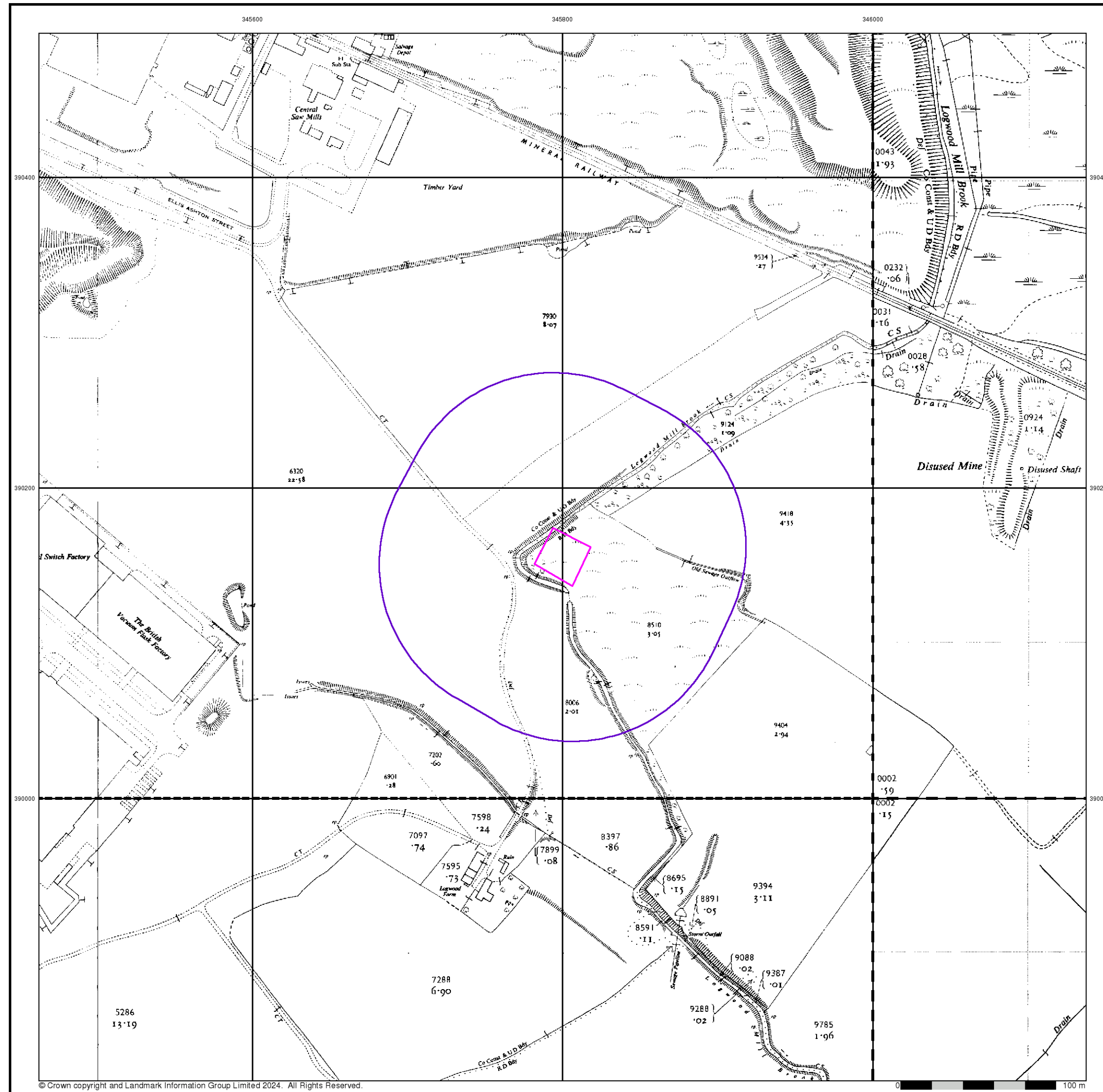
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Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1957 - 1959

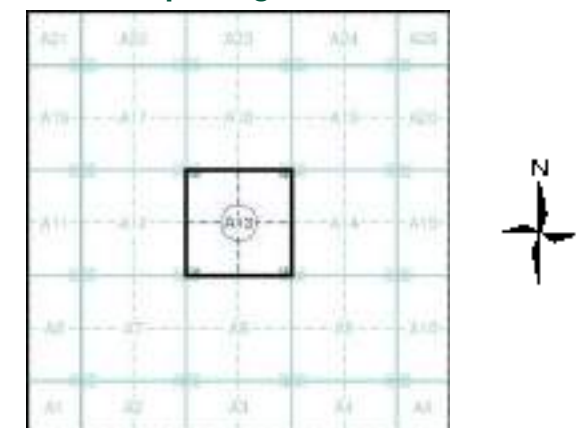
Source map scale - 1:2,500

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)

SJ4590	SJ4690
1957	1959
12,500	12,500
SJ4589	SJ4689
1957	1959
12,500	12,500

Historical Map - Segment A13



Order Details

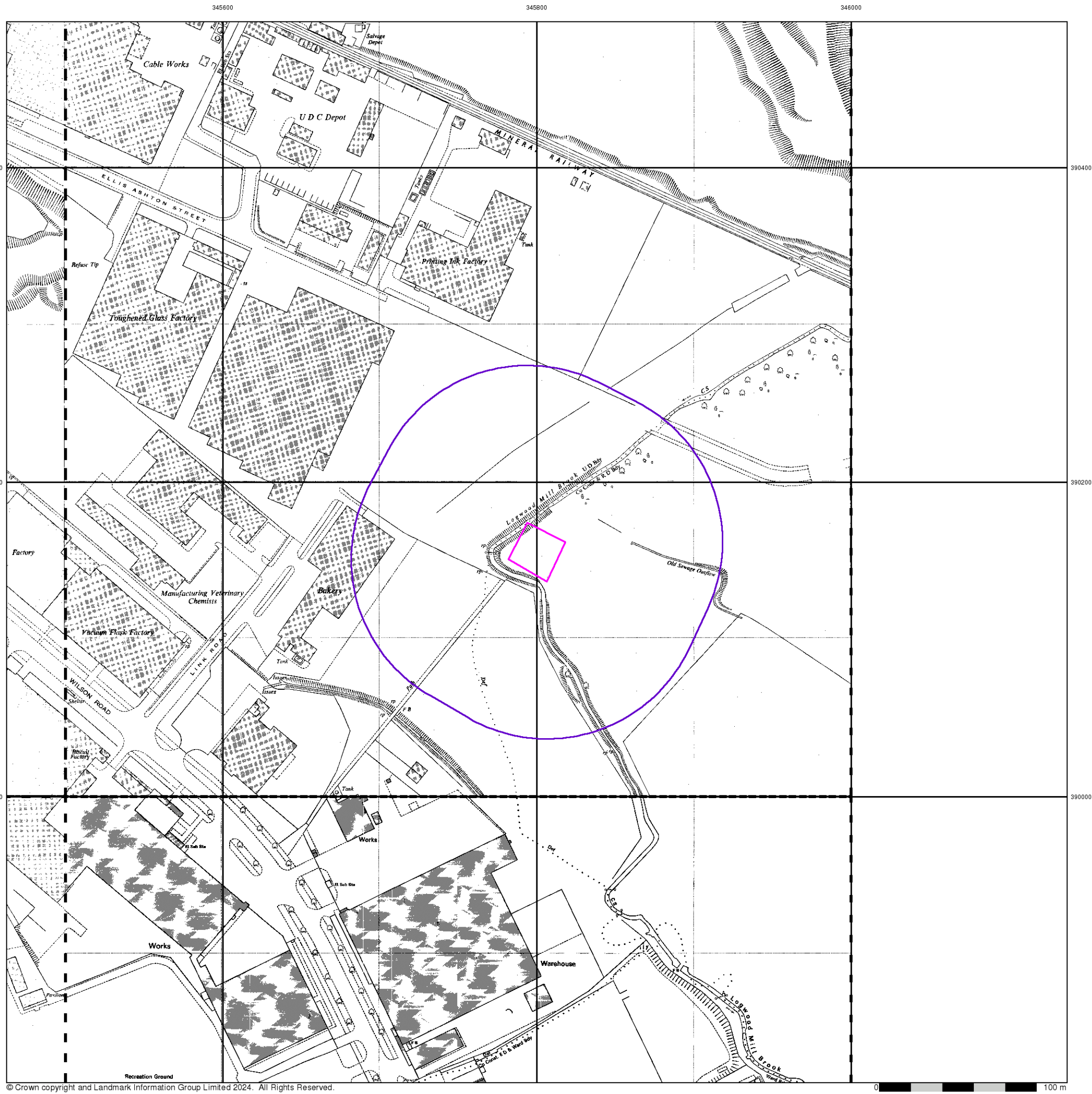
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Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
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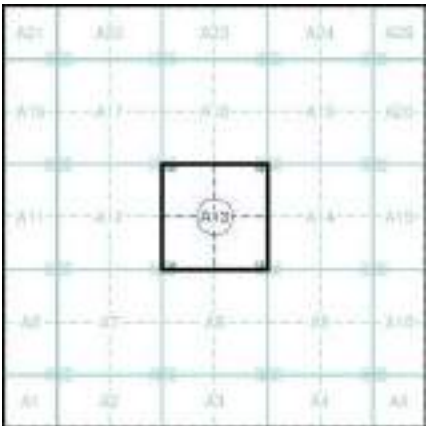
Ordnance Survey Plan
Published 1963 - 1982
Source map scale - 1:1,250

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)

SJ4590SW 1964 1:1,250	SJ4590SE 1968 1:1,250
SJ4589NW 1963 1:1,250	SJ4589NE 1982 1:1,250

Historical Map - Segment A13



Order Details

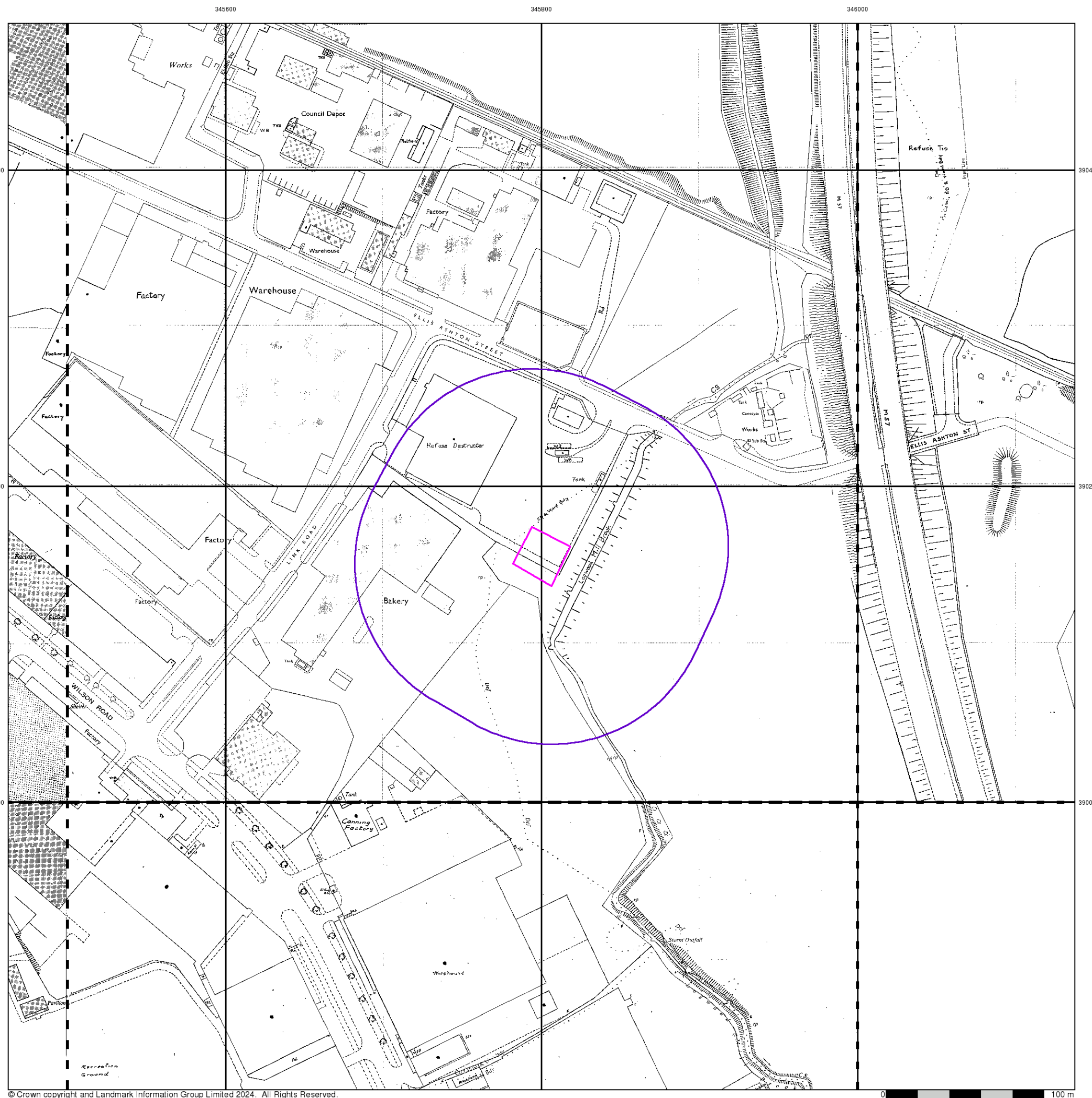
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Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

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Additional SIMs

Published 1963 - 1984

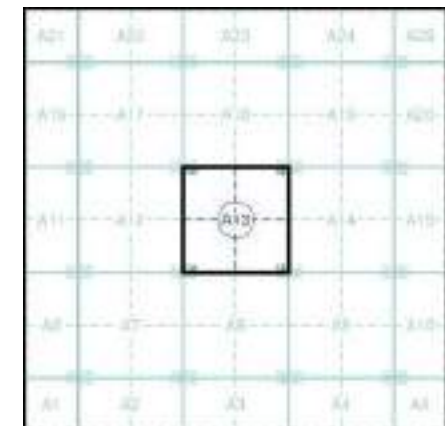
Source map scale - 1:1,250

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)

SJ4590SW 1980 1:1,250	SJ4590SE 1984 1:1,250	SJ4690SW 1981 1:1,250
SJ4589NW 1963 1:1,250	SJ4589NE 1977 1:1,250	

Historical Map - Segment A13



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

Site Details

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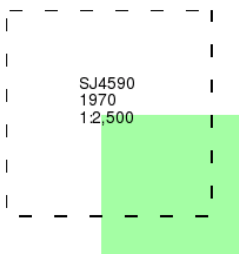
Ordnance Survey Plan

