

PHASE 1 SITE INVESTIGATION

Lidl (UK) GmbH
Bodhyfryd, Wrexham

Client: Lidl (UK) GmbH

Remada

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July 2017



Executive Summary

Remada Ltd was commissioned by Lidl (UK) GmbH ('the client') to undertake a Phase 1 Geoenvironmental Site Investigation for a proposed redevelopment of the Police Headquarters at Bodhyfryd, Wrexham, LL12 7BW. The objectives of this assessment were to develop a preliminary conceptual model of the site to identify plausible pollutant linkages, and provide recommendations for subsequent investigation work.

Site Setting

Wrexham Police Station occupies a broadly triangular plot of land with curved northern and eastern boundary formed by a landscape boundary to Powell Road and the A5152. A large car park is located in the north of the site area between Powell Road and the Police Headquarters buildings. The Headquarters is a complex of concrete façade buildings of various heights and elevations and most notably a tower block located in the centre of the site. The plant room is located on Level 13 or the roof of the tower. A generator and diesel tank are located within a building to the west of the site and with a visible external fuel filling point in the building wall. An electrical sub-station and gas room are also located in the same part of the complex.

The Police Station is linked by way of footbridge to the County Court that is immediately to the south. A car park exists between the two buildings and extends to the west to form the site boundary with a Memorial Hall to the south. Bodhyfryd enables vehicular access from the south west and continues through the site beneath the elevated buildings to the roundabout at Powell Road. A further car park in the west of the site is accessed from Bodhyfryd.

Historic maps indicate that the north-western zone of the site was in use as a timber yard prior to the date of the earliest available historic map. Subsequently, a lane that passed through the site area was rebuilt as Park View, with land to the east being designated as playing fields. Wrexham Police Station was constructed at a similar time to the construction of Powell Road (1975-1984) which formed the northern and eastern boundary to the site.

Potentially contaminative land uses include fuel filling and storage, the electricity substation room, and external vehicle parking. Potential contaminants include asbestos, metals, TPH, PAH, VOCs and PCBs. A nearby off-site petrol filling station to the east may also be a potential source of TPH, PAH and VOC contamination within soil and groundwater beneath the site.

There are no recorded deposits of Artificial Ground at the site. Superficial Deposits are recorded as Devensian Glaciofluvial Sheet Deposits comprising sands and gravels and designated as Secondary (A) Aquifer. Bedrock underlying the majority of the site area is indicated as being the Salop Formation comprising mudstone, sandstone and conglomerate and designated as Secondary (A) Aquifer.

Environmental Risk Assessment

The Preliminary Conceptual Site Model (Table 1) identifies potential pollutant linkages between contaminants associated with the former timber yard, former road, former playing fields, fuel storage, electrical substation and vehicle parking, and potential receptors associated with the proposed store and underlying Secondary (A) Aquifers.

Geotechnical Assessment

A geotechnical investigation would be required to characterise the potential made ground and natural ground and to provide recommendations for preliminary foundation design.

Recommendations

A borehole investigation would be required to investigate potential contaminants associated with the historic industrial land uses and to provide preliminary foundation design recommendations.



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Issue No /	Date	Prepared by	Authorised
G S Jones FINAL	06.07.2017	G S Jones / D Farquharson 	G S Jones 



1. INTRODUCTION

Remada Ltd was commissioned by Lidl (UK) GmbH ('the client') to undertake a Phase 1 Geoenvironmental Site Investigation (desk study & walkover) for a proposed store at the site of the Police Headquarters, Bodhyfryd, Wrexham, LL12 7BW at the location indicated on **Figure 1**.

1.1. Objectives

The objectives of this assessment are as follows:

- to develop a preliminary conceptual model of the site to identify plausible pollutant linkages; and
- to provide recommendations for subsequent investigation work.

1.2. Scope of Work

The scope of work comprised a:

- Site walkover;
- Review of local geological, hydrogeological, ground stability, and environmental data and historical mapping pertaining to the site and surrounding area; and
- Identification of potential sources, pathways, and receptors, and development of a preliminary conceptual site model.

1.3. Previous Reports

It is not known if reports have been previously prepared for the site.

1.4. Limitations

The comments given in this report and the opinions expressed are based on the information reviewed and observations during site work. However, there may be conditions pertaining to the site that have not been disclosed by this assessment and therefore could not be taken into account.