Published 1970

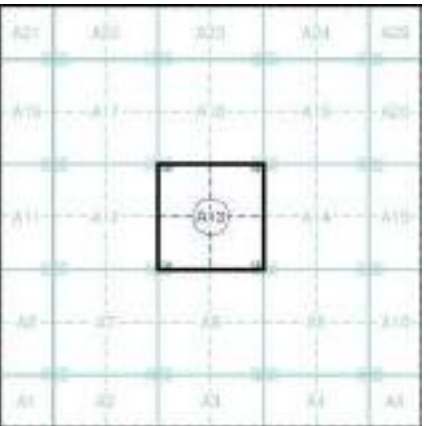
Source map scale - 1:2,500

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)



Historical Map - Segment A13



Order Details

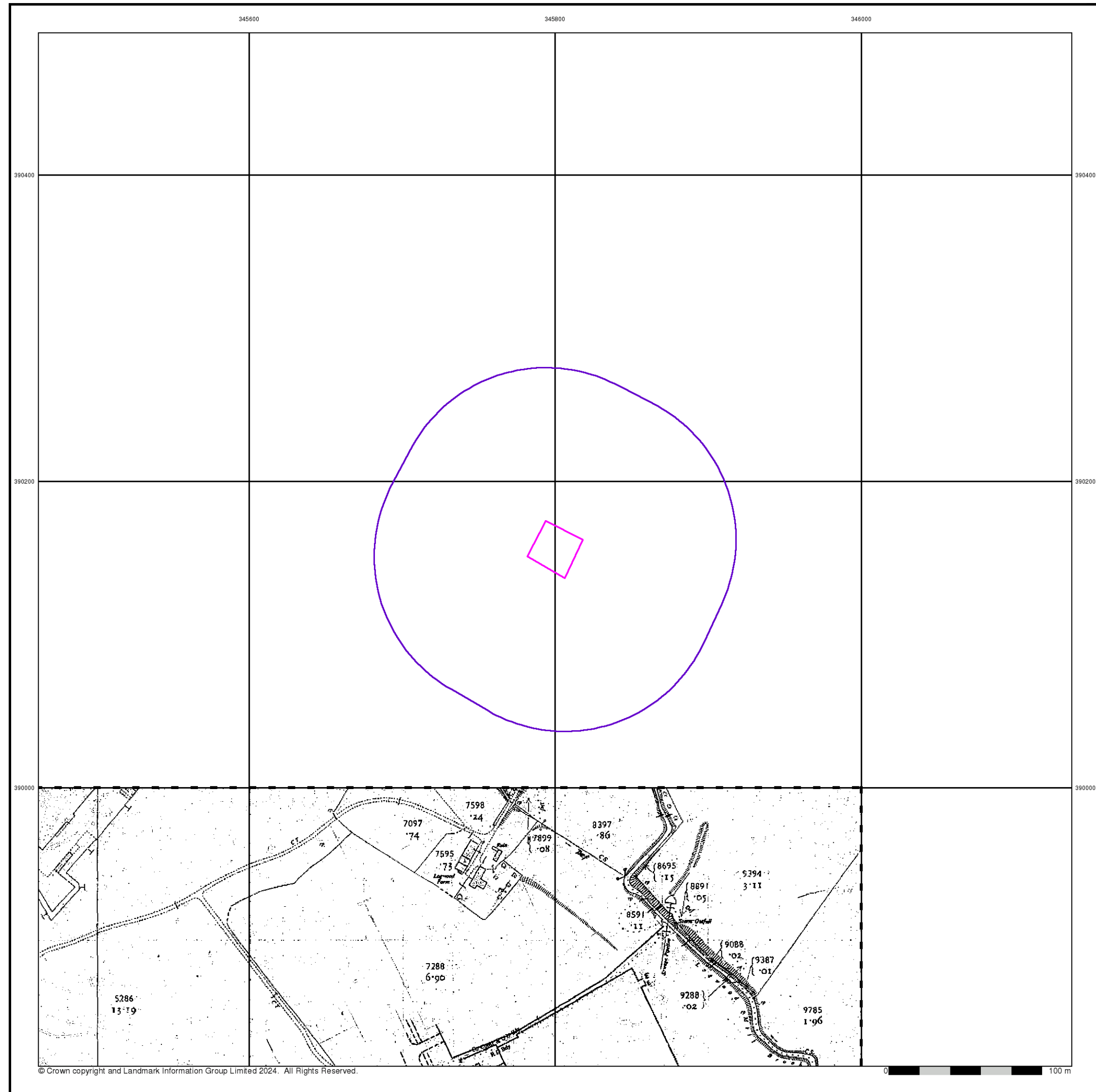
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Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
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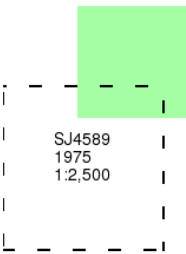
Supply of Unpublished Survey Information

Published 1975

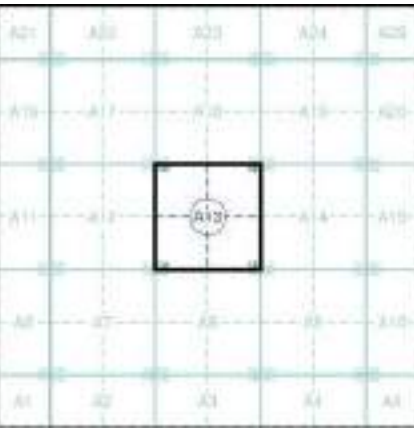
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

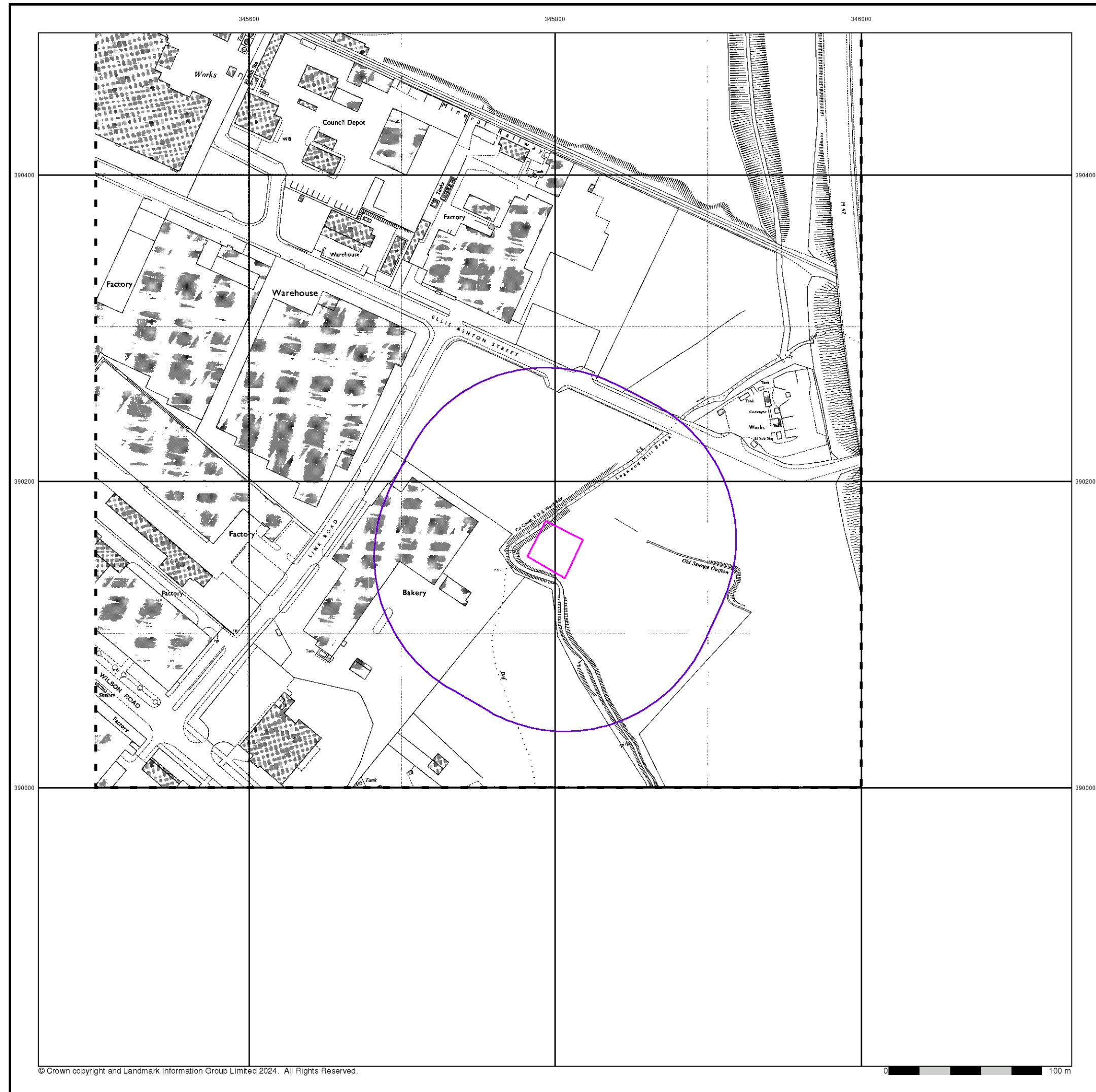
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Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

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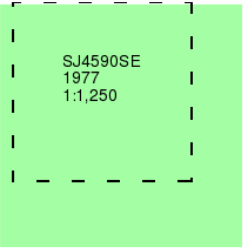
Ordnance Survey Plan

Published 1977

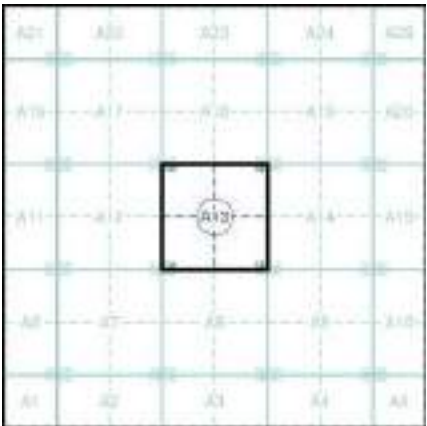
Source map scale - 1:1,250

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

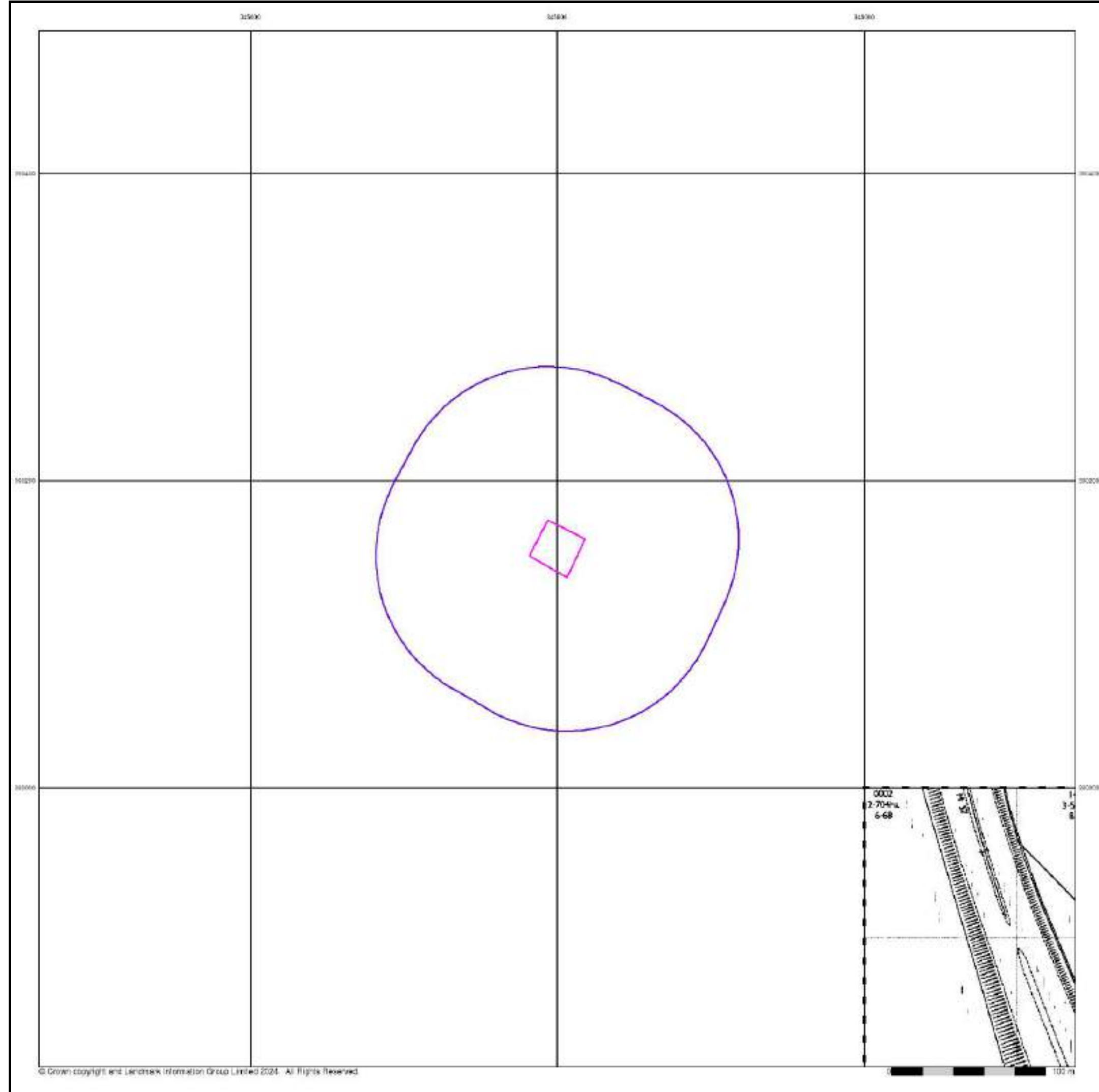
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Customer Ref: 24-787
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Site Area (Ha): 0.08
Search Buffer (m): 100

Site Details

Huyton Food Waste Project, Link Estate, Link Road,
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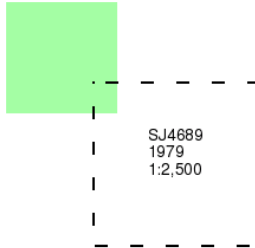
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Fax: 0844 844 9951
Web: www.envirocheck.co.uk