2. DESK STUDY & WALKOVER

2.1. Description of Site

The following site description is based on available on-line images and site walkover conducted on 6th July 2017.

Wrexham Police Headquarters building occupies a broadly triangular plot of land with curved northern and eastern boundary formed by a landscape boundary to Powell Road and the A5152. A large car park is located in the north of the site area between Powell Road and the Police Headquarters buildings. The Headquarters is complex of concrete façade buildings with various heights and elevations and most notably a tower block located in the centre of the site. The plant room is located on Level 13 or the roof of the tower. A generator and diesel tank are located within a building in the west of the site with a visible external fuel filling point at the building wall. An electrical sub-station and gas room are also located in the same part of the complex.

The Police Station is also linked by way of footbridge to the County Court immediately to the south with site boundary being formed by car park. The car park continues to the west and forms the site boundary to a Memorial Hall to the south. Bodhyfryd enables vehicular access from the south west and continues through the site beneath the elevated buildings to the roundabout at Powell Road. A further car park in the west of the site is accessed from Bodhyfryd. The existing site layout is presented as **Figure 2**.

Area of Site Approximately 11000 m².

Site Elevation The topographic elevation of the site is approximately 85.3m AOD (metres above ordnance datum).

National Grid Co-ordinates 333750 (E), 350680 (N)



View from west towards main entrance



View from Bodhyfryd towards north

	
Generator diesel tank filling point	Centre of site towards Bodhyfryd
	
Centre of site – view towards south	Centre of site – view towards west
	
South of site with footbridge to Courts	South of site

2.2. Proposed Site Use

It is understood that the site is to be redeveloped as a Lidl store.



2.3. Site Setting

North:	Powell Road is located immediately to the north beyond which is a residential area. A school is located to the north east and accessed from the roundabout from which the Police Station is also accessed.
East:	The roundabout forms an access to an ASDA petrol filling station which is situated to the east of the Powell Road beyond which is a large car park and ASDA store. Retail parks are also located further to the south east beyond a Chapel that is adjacent to the A5152.
South:	The County Court building is located immediately to the south of the site beyond which are commercial buildings are car parking. A Memorial Hall is located to the south of the site and accessed from Bodhyfryd which also serves the Police Station. Car parks are located to the south and south west of the Memorial Hall towards the town centre
West:	Residential housing is located immediately to the west, with a Chapel to the south west beyond which there are school buildings adjacent to Chester Road.

2.4. Site History

A summary of the historical land use of the site and surrounding area follows:

Map Date	Description of on-site activities
1899	The majority of the site area lies within two fields to the south east of a north-east to south-west traversing lane which joins Chester Road to the south west of the site area. The remaining north-west zone of the site to west of the lane is recorded as a timber yard. A broadly east-west aligned track is located in the south of the site area.
1912	Similar to above.
1937	The lane has been reconstructed, straightened as Park Avenue and the timber yard is no longer indicated. Land either side of Park Avenue is undeveloped.
1958/59	Similar to above.
1960	The open land is recorded as a playing field.
1966-79	Similar to above.
1975-1984	Powell Road has been constructed to form the radial north and west boundary of the site. Park View is no longer present to the south of Park View as the Police Station has been constructed with a similar layout to the present day.
Map Date	Description of off-site activities
1899	Land to the north, east and south is open fields with a north east to south-west traversing lane joining Chester Road to the south west of the site. The timber yard to the north west of the lane and with the site area extends to southwest of the lane. Some small buildings are situated to the west of the timber yard and adjacent to Chester Road. The east-westerly track in the south of the site provides access from



the lane to a building recorded as Beaconsfield to the east. Wrexham town centre lies a short distance to the south west.

1912	Similar to above.
1937	The lane has been reconstructed, straightened as Park Avenue and the timber yard is no longer indicated. Housing has been constructed to the east of Park Avenue to the north of the site with Alexandra Schools beyond. The density of housing has also increased to the south as extension of Wrexham town centre.
1958/59	The Memorial Hall and car park has been constructed to the south-west adjacent Park View and the general density of housing and development has increased to the north and west. Beaconsfield to the east is recorded as Llanellwy Girls Home and Grove Park Grammar School is recorded on two sites adjacent to Chester Road.
1966-79	Similar to above with construction of a War Memorial to the south west of the Memorial Hall.
1975-1984	Powell Road has been constructed to form the north and west boundary of the site. Park View is no longer present to the south of Park View as the Police Station has been constructed with a similar layout to the present day.