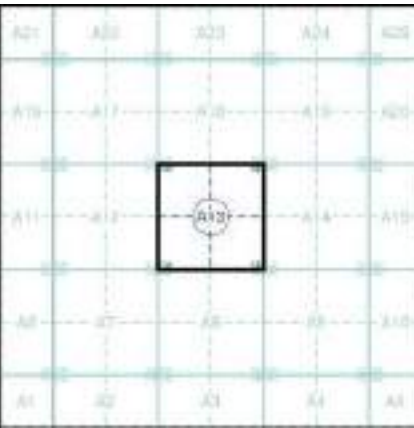
Ordnance Survey Plan
Published 1979
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

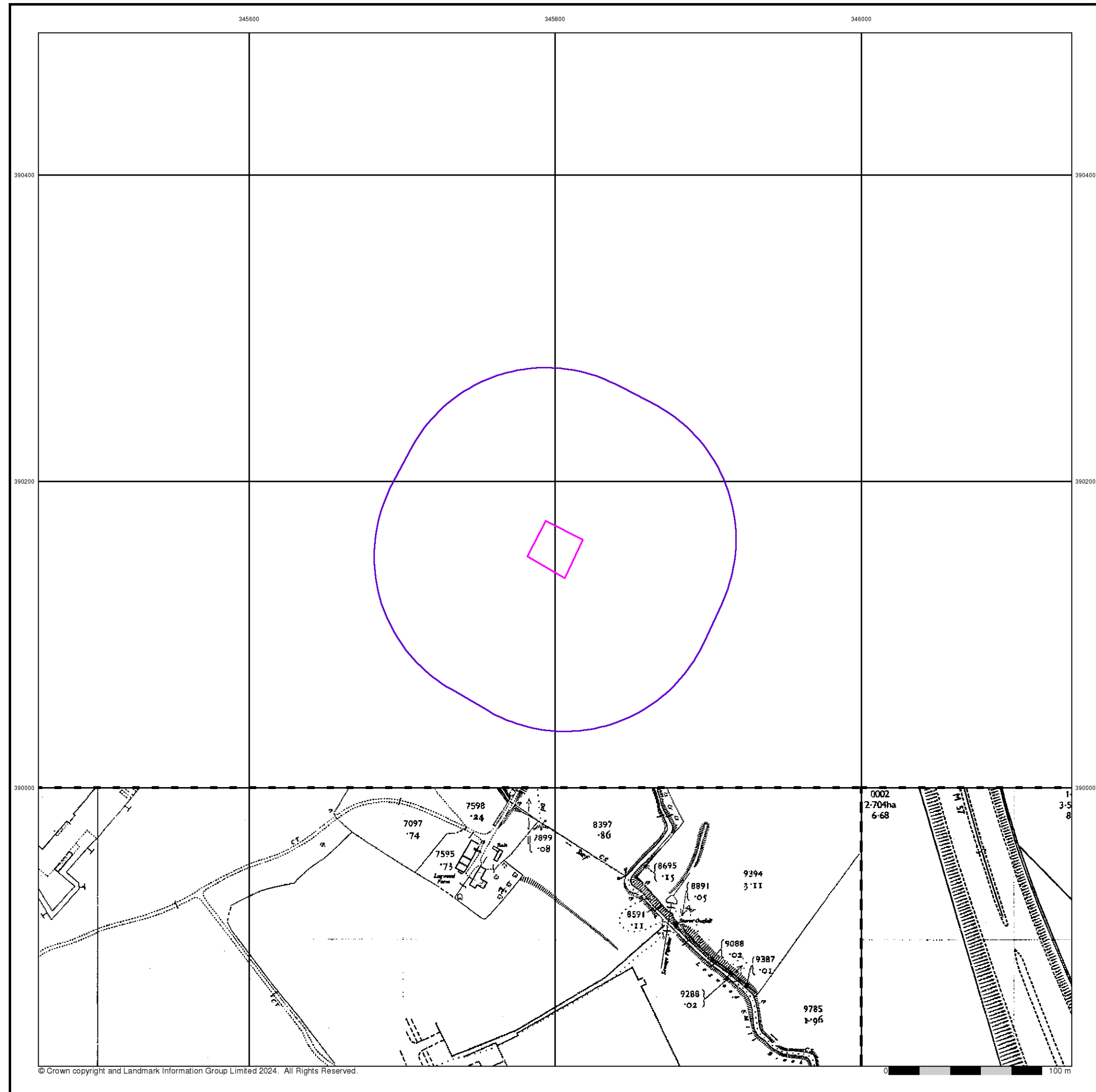


Order Details
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National Grid Reference: 345800, 390160
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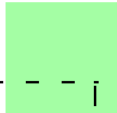
Additional SIMs

Published 1979 - 1982

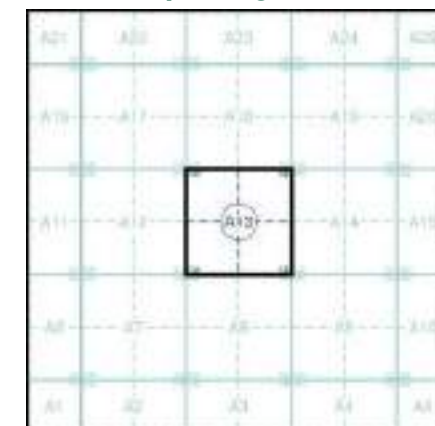
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

	
SJ4589 1982 1:2,500	SJ4689 1979 1:2,500

Historical Map - Segment A13



Order Details

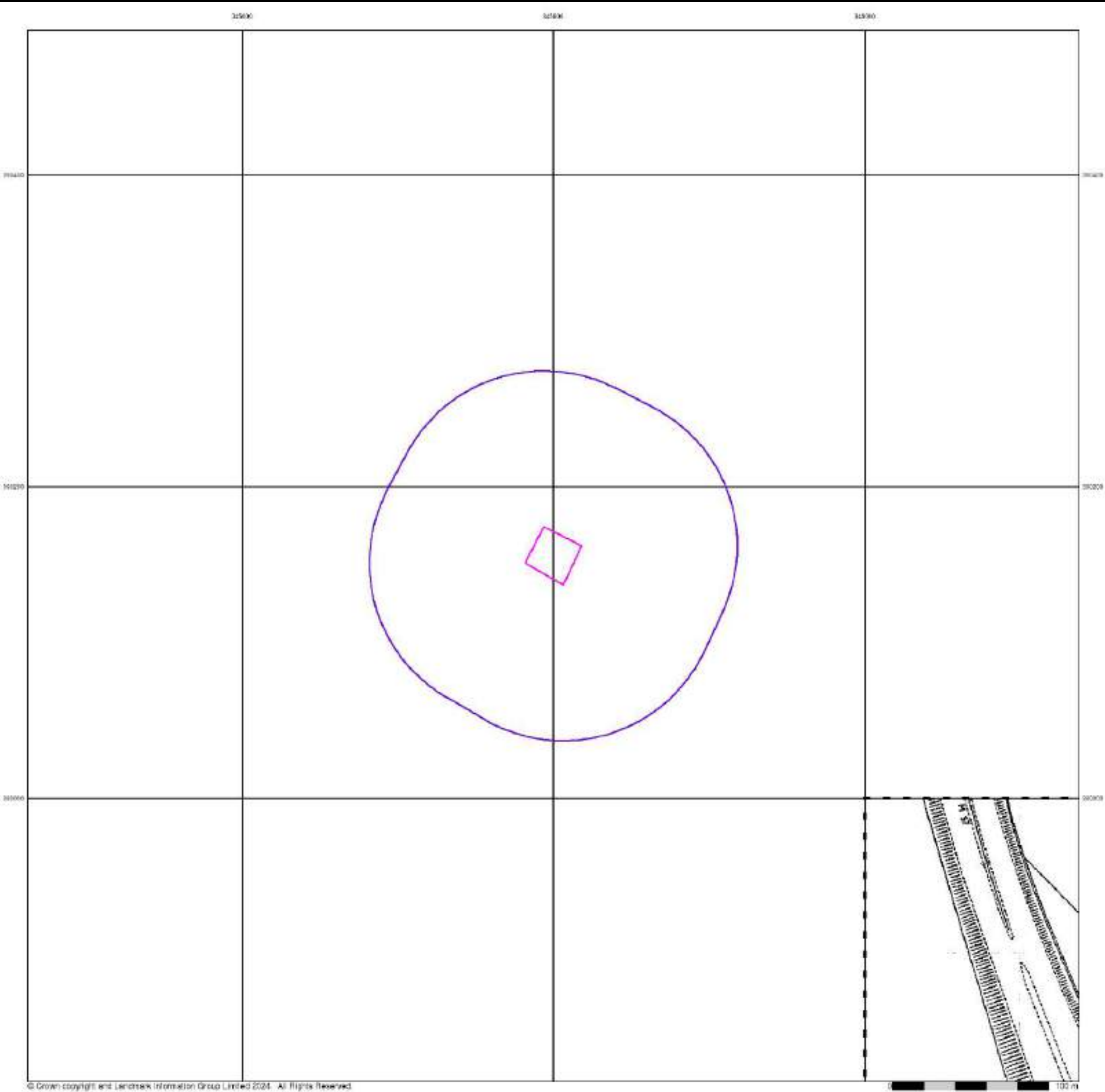
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Customer Ref: 24-787
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Slice: A
Site Area (Ha): 0.08
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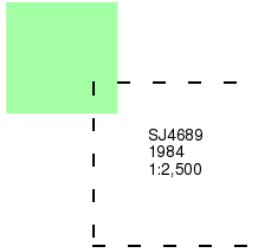
Additional SIMs

Published 1984

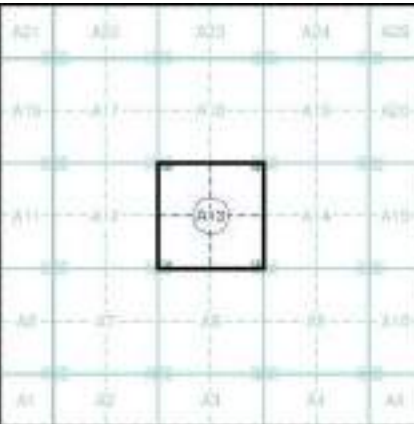
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

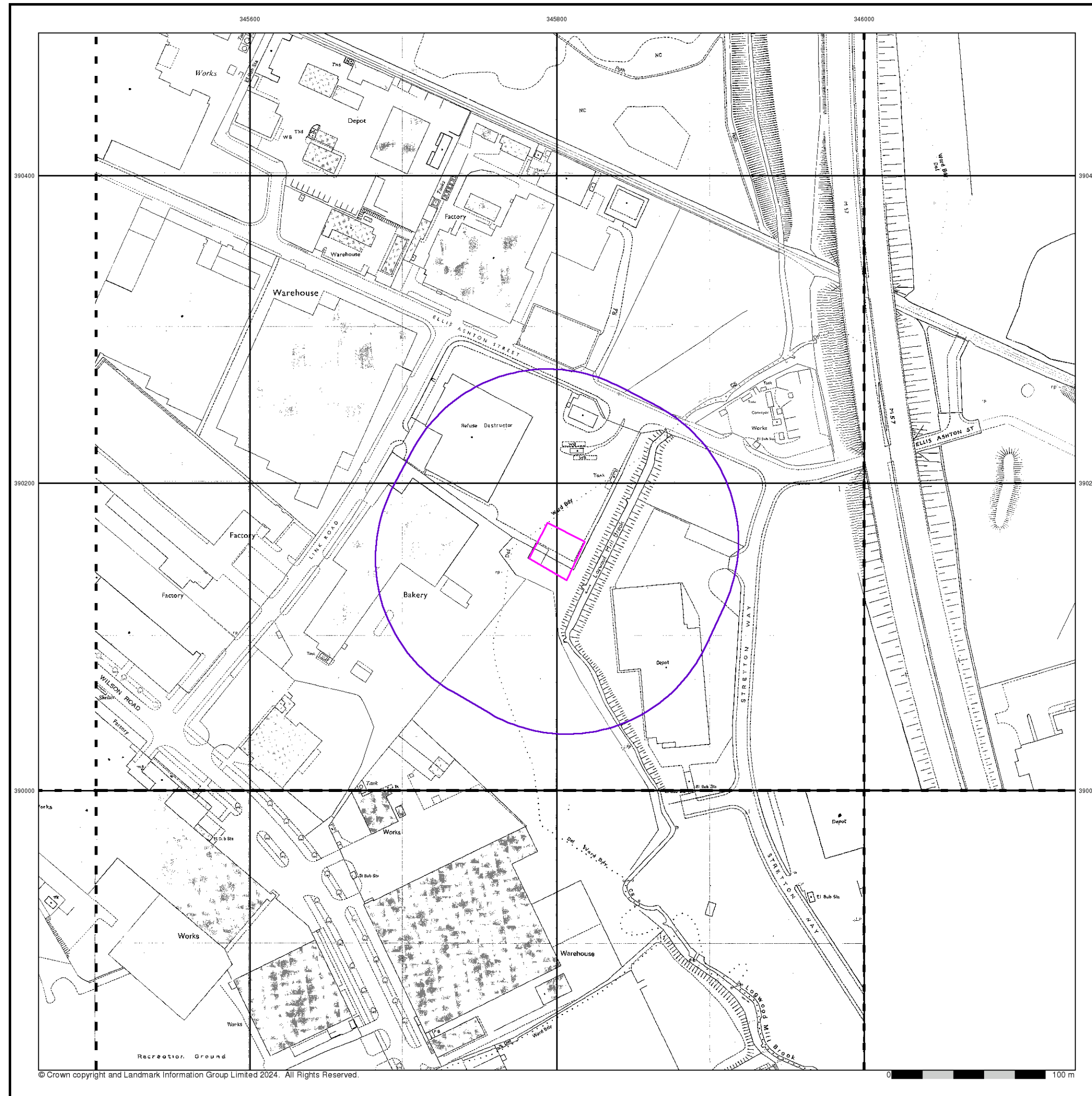
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Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

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Additional SIMs

Published 1987 - 1992

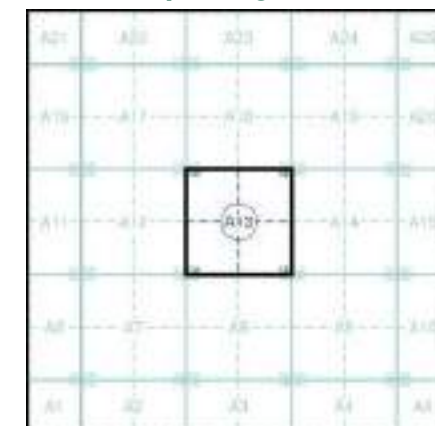
Source map scale - 1:1,250

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)

SJ4590SE	SJ4690SW
1987	1987
1:1,250	1:1,250
SJ4589NW	SJ4589NE
1989	1992
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