2.5. Environmental Setting

2.5.1. Made Ground and Superficial Geology

There are no recorded deposits of Artificial Ground at the site. Superficial Deposits are recorded as Devensian Glaciofluvial Sheet Deposits comprising sands and gravels and designated as Secondary (A) Aquifer.

2.5.2. Solid Geology

Bedrock underlying the majority of the site area is indicated as being the Salop Formation comprising mudstone, sandstone and conglomerate and designated as Secondary (A) Aquifer.

2.5.3. Groundwater Abstractions

There are no groundwater abstraction license records within 1km of the site.

2.5.4. Source Protection Zones

The site is not located within 1km of a groundwater Source Protection Zone (SPZ).

2.5.5. Surface Water Features and Abstractions

The nearest surface watercourse recorded in the Envirocheck report (**Appendix B**) is Bache Brook / River Gwenfro approximately 450 m to the south.

2.5.6. Flooding Vulnerability

The site is a location where there is potential for groundwater flooding may occur at the surface.

2.5.7. Ground Stability

The Envirocheck reports (**Appendix B**) provides the following information regarding ground stability at the site.



Collapsible Ground Hazard Potential	Very Low
Compressible Ground Hazard Potential	No Hazard
Ground Dissolution Hazard Potential	No Hazard
Landslide Hazard Rating	Very Low
Running Sand Hazard Rating	Very Low
Shrinking / Swelling Hazard Rating	No Hazard

2.5.8. Radon

The Envirocheck report (**Appendix B**) indicates that the property is an intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level) and basic radon protective measures are necessary in the construction of new dwellings or extensions

2.5.9. Environmentally Sensitive Site Designations

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

2.6. Environmental Permits, Incidents & Registers

The Envirocheck report (**Appendix B**) records 36 discharge consents, 8 Local Authority Pollution Prevention Control permits and 52 incidents of pollution to controlled waters within 1km of the site. The permits include the ASDA petrol filling station approximately 150m to the east.

2.7. Landfill & Waste Sites

The Envirocheck report (**Appendix B**) records three historic landfill sites and three local authority recorded landfill sites and two licensed waste management facilities within 1km of the site.

2.8. Coal Authority Search

The Coal Authority Non-residential Mining Search at **Appendix C** states that:

'The property is in a surface area that could be affected by underground mining in 1 seam of coal at 670m depth, and last worked in 1966.

Any movement in the ground due to coal mining activity should have stopped'.



3. PRELIMINARY RISK ASSESSMENT

3.1. Introduction

A Preliminary Risk Assessment (PRA) has been completed for the site. This PRA identifies the potential sources, pathways, and receptors for the site, in order to assess the potential risks posed by identified potential sources to human health and / or controlled waters receptors. When required, the viability of the Source-Pathway-Receptor pollutant linkage must be evaluated further to determine whether an actual risk is present.

3.2. Potential Sources

On-site Historical

- Timber yard in north-west of site area
- Former Park View road
- Potential levelling and regrading for playing fields
- Earthworks construction to form present day site levels

On-Site Current

- Existing Police Station with fuel tank, electricity substation, gas room and external vehicle parking

Off-site Historical

- Timber yard.

Off-site Current

- ASDA petrol filling station (PFS) to east.

3.3. Potential Contaminants of Concern (PCOCs)

Timber yard in north-west of site

- PAHs.

Former Park View Road

- PAHs.

Playing Fields

- Metals, sulphate, asbestos, pH, TPH, PAH.

Police station generator/sub-station & diesel filling / storage location

- Metals, sulphate, asbestos, pH, TPH, PAH, VOCs, SVOCs, PCBs.

Vehicle Parking

- TPH, PAH.

Nearby PFS

- VOCs, TPH, PAH.

3.4. Potential Receptors

Human Health

- On-site store staff.
- Construction workers.



- On-site general public and visiting staff (such as contractors, including those conducting excavation works).

Controlled Waters

- Secondary (A) Aquifers in Superficial Deposits.
- Secondary (A) Aquifer in bedrock.

3.5. Preliminary Conceptual Model

The Preliminary Conceptual Site Model (PCSM) of the site has been prepared and illustrates the potentially active pollutant linkages. A pollutant linkage is present only when a source, pathway and receptor exist together.

- A **source** is a substance that has potential to cause harm or adversely affect human health, water resources or the wider environment.
- A **pathway** is the route or means by which a source of contamination can migrate resulting in exposure to a receptor.
- A **receptor** is something that could be adversely affected by a contaminant such as human health, an ecological system, animals or crops, buildings or controlled waters.

The Preliminary Conceptual Site Model is presented in **Table 1**.



Potential Source Areas	Potential Contaminant of Concern	Pathways	Potential Receptor	Exposure Route (Human unless otherwise stated)	Potential Identified Linkage (unmitigated)	Findings of Ground investigation	Risk (Un-mitigated)	Proposed Remediation (Mitigation) Measures	Residual Risk Estimation
On-site Sources Current Police Station / Fuel storage / sub-station / vehicle parking	Asbestos / Metals As, Be, Cd, Cu, Cr (VI), Cr (III) Hg, Ni, Se, Va, Zn, SO ₄ , TPH /PAH / VOCs/ SVOCs	Disturbance due to construction plant causing direct contact, dusts, vapours. Direct Contact with occupants of the proposed development	Occupants of the development / building fabric	• Direct Ingestion Soil	• Yes	To be assessed (TBA)	Potential risk	To be assessed (TBA)	To be assessed (TBA)
				• Indoor Dust ingestion	• Yes	As above	Potential risk	TBA	TBA
				• Skin Contact with Soils	• Yes	As above	Potential risk	TBA	TBA
				• Skin Contact with Dust	• Yes	As above	Potential risk	TBA	TBA
Historic Timber yard / Park View Sports Pitches	Asbestos / Metals As, Be, Cd, Cu, Cr (VI), Cr (III) Hg, Ni, Se, Va, Zn, SO ₄ , TPH /PAH	Inhalation of vapours/ gases by occupants of proposed development	Occupants of the development / building fabric	• Inhalation of Outdoor Dust	• Yes	As above	Potential risk	TBA	TBA
				• Ingestion of home grown produce	• Yes	As above	Potential risk	TBA	TBA
				• Inhalation of Outdoor Vapours	• Yes	As above	Potential risk	TBA	TBA
				• Inhalation of Indoor Vapours	• Yes	As above	Potential risk	TBA	TBA
Off-site Sources Petrol filling station	TPH /PAH / VOCs	Permeation of water supply pipework Leachate and migration within underlying soils & groundwater	Secondary (A) Aquifers	• Inhalation of ground gas	• Yes	As above	Potential risk	TBA	TBA
				• Ingestion via permeated water supply pipework	• Yes	As above	Potential risk	TBA	TBA
				• Leachate and migration within underlying soils & groundwater	• Yes	As above	Potential risk	TBA	TBA

Table 1: Preliminary Conceptual Site Model

Direct contact with subsurface soil and/or groundwater during redevelopment works are not assessed as part of the CSM. It is considered that risks to workers will be managed as part of any the redevelopment works at the site through the application of health and safety procedures, where required.



4. CONCLUSIONS & RECOMMENDATIONS

4.1. Conclusions

Historic maps indicate that the north-western zone of the site was in use as a timber yard prior to the date of the earliest available historic map. Subsequently, a lane that passed through the site area was rebuilt as Park View, with land to the east being designated as playing fields. Wrexham Police Station was constructed at a similar time to the construction of Powell Road (1975-1984) which formed the northern and eastern boundary to the site.

The Police Headquarters was constructed as a complex of buildings with differing ground floor or basement levels and differing heights, most notably with a central tower with a roof top plant room at level 13. One building in the west of the site houses a fuel storage tank for a generator, electricity sub-station and a gas house. Potentially contaminative land uses include fuel filling and storage, the electricity substation room, and external vehicle parking. Potential contaminants include asbestos, metals, TPH, PAH, VOCs and PCBs. A nearby off-site petrol filling station may also be a potential source of TPH, PAH and VOC contamination within soil and groundwater beneath the site.

Geological maps indicate that the site is underlain by Glacial Deposits comprising sands and gravels overlying mudstones of the Salop Formation. Both the superficial deposits and bedrock are designated as Secondary (A) Aquifers.

A Coal Authority search identified historic mining of one seam of coal at 670m bgl.

4.2. Recommendations

For the proposed store extension, it is recommended that a Phase 2 intrusive ground investigation is implemented in order to determine the:

- Potential contaminants associated with the former uses of the site; and
- Required foundation depths.