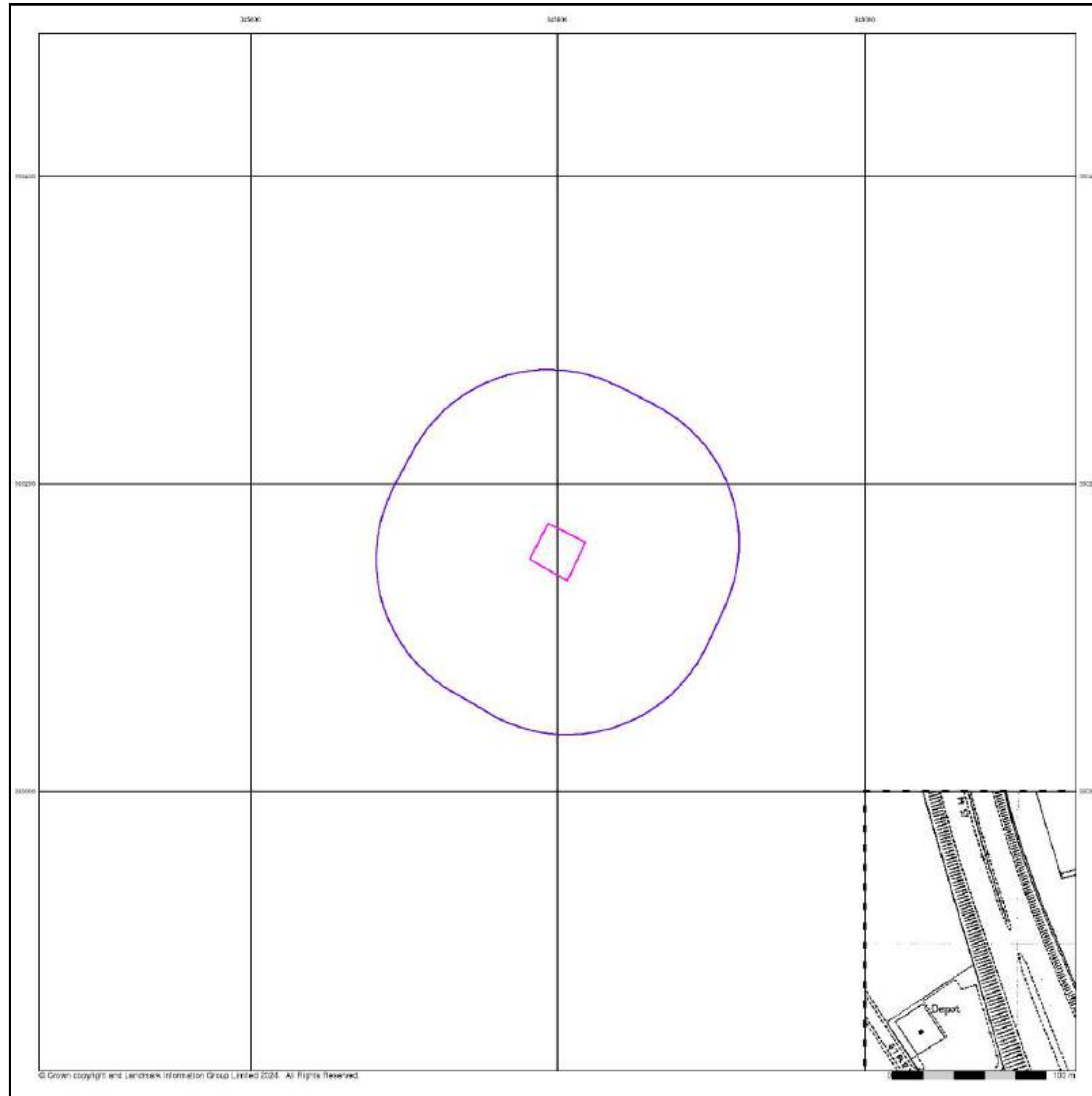
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Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

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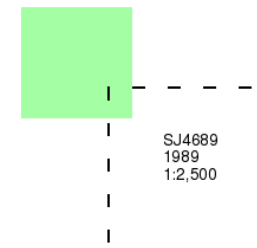
Additional SIMs

Published 1989

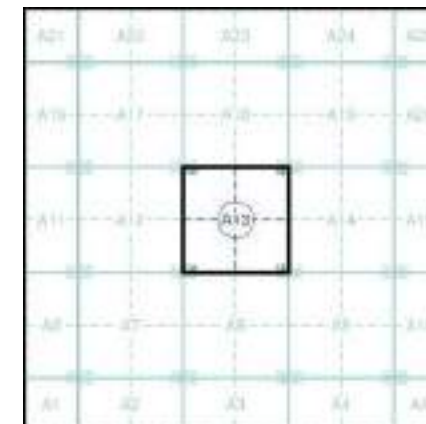
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

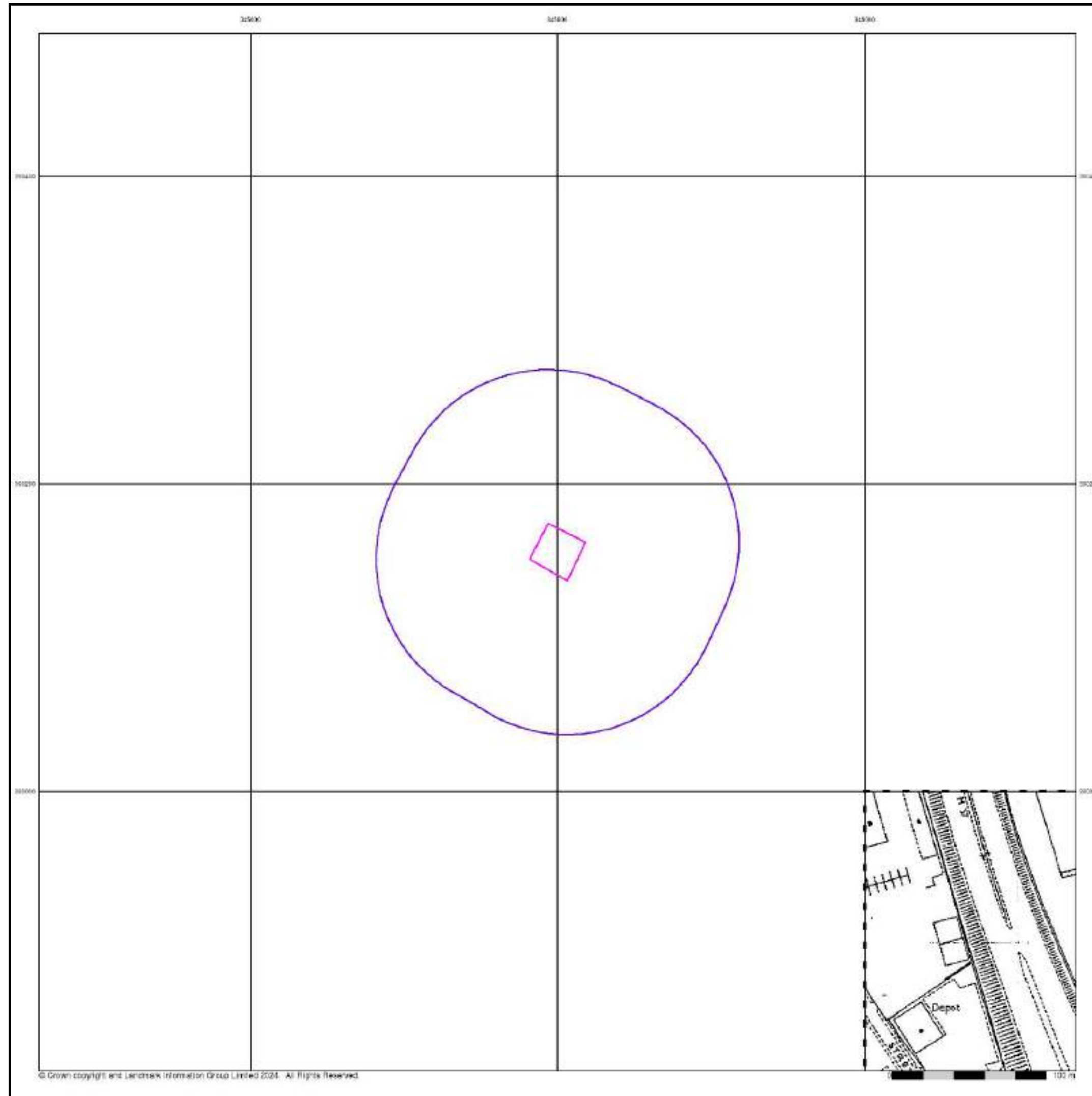
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National Grid Reference: 345800, 390160
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Site Area (Ha): 0.08
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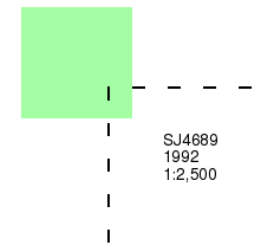
Additional SIMs

Published 1992

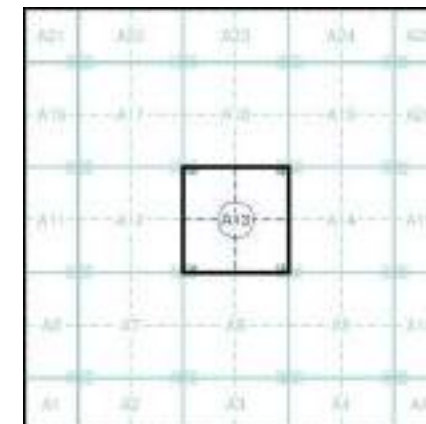
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

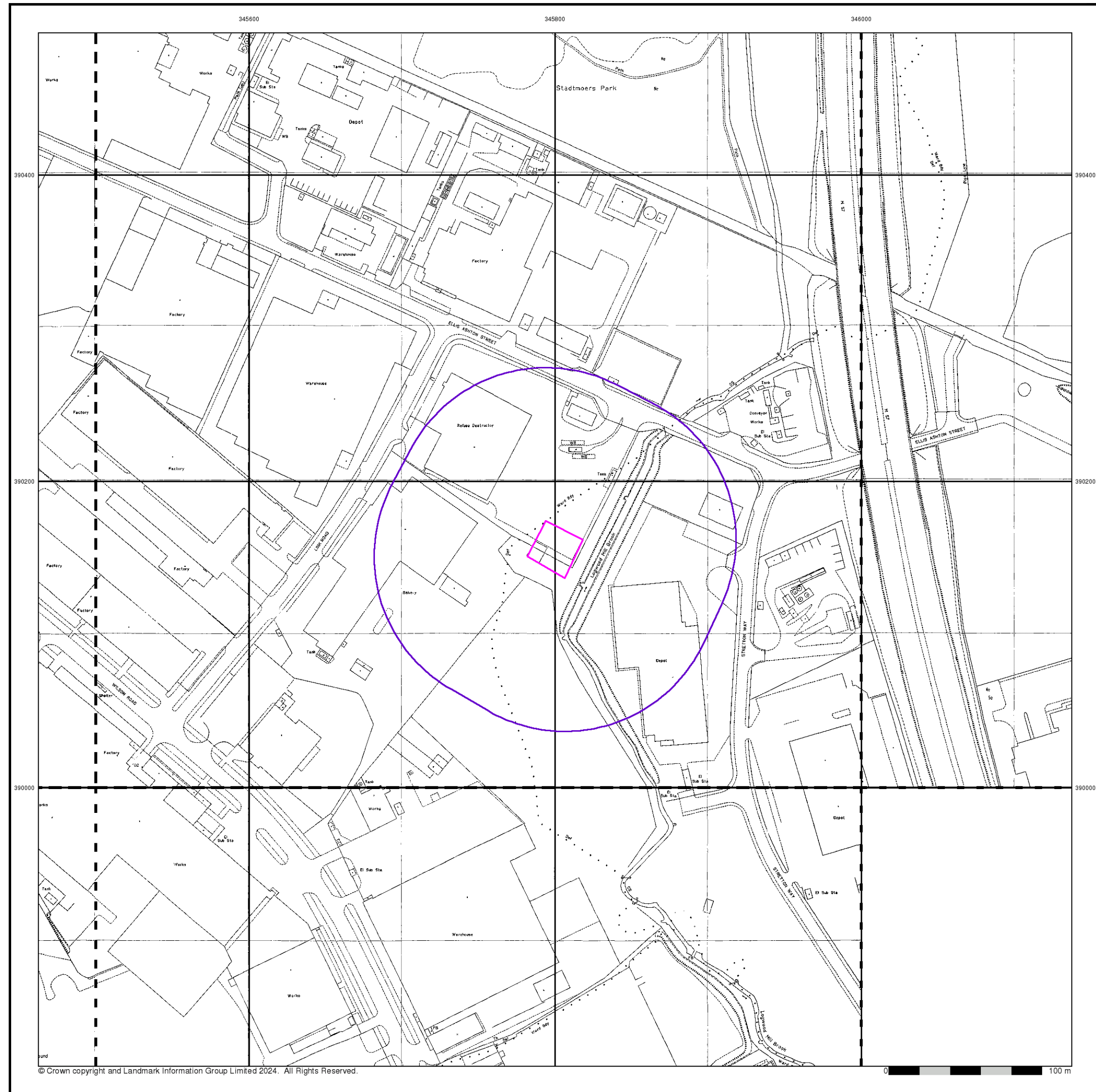
Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1993

Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ4590SW	SJ4590SE	SJ4690SW
1993	1993	1993
1:1,250	1:1,250	1:1,250
SJ4589NW	SJ4589NE	
1993	1993	
1:1,250	1:1,250	

Historical Map - Segment A13



Order Details

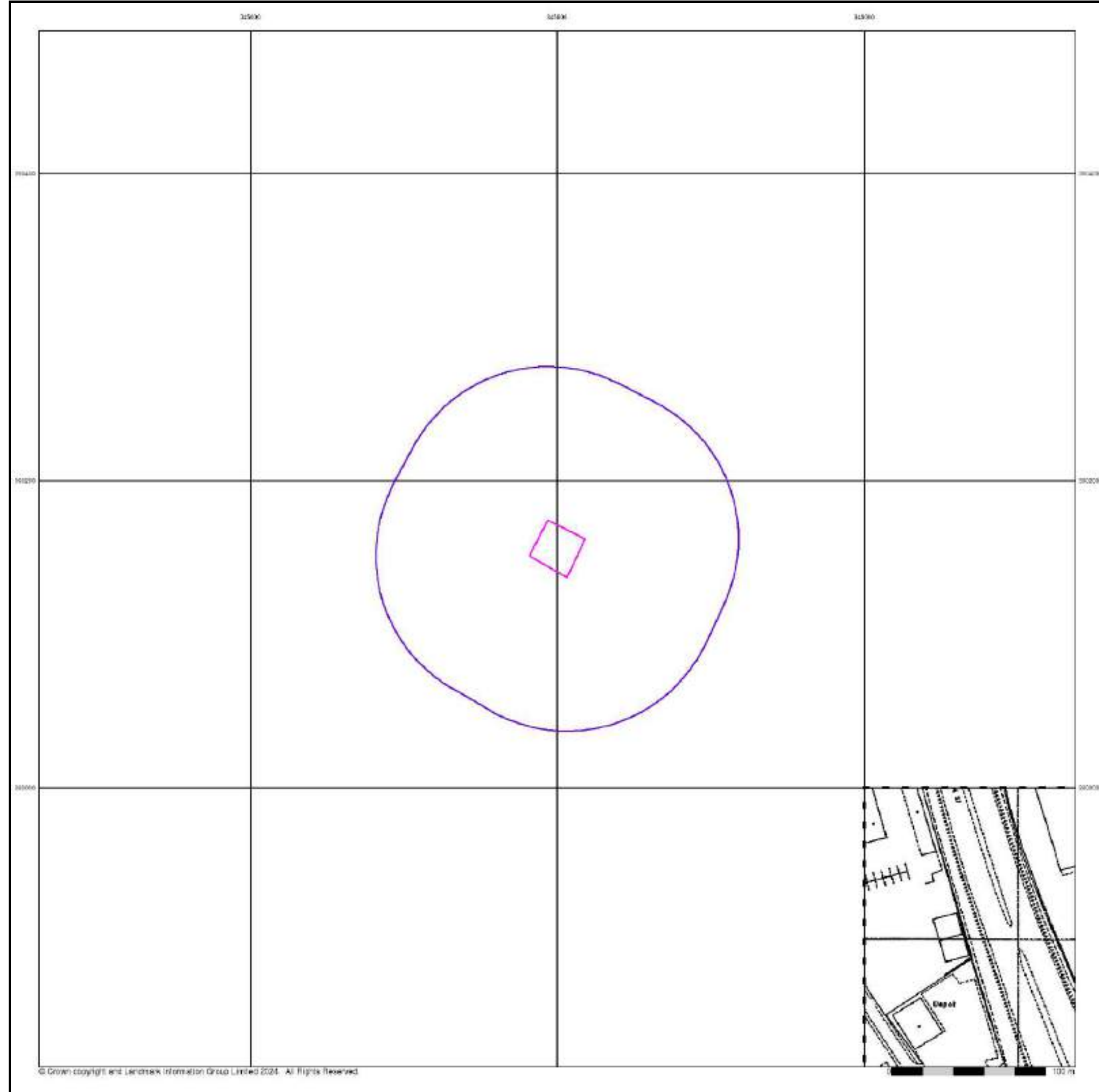
Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

Site Details

Huyton Food Waste Project, Link Estate, Link Road,
LIVERPOOL, L36 6AP



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





Large-Scale National Grid Data

Published 1993

Source map scale - 1:2,500

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

Map Name(s) and Date(s)

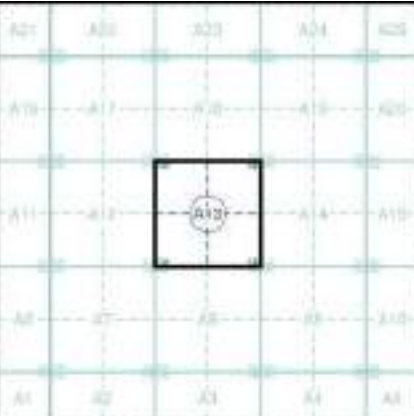


SJ4689

1993

1:2,500

Historical Map - Segment A13



Order Details

Order Number:	365702973_1_1
Customer Ref:	24-787
National Grid Reference:	345800, 390160
Slice:	A
Site Area (Ha):	0.08
Search Buffer (m):	100

Site Details

Huyton Food Waste Project, Link Estate, Link Road,
LIVERPOOL, L36 6AP



Tel:

0844 844 9952

Fax:

0844 844 9951

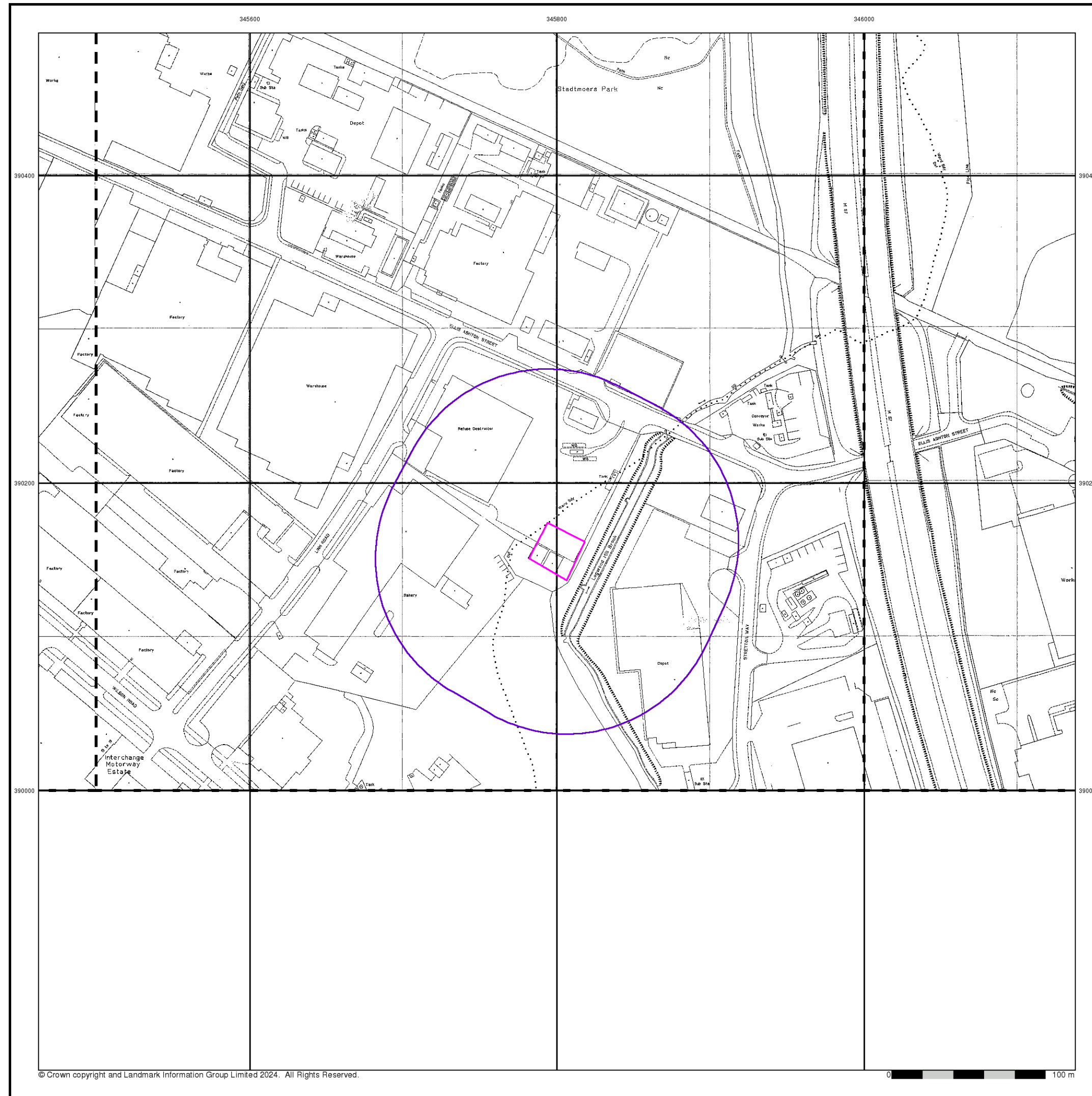
Web:

www.envirocheck.co.uk

A Landmark Information Group Service v50.0

16-Dec-2024

Page 21 of 25



Large-Scale National Grid Data

Published 1993 - 1994

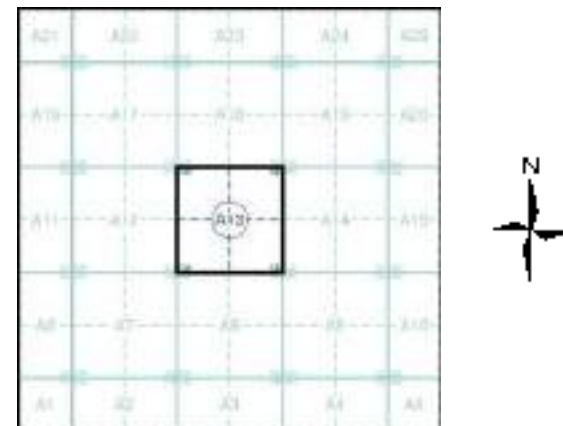
Source map scale - 1:1,250

'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)

SJ4590SW 1993 1:1,250	SJ4590SE 1994 1:1,250	SJ4690SW 1994 1:1,250
-----------------------------	-----------------------------	-----------------------------

Historical Map - Segment A13



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
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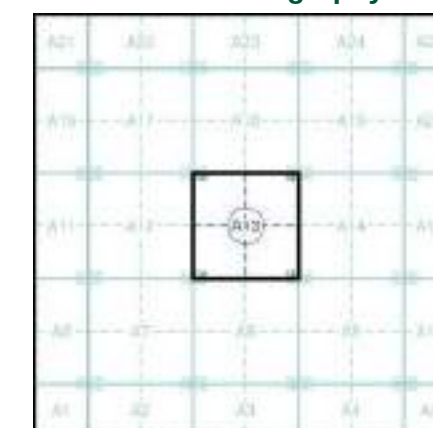


Historical Aerial Photography

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



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

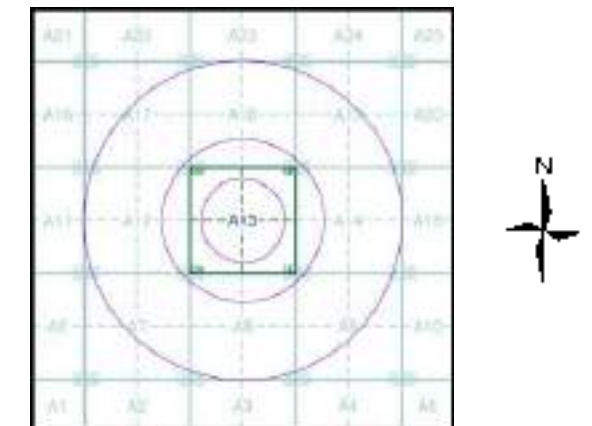
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1849 - 1850	3
Cheshire	1:10,560	1881	4
Lancashire And Furness	1:10,560	1894	5
Lancashire And Furness	1:10,560	1908	6
Lancashire And Furness	1:10,560	1928	7
Lancashire And Furness	1:10,560	1928	8
Lancashire And Furness	1:10,560	1938	9
Lancashire And Furness	1:10,560	1938 - 1951	10
Ordnance Survey Plan	1:10,000	1955 - 1956	11
Ordnance Survey Plan	1:10,000	1965 - 1967	12
Ordnance Survey Plan	1:10,000	1974 - 1978	13
Liverpool	1:10,000	1974	14
Ordnance Survey Plan	1:10,000	1982	15
St Helens	1:10,000	1984	16
Ordnance Survey Plan	1:10,000	1990 - 1991	17
10K Raster Mapping	1:10,000	1999	18
10K Raster Mapping	1:10,000	2006	19
VectorMap Local	1:10,000	2024	20

Historical Map - Slice A



Order Details

Order Number: 365702973_1_1
 Customer Ref: 24-787
 National Grid Reference: 345800, 390160
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

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

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

Non-fireproof Building Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale Hydroelectric Power Station

Radio Station, drawn to scale Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry Open-pit Salt Mine

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Double-track Railroad and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

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

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

180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

Factory or Mill Chimney Factory or Mill with Chimney Factory or Mill without Chimney Mine or Open Pit Mine

Operating Shaft or Mine Non-Operating Shaft or Mine Salt Mine Tailings Pile

Pit Stone Quarry Gas Pump or Service Station Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick Small Hydroelectric Power Station Power Station Transformer Station

Cemetery Burial Mound (height in metres) Triangulation Point on Burial Mound Triangulation Point

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

Telegraph/Telephone Lines Main Highway Highway under Construction Improved Dirt Road (former truck road)

Double-track Railroad with First Class Station Dismantled Railroad Railroad Under Construction

Shore Embankment River or Ditch with Embankment Direction and velocity of current Water Gauge Water Level Mark

Well Water Reservoir or Rain Water Pit Spring Isobath with value

Heavy (Index) Contour Line Contour Line and Value Half Contour Line Spot Elevation Value

Coniferous Deciduous Mixed Scrub

Key to Numbers on Mapping

SJ48NE_St_Helens

No.	Description
20	Factory (Telephones)

SJ49SE_St_Helens

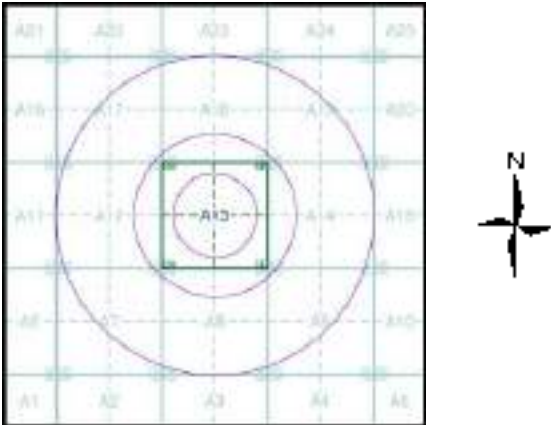
No.	Description
9	Factory (Artillery And Electrical Appliances)



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1849 - 1850	3
Cheshire	1:10,560	1881	4
Lancashire And Furness	1:10,560	1894	5
Lancashire And Furness	1:10,560	1908	6
Lancashire And Furness	1:10,560	1928	7
Lancashire And Furness	1:10,560	1928	8
Lancashire And Furness	1:10,560	1938	9
Lancashire And Furness	1:10,560	1938 - 1951	10
Ordnance Survey Plan	1:10,000	1955 - 1956	11
Ordnance Survey Plan	1:10,000	1965 - 1967	12
Ordnance Survey Plan	1:10,000	1974 - 1978	13
Liverpool	1:10,000	1974	14
Ordnance Survey Plan	1:10,000	1982	15
St Helens	1:10,000	1984	16
Ordnance Survey Plan	1:10,000	1990 - 1991	17
10K Raster Mapping	1:10,000	1999	18
10K Raster Mapping	1:10,000	2006	19
VectorMap Local	1:10,000	2024	20