REFERENCES & GUIDANCE

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STUDY LIMITATIONS

IMPORTANT. This section should be read before reliance is placed on any of the information, opinions, advice, recommendations or conclusions contained in this report.

1. This report has been prepared by Remada, Ltd with all reasonable skill, care and diligence within the terms of the Appointment and with the resources and manpower agreed with (the 'Client'). Remada does not accept responsibility for any matters outside the agreed scope.

2. This report has been prepared for the sole benefit of the Client unless agreed otherwise in writing.

3. Unless stated otherwise, no consultations with authorities or funders or other interested third parties have been carried out. Remada is unable to give categorical assurance that the findings will be accepted by these third parties as such bodies may have published, more stringent objectives. Further work may be required by these parties.

4. All work carried out in preparing this report has used, and is based on, Remada's professional knowledge and understanding of current relevant legislation. Changes in legislation or regulatory guidance may cause the opinion or advice contained in this report to become inappropriate or incorrect. In giving opinions and advice pending changes in legislation, of which Remada is aware, have been considered. Following delivery of the report Remada has no obligation to advise the Client or any other party of such changes or their repercussions.

5. This report is only valid when used in its entirety. Any information or advice included in the report should not be relied upon until considered in the context of the whole report.

6. Whilst this report and the opinions made are to the best of Remada's belief, Remada cannot guarantee the accuracy or completeness of any information provided by third parties.

7. This report has been prepared based on the information reasonably available during the project programme. All information relevant to the scope may not have received.

8. This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of changes in the condition of the site since the time of the investigation.

9. The content of this report represents the professional opinion of experienced environmental consultants. Remada does not provide specialist legal or other professional advice. The advice of other professionals may be required.

10. Where intrusive investigation techniques have been employed they have been designed to provide a reasonable level of assurance on the conditions. Given the discrete nature of sampling, no investigation technique is capable of identifying all conditions present in all areas. In some cases the investigation is further limited by site operations, underground obstructions and above ground structures. Unless otherwise stated, areas beyond the boundary of the site have not been investigated.

11. If below ground intrusive investigations have been conducted as part of the scope, service tracing for safe location of exploratory holes has been carried out. The location of underground services shown on any drawing in this report has been determined by visual observations and electromagnetic techniques. No guarantee can be given that all services have been identified. Additional services, structures or other below ground obstructions, not indicated on the drawing, may be present on site.

12. Unless otherwise stated the report provides no comment on the nature of building materials, operational integrity of the facility or on any regulatory compliance issues.