Russian Map - Slice A



Order Details

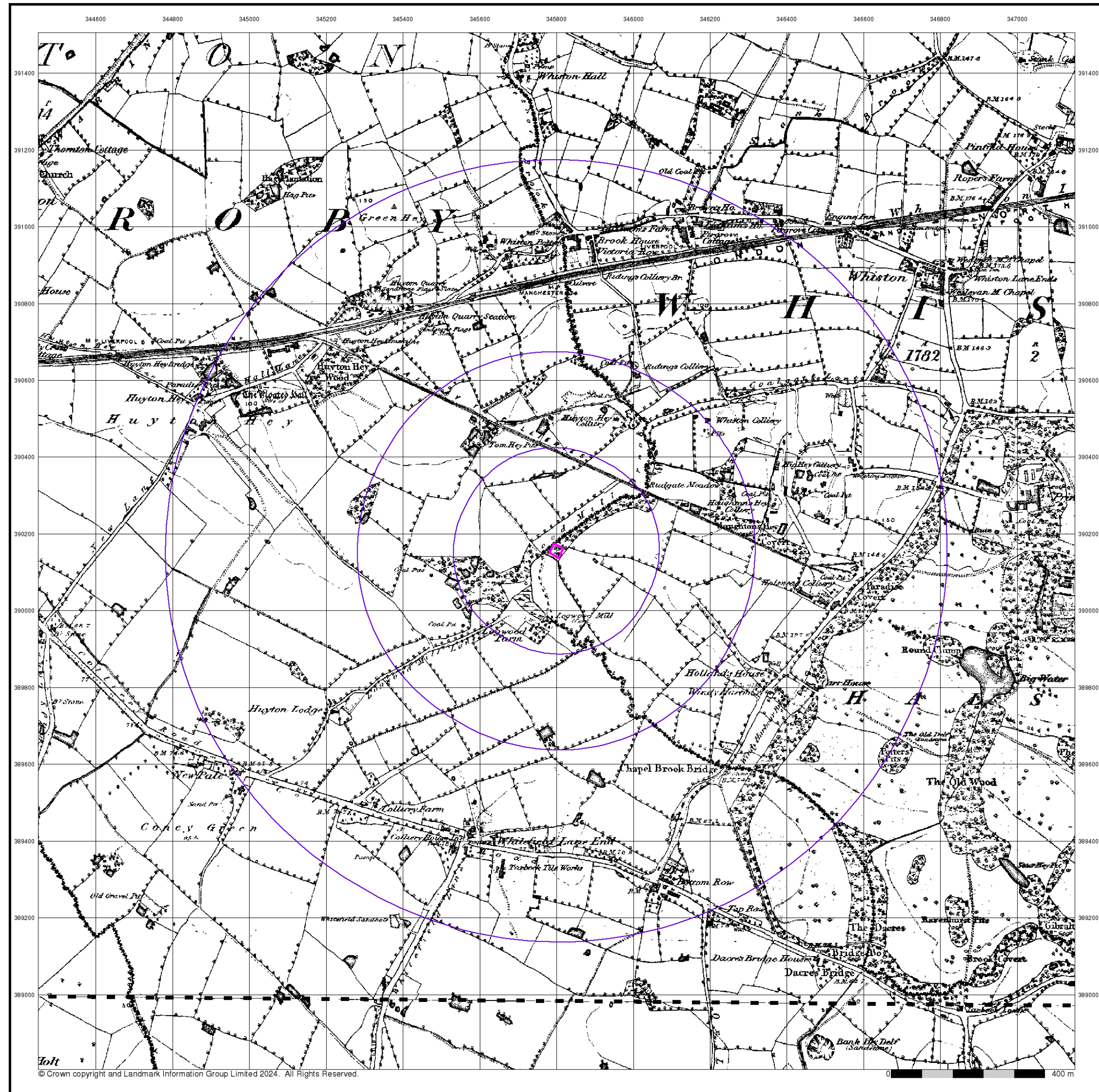
Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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



Lancashire And Furness

Published 1849 - 1850

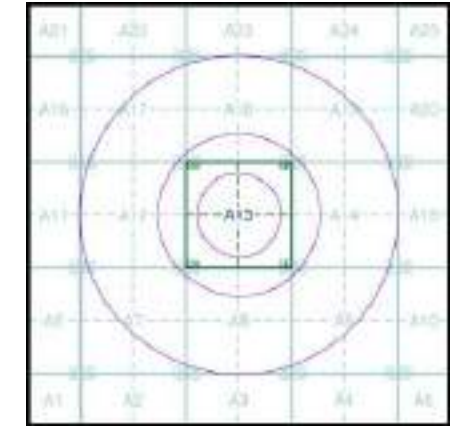
Source map scale - 1:10,560

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)

10700
1850
1:10,560
11400
1849
1:10,560

Historical Map - Slice A



Order Details

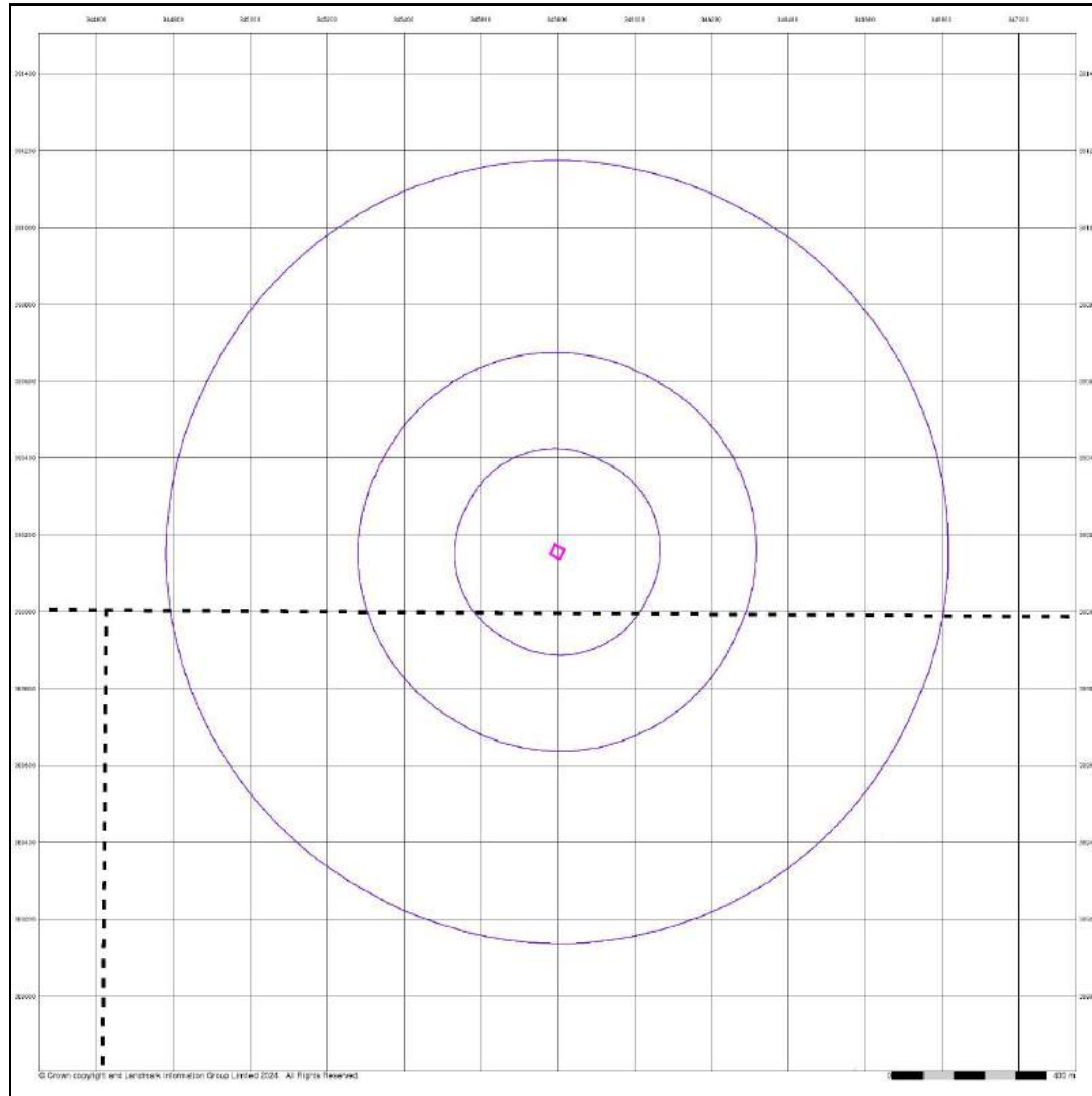
Order Number:	365702973_1_1
Customer Ref:	24-787
National Grid Reference:	345800, 390160
Slice:	A
Site Area (Ha):	0.08
Search Buffer (m):	1000

Site Details

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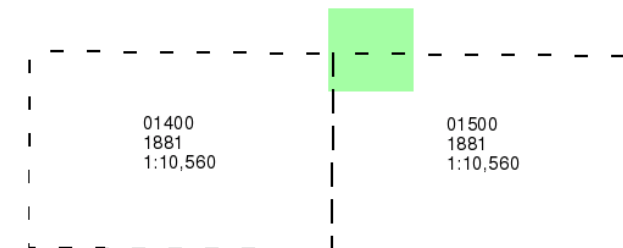
Cheshire

Published 1881

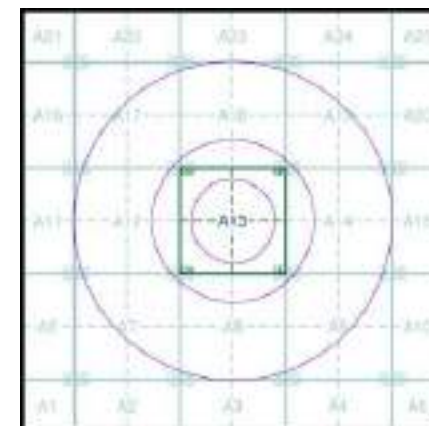
Source map scale - 1:10,560

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: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
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Web: www.envirocheck.co.uk



Lancashire And Furness

Published 1894

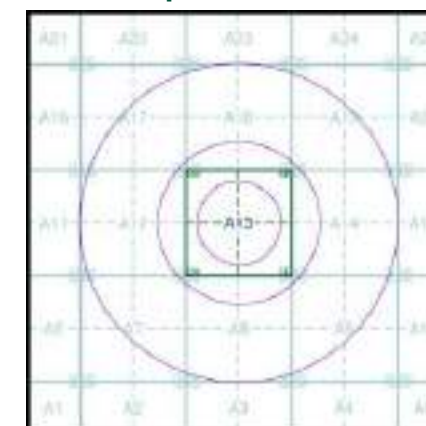
Source map scale - 1:10,560

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)

107SW 1894 1:10,560	107SE 1894 1:10,560
114NW 1894 1:10,560	114NE 1894 1:10,560

Historical Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

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



Lancashire And Furness

Published 1908

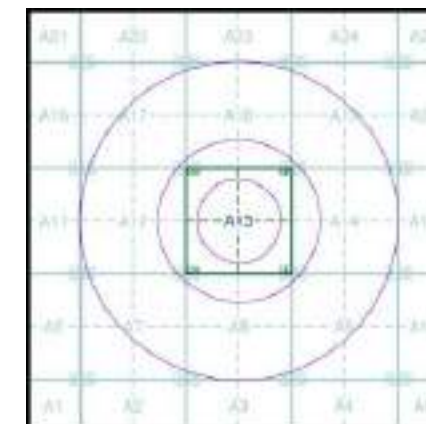
Source map scale - 1:10,560

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)

107SW 1908 1:10,560	107SE 1908 1:10,560
114NW 1908 1:10,560	114NE 1908 1:10,560

Historical Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
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Lancashire And Furness

Published 1928

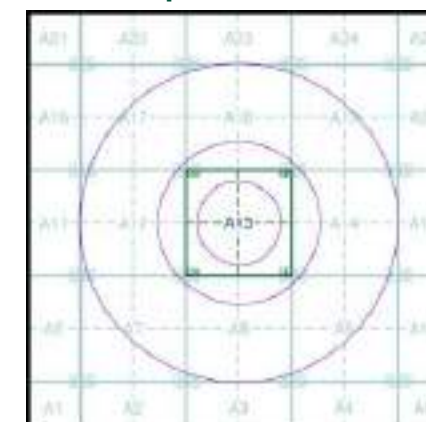
Source map scale - 1:10,560

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)

107SW 1928 1:10,560	107SE 1928 1:10,560
114NW 1928 1:10,560	114NE 1928 1:10,560

Historical Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
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Lancashire And Furness

Published 1928

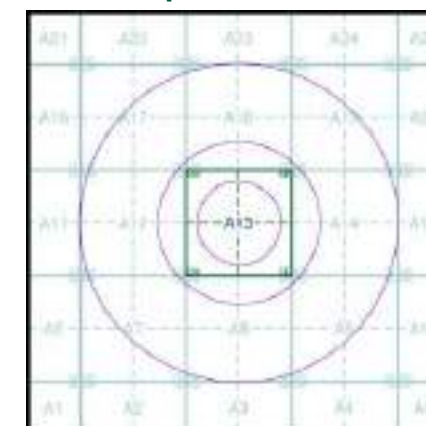
Source map scale - 1:10,560

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)

107SW	
1928	
1:10,560	
114NW	
1928	
1:10,560	

Historical Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
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Fax: 0844 844 9951
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Lancashire And Furness

Published 1938

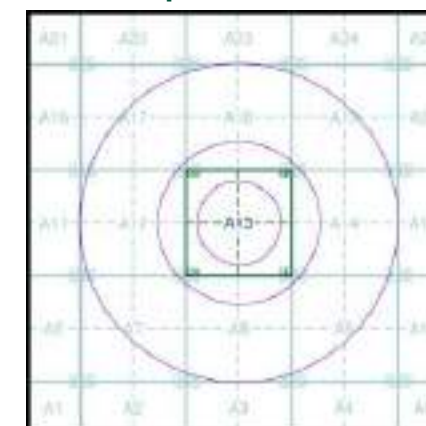
Source map scale - 1:10,560

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)

107SW 1938 1:10,560	107SE 1938 1:10,560
114NW 1938 1:10,560	114NE 1938 1:10,560

Historical Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

Huyton Food Waste Project, Link Estate, Link Road,
LIVERPOOL, L36 6AP



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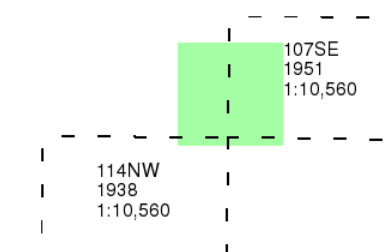
Lancashire And Furness

Published 1938 - 1951

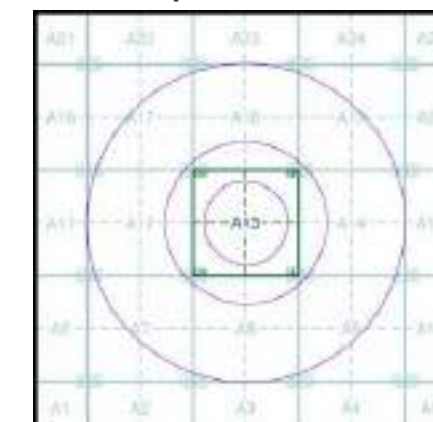
Source map scale - 1:10,560

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: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1955 - 1956

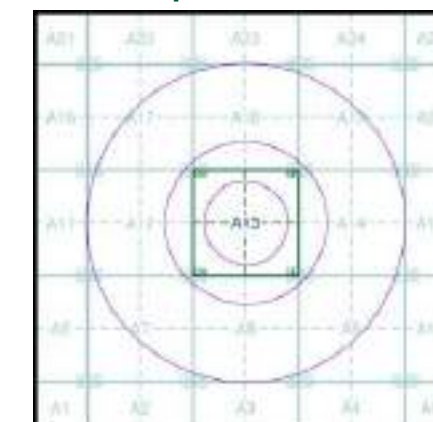
Source map scale - 1:10,000

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)

SJ49SW	SJ49SE
1956	1956
1:10,560	1:10,560
SJ48NW	SJ48NE
1956	1955
1:10,560	1:10,560

Historical Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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Fax: 0844 844 9951
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Ordnance Survey Plan

Published 1965 - 1967

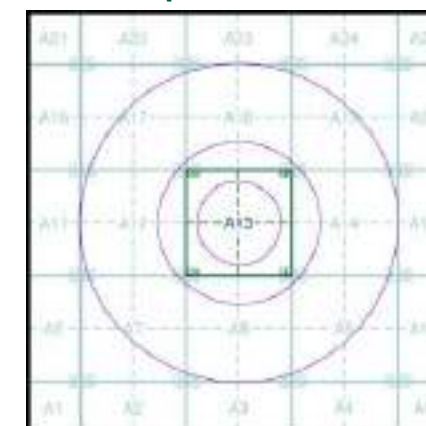
Source map scale - 1:10,000

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)

SJ49SW	SJ49SE
1965	1966
1:10,560	1:10,560
SJ48NW	SJ48NE
1967	1967
1:10,560	1:10,560

Historical Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1974 - 1978

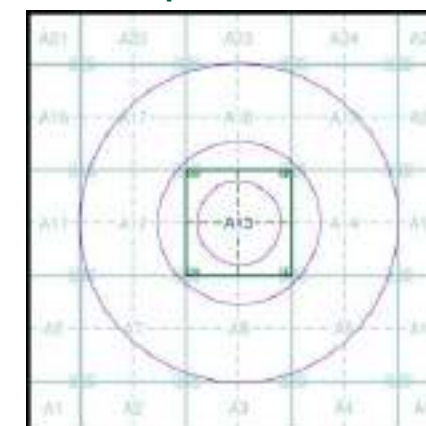
Source map scale - 1:10,000

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)

SJ49SW	SJ49SE
1978	1978
1:10,000	1:10,000
SJ48NW	SJ48NE
1974	1977
1:10,000	1:10,000

Historical Map - Slice A



Order Details

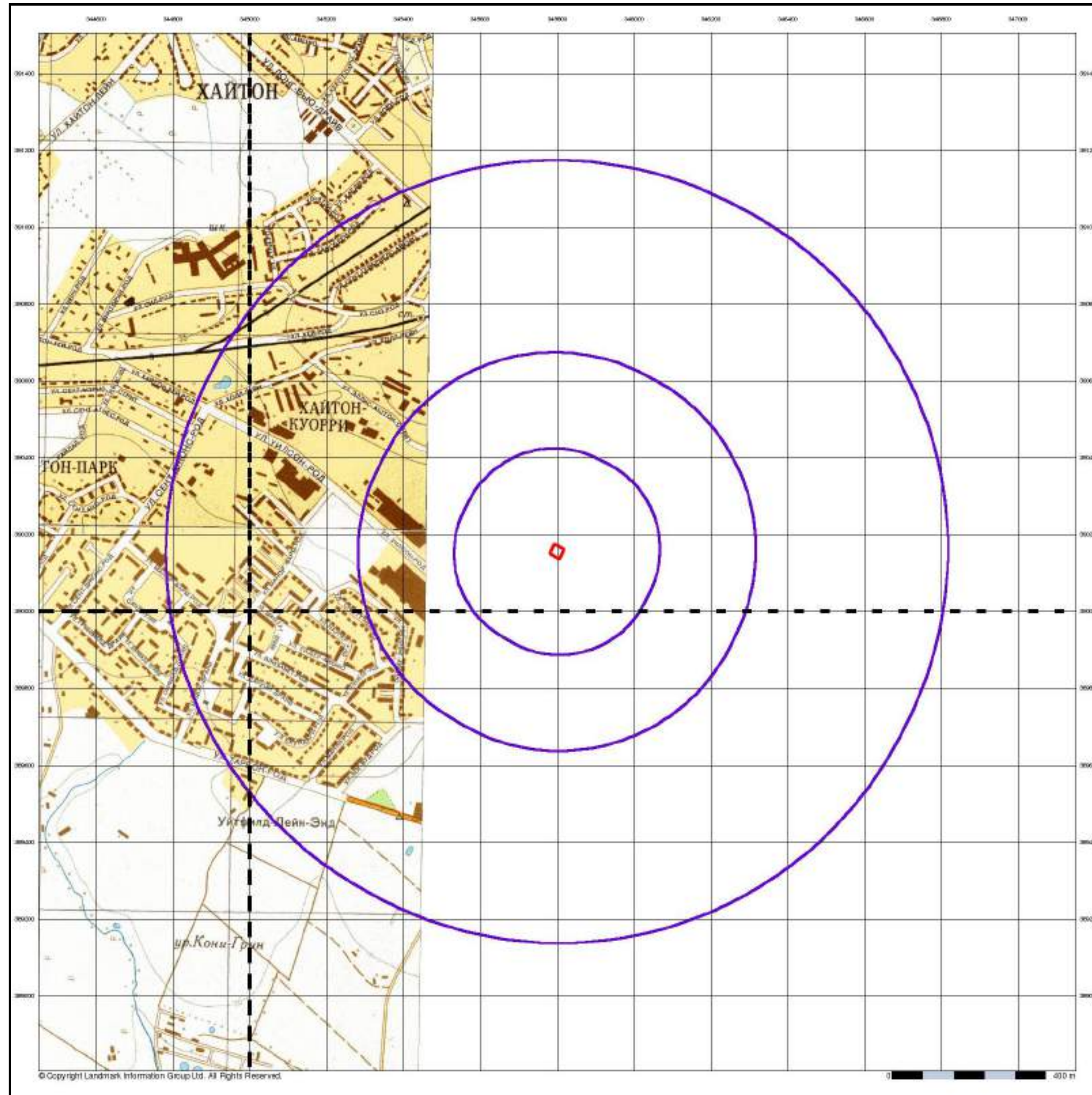
Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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Liverpool

Published 1974

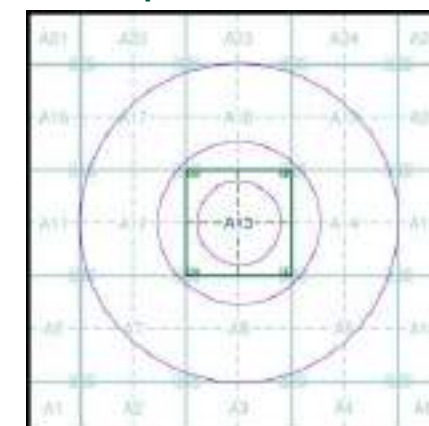
Source map scale - 1:10,000

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)

SJ49SW 1974 1:10,000	SJ49SE 1974 1:10,000
SJ48NW 1974 1:10,000	SJ48NE 1974 1:10,000

Russian Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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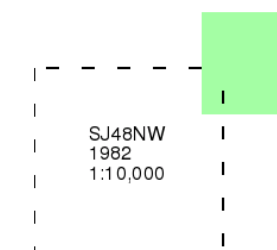
Ordnance Survey Plan

Published 1982

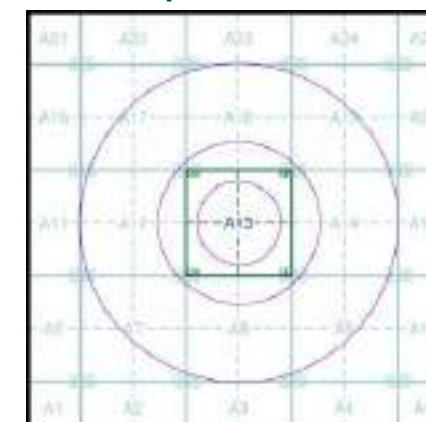
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

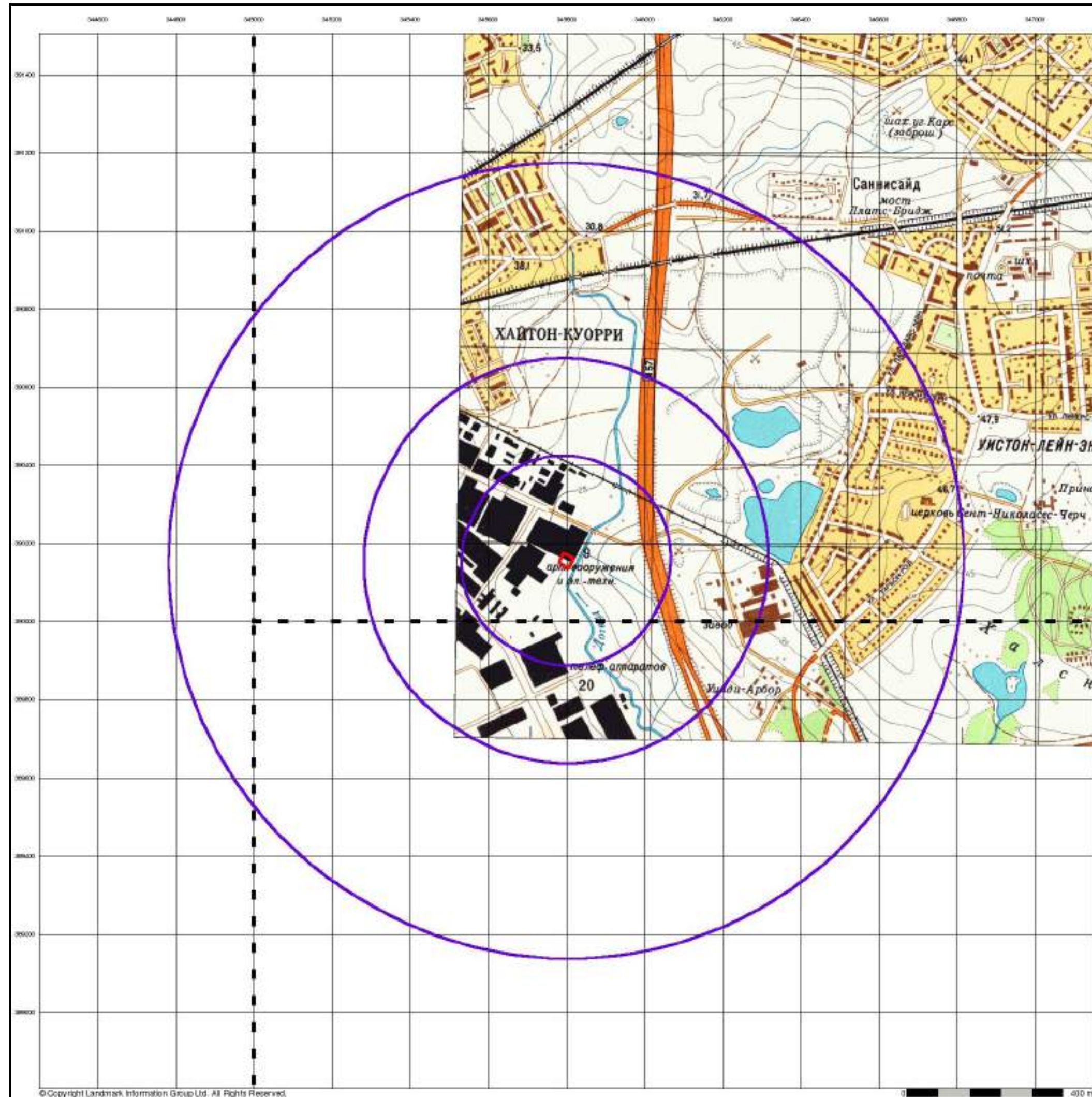
Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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St Helens

Published 1984

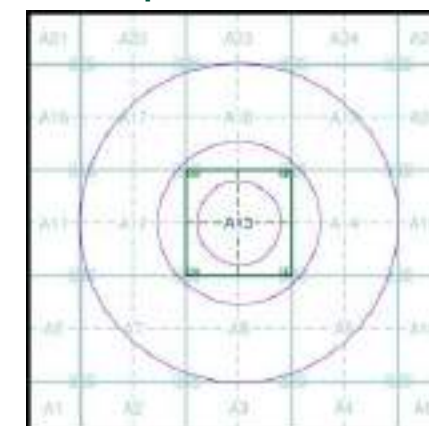
Source map scale - 1:10,000

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)

SJ49SE
1984
1:10,000
SJ48NE
1984
1:10,000

Russian Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

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Ordnance Survey Plan

Published 1990 - 1991

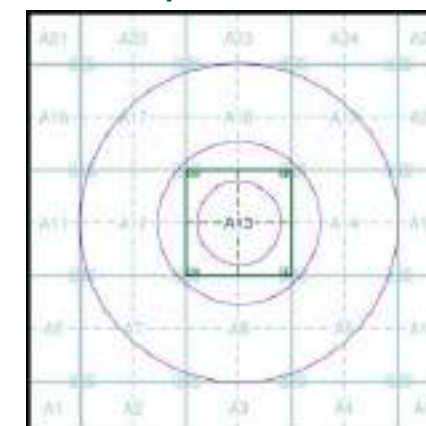
Source map scale - 1:10,000

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)

SJ49SW	SJ49SE
1990	1991
1:10,000	1:10,000
	SJ48NE
	1990
	1:10,000

Historical Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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10k Raster Mapping