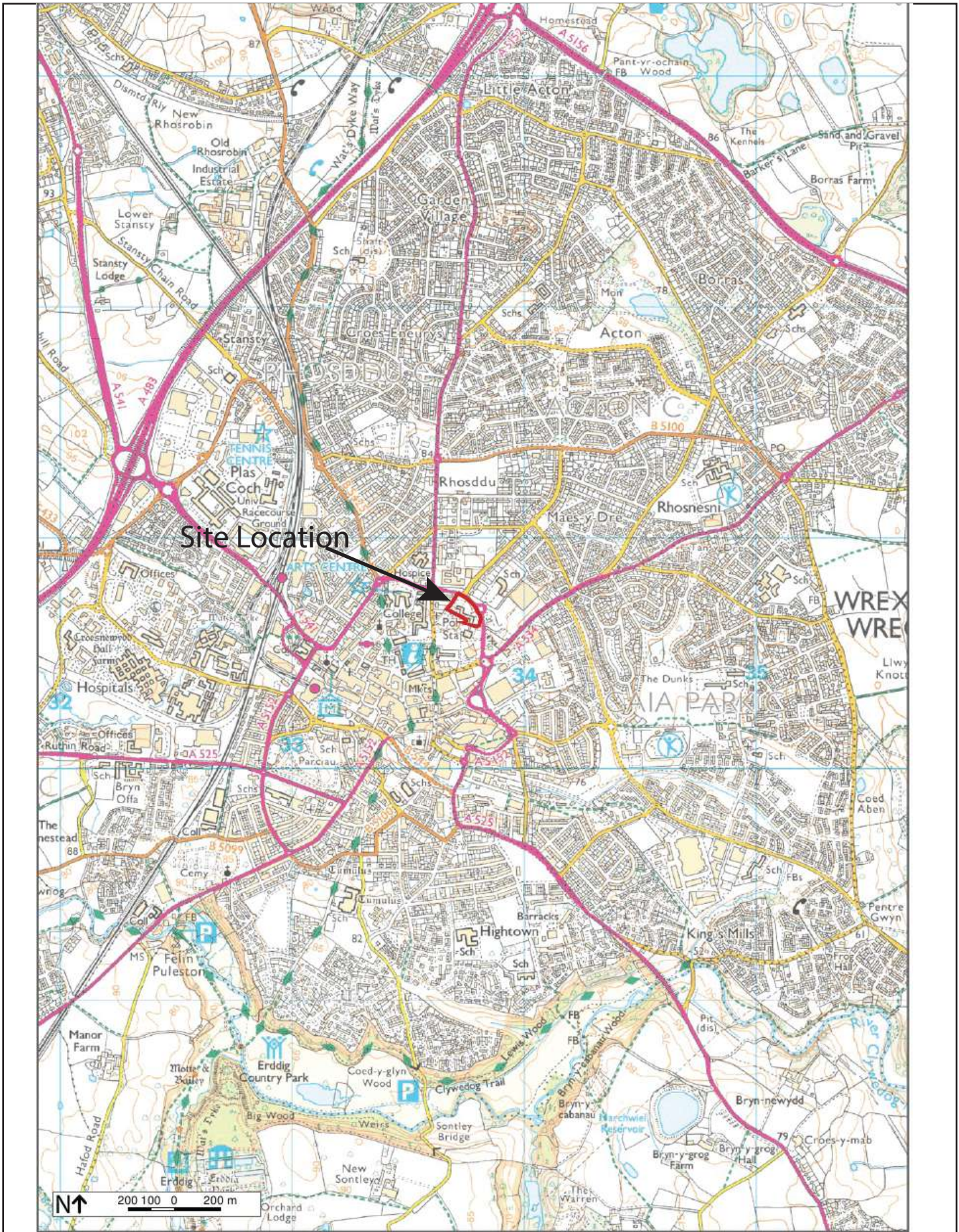
13. Unless otherwise stated, samples from the site (soil, groundwater, building fabric or other samples) have NOT been analysed or assessed for waste classification purposes.



FIGURES

Figure 1 Site Location Plan

Figure 2 Existing Site Layout



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Project Title

Wrexham Police Station

Drawing Title

Figure 1: Site Location Plan

Client

Lidl (UK) GmbH

Scale as shown

Date 06.07.17

Drawn GSJ

Approved GSJ

Size A4

Job No. 517.01

Remada





Legend

Notes

Pro-map provided by client

Project Title

Wrexham Police Station

Drawing Title

Figure 2: Existing Site Layout

Client

Lidl (UK) GmbH



Drawn

GJ

Approved

GJ

Job No.

517.01

Scale

NTS

Size

A3

Date

16.05.17

Remada

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APPENDIX A

Envirocheck Historical Mapping

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

	Quarry		Gravel Pit		Sand Pit
	Clay Pit		Shingle		Refuse Heap
	Sloping Masonry		Flat Rock		
	Marsh		Reeds		Osiers
	Rough Pasture		Furze		Wood
	Mixed Wood		Brushwood		Orchard
	Fir		Ford		Stepping Stones
	Ferry		Waterfall		Lock
	Trig. Station	507		Altitude at Trig. Station	
<i>B.M. 325.9</i>	Bench Mark	342		Surface Level	
	Arrow denotes flow of water		Antiquities (site of)		
	Cutting		Embankment		
	Railway crossing Road		Level Crossing		Road crossing Railway
	Railway crossing River or Canal		Road over single stream		Road over River or Canal
----	County Boundary (Geographical)				
- . - . - .	County & Civil Parish Boundary				
+ . + . + .	Administrative County & Civil Parish Boundary				
----	County Borough Boundary (England)				
Co. Boro. Bdy.					
----	County Burgh Boundary (Scotland)				
Co. Burgh Bdy.					
<i>B.P. B.S.</i>	Boundary Post or Stone	<i>P.C.B.</i>	Police Call Box		
<i>B.R.</i>	Bridle Road	<i>P.</i>	Pump		
<i>E.P.</i>	Electricity Pylon	<i>S.P.</i>	Signal Post		
<i>F.B.</i>	Foot Bridge	<i>Sl.</i>	Sluice		
<i>F.P.</i>	Foot Path	<i>Sp.</i>	Spring		
<i>G.P.</i>	Guide Post or Board	<i>T.C.B.</i>	Telephone Call Box		
<i>M.S.</i>	Mile Stone	<i>Tr.</i>	Trough		
<i>M.P. M.R.</i>	Mooring Post or Ring	<i>W.</i>	Well		