Published 1999

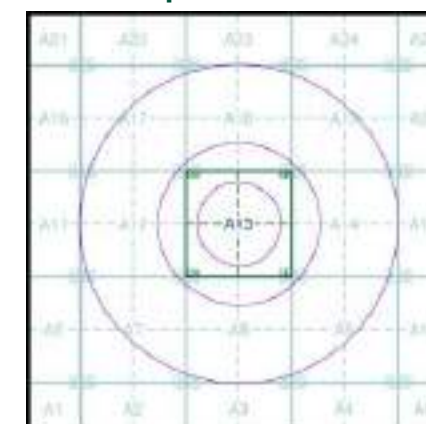
Source map scale - 1:10,000

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)

SJ49SW	SJ49SE
1999	1999
1:10,000	1:10,000
SJ48NW	SJ48NE
1999	1999
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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LIVERPOOL, L36 6AP



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10k Raster Mapping

Published 2006

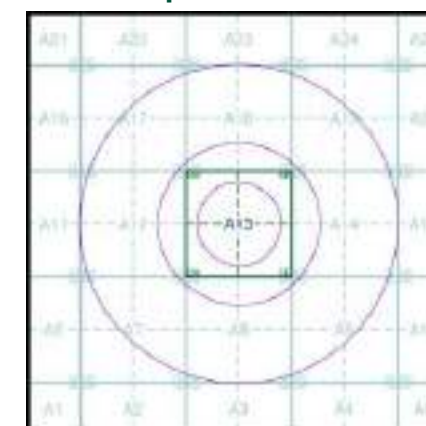
Source map scale - 1:10,000

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)

SJ49SW	SJ49SE
2006	2006
1:10,000	1:10,000
SJ48NW	SJ48NE
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
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Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

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VectorMap Local

Published 2024

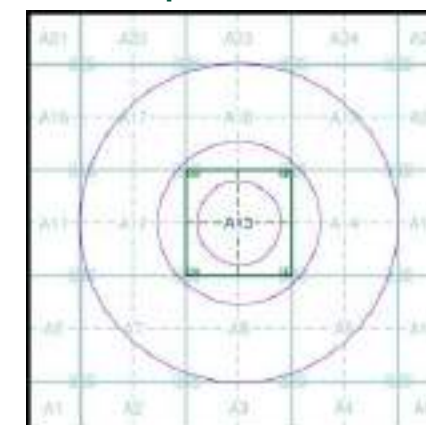
Source map scale - 1:10,000

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)

SJ49SW	SJ49SE
2024	2024
Variable	Variable
SJ48NW	SJ48NE
2024	2024
Variable	Variable

Historical Map - Slice A



Order Details

Order Number: 365702973_1_1
Customer Ref: 24-787
National Grid Reference: 345800, 390160
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

Huyton Food Waste Project, Link Estate, Link Road,
LIVERPOOL, L36 6AP



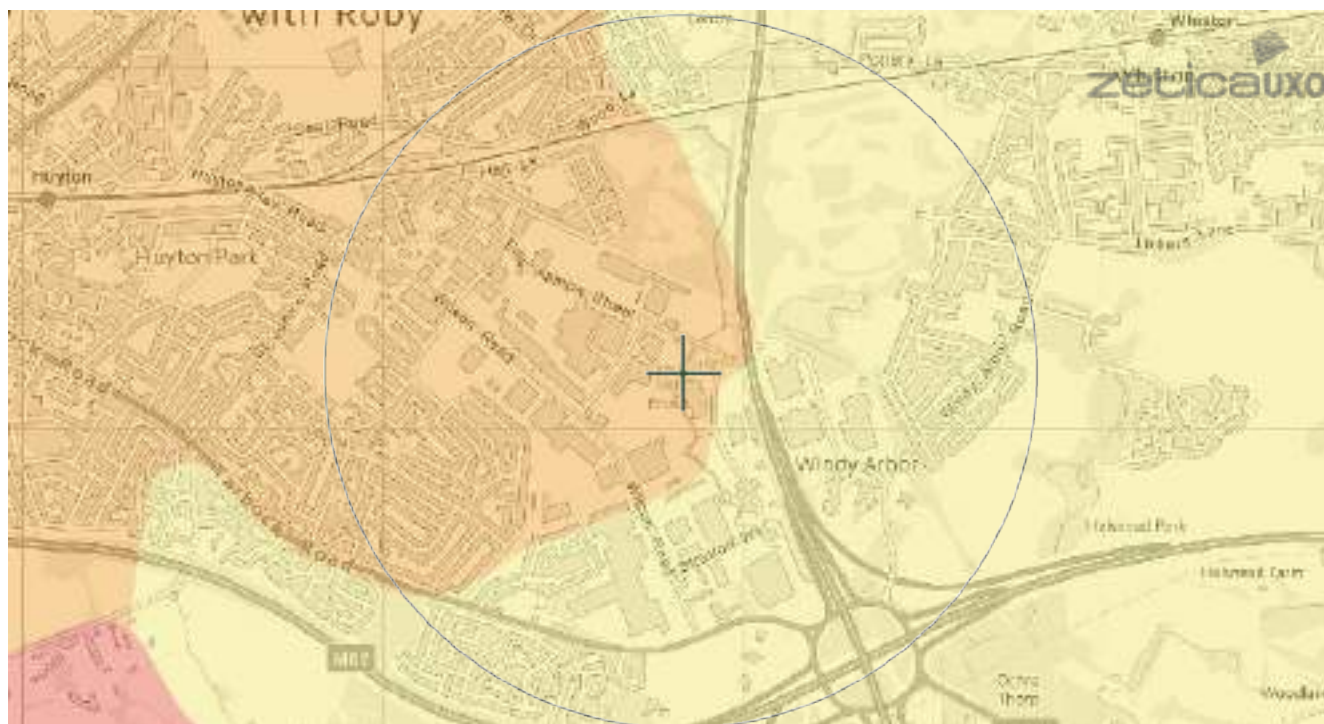
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

UNEXPLODED BOMB RISK MAP



SITE LOCATION

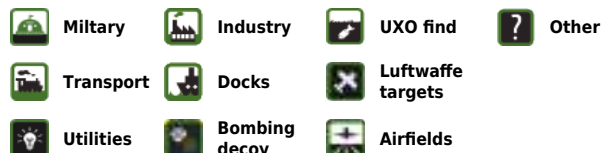
Map Centre: 345801,390160



This map principally indicates a hazard from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.



How to use your Unexploded Bomb (UXB) risk map?

This map indicates the potential for UXBs to be present because of World War Two (WWII) bombing. It can be incorporated into a technical report, such as a Phase 1 Desk Study, or similar document as an indication of the potential for UXO encounter on a Site. Other sources of UXO may also be indicated, although note that these are not comprehensive and more detailed research is required to confirm their presence.

What if my Site is in a moderate or high density area?

We typically recommend that a detailed UXO desk study and risk assessment is undertaken for sites in an area with a moderate or high bombing density. Additionally, if your site is in close proximity to a strategic target, military establishment, airfield or bombing decoy, then [additional detailed research](#) is recommended.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirm that there is a low potential for UXO to be present on your site, then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

If you are unsure whether other sources of UXO may be present, you can request one of our [pre-desk study assessments \(PDSA\)](#) by emailing a site boundary and location to pdsa@zetica.com.

You should never plan site work or undertake a risk assessment using these maps alone. More detail is required, to include an assessment of the likelihood of a source of UXO hazard from other military activity not reflected on these maps.

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682 email: uxo@zetica.com web: www.zeticauxo.com

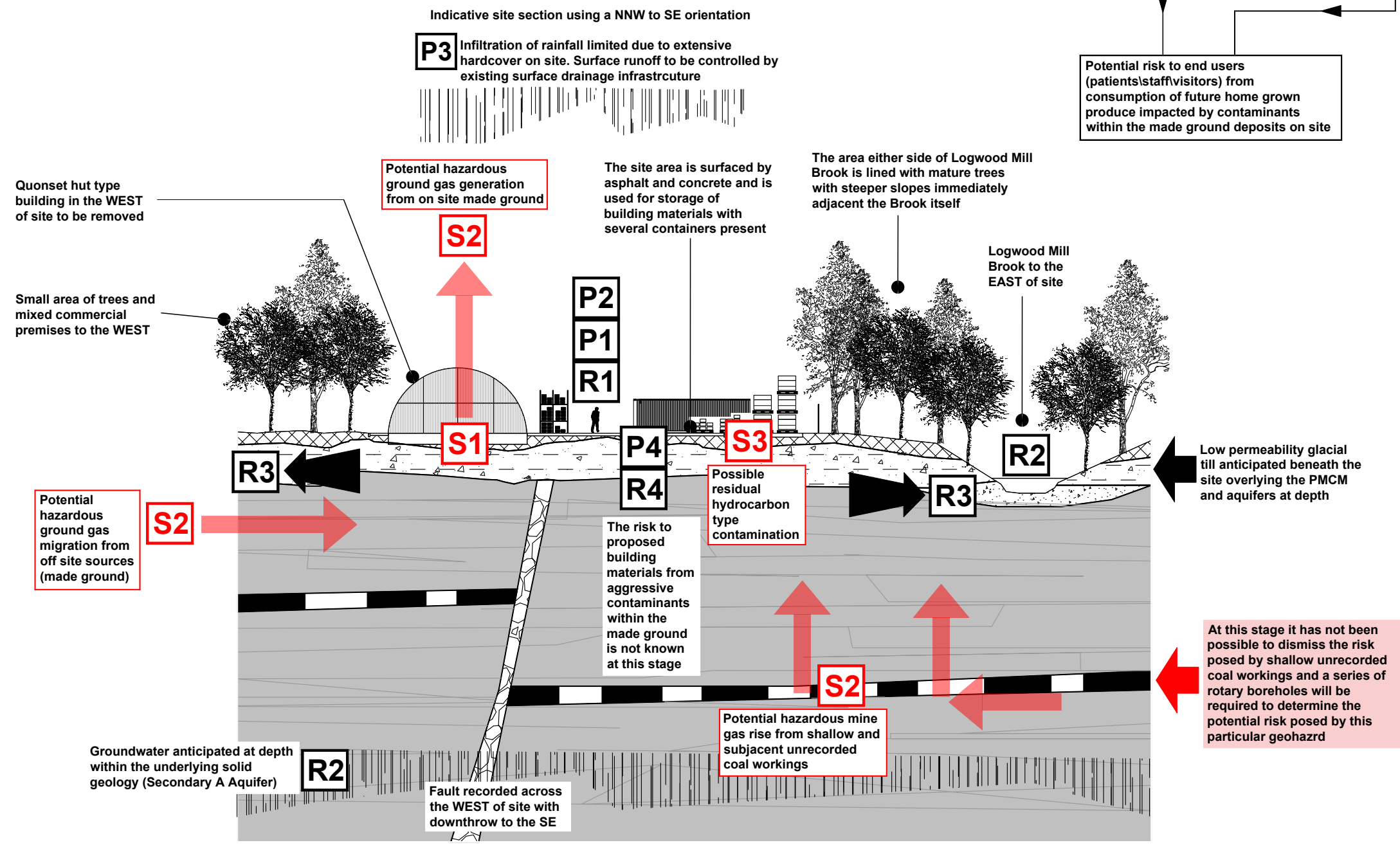
The information in this UXB risk map is derived from a range of sources and should be used with the [accompanying notes on our website](#).

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APPENDIX IV

Conceptual Site Model (CSM)

CRITICAL POLLUTANT LINKAGES				
SOURCE		PATHWAY		RECEPTOR
S	1. Made ground (associated with the historical on-site and adjacent developments) 2. Potential hazardous ground gas associated with on-site /off-site sources of made ground and mine workings beneath the site 3. Potential 'hot spots' of hydrocarbon contamination associated with the sites current use as a car park.	P	1. Ingestion & Dermal Contact 2. Inhalation of indoor / outdoor air 3. Surface runoff & Water Infiltration 4. Direct contact with building materials	R
				1. Human health - (End users and workforce) 2. Controlled Waters: No shallow groundwater anticipated. Deeper groundwater in the solid geology (Secondary Aquifer – A). Not considered to be at significant risk. Logwood Mill Brook is recorded to the EAST of site 3. Surface water and adjacent sites 4. Building materials and protection of water supply pipes 5. Flora and fauna



MADE GROUND:
According to published BGS data, the site is not recorded to be underlain by significant thicknesses of made ground, however made ground is expected, associated with previous on site and adjacent developmental interactions. According to Envirocheck Historical Mapping Series the site has been encroached by industrial development and compounds as far back as c.1974. The surrounding area has undergone various phases of development and redevelopment since the 1960s. Made ground deposits are anticipated to comprise a mixture of disturbed natural strata (clays, etc.) and anthropogenic debris (construction waste / demolition rubble etc.).



DRIFT DEPOSITS:
The published BGS data indicates that the site is underlain by Glacial Till (sandy gravelly clay with bands of sands and gravels).

BGS Trial Pit with reference SJ49SE301, c.50m south of the site, records made ground overlying firm grey becoming orangish brown, silty sandy clay with fine to coarse gravel from a depth of c.1.40m below ground level (bgl) to c.1.90m bgl. Underlain by firm to stiff, reddish brown occasionally grey silty sandy clay with fine to coarse gravel, recorded to a depth of c.2.70m bgl.



SOLID GEOLOGY:
The solid geology underlying the site is shown to comprise that of the Carboniferous Pennine Middle Coal Measures (PMCM) Formation – sandstone, which typically comprises interbedded grey mudstone, siltstone, pale grey sandstone and commonly coal seams, with a bed of mudstone containing marine fossils at the base, and several such marine fossil-bearing mudstones in the upper half of the unit. BGS Trial Pit SJ49SE301 records highly weathered mudstone (recorded as stiff clay) to a depth of at least c.3.00m bgl. A geological fault is also shown on the western site boundary, with the downthrow to the south-east. A number of faults are also present within the Pennine Lower Coal Measures within close proximity to the site



ARC ENVIRONMENTAL LTD

Solum House
Unit 1 Elliott Court
St. John's Road
Meadowfield
Durham, DH7 8PN
Tel: (0191) 378 6380
e-mail: admin@arc-environmental.com
web: www.arc-environmental.com

The contractor shall check all dimensions on site before commencement of any works. No dimensions to be scaled off this drawing.
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rev.	date	amendments	drawn	chckd

Client:
ALAN WOOD & PARTNERS

Project Title:
Proposed Development Veolia
Huyton Food Waste Project
Ellia Ashton Street, Liverpool, L36 6BJ

Drawing Title:
Conceptual Site Model

Scale at A3: NTS @ A3	Date: 21.01.25	Drawn by: P.D	Approved by: S.H
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Job Ref: 24-787	Drg no: —	Rev: —
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