	or	Inactive Quarry, Chalk Pit or Clay Pit		Active Quarry, Chalk Pit or Clay Pit
		Rock		Boulders
		Cliff		Slopes
		Roofed Building		Glazed Roof Building
		Sloping Masonry		Archway
		Non-Coniferous Tree (surveyed)		Coniferous Tree (surveyed)
		Non-Coniferous Trees (not surveyed)		Coniferous Trees (not surveyed)
		Orchard Tree		Scrub
		Coppice, Osier		Reeds
		Rough Grassland		Heath
		Direction of water flow		Bench Mark
		Cave Entrance		Triangulation Station
		Electricity Transmission Line		Antiquity (site of)
		County Boundary (Geographical)		Electricity Pylon
		County & Civil Parish Boundary		
		Civil Parish Boundary		
		Admin. County or County Bor. Boundary		
		London Borough Boundary		
		Symbol marking point where boundary mereing changes		
BH	Beer House	P	Pillar, Pole or Post	
BP, BS	Boundary Post or Stone	PO	Post Office	
Cn, C	Capstan, Crane	PC	Public Convenience	
Chy	Chimney	PH	Public House	
D Fn	Drinking Fountain	Pp	Pump	
EI P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge	
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light	
FB	Foot Bridge	Spr	Spring	
GP	Guide Post	Tk	Tank or Track	
H	Hydrant or Hydraulic	TCB	Telephone Call Box	
LC	Level Crossing	TCP	Telephone Call Post	
MH	Manhole	Tr	Trough	
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap	
MS	Mile Stone	W	Well	
NTL	Normal Tidal Limit	Wd Pp	Wind Pump	

	Cliff		Slopes		Top
	Rock		Rock (scattered)		Boulders (scattered)
	Boulders		Positioned Boulder		Scree
	Non-Coniferous Tree (surveyed)		Coniferous Tree (surveyed)		Non-Coniferous Trees (not surveyed)
	Non-Coniferous Trees (not surveyed)		Coniferous Trees (not surveyed)		Orchard Tree
	Orchard Tree		Scrub		Bracken
	Coppice, Osier		Reeds		Marsh, Saltings
	Rough Grassland		Heath		Culvert
	Direction of water flow		Triangulation Station		Antiquity (site of)
	Electricity Transmission Line		Electricity Pylon		Bench Mark
	Bench Mark		Buildings with Building Seed		Roofed Building
	Roofed Building		Glazed Roof Building		Civil parish/community boundary
	District boundary		County boundary		Boundary post/stone
	Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)				
Bks	Barracks	P	Pillar, Pole or Post		
Bty	Battery	PO	Post Office		
Cemy	Cemetery	PC	Public Convenience		
Chy	Chimney	Pp	Pump		
Cis	Cistern	Ppg Sta	Pumping Station		
Dismtd Rly	Dismantled Railway	PW	Place of Worship		
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station		
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge		
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light		
FB	Filter Bed	Spr	Spring		
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track		
Gas Gov	Gas Valve Compound	Tr	Trough		
GVC	Gas Governor	Wd Pp	Wind Pump		
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap		
MH	Manhole	Wks	Works (building or area)		
MP, MS	Mile Post or Mile Stone	W	Well		

Mapping Type	Scale	Date	Pg
Denbighshire	1:2,500	1899	2
Denbighshire	1:2,500	1912	3
Denbighshire	1:2,500	1937	4
Ordnance Survey Plan	1:1,250	1958 - 1959	5
Additional SIMs	1:1,250	1959 - 1990	6
Ordnance Survey Plan	1:2,500	1960	7
Ordnance Survey Plan	1:1,250	1966 - 1979	8
Ordnance Survey Plan	1:1,250	1975 - 1984	9
Additional SIMs	1:1,250	1988 - 1990	10
Additional SIMs	1:1,250	1990	11
Large-Scale National Grid Data	1:1,250	1992	12
Large-Scale National Grid Data	1:1,250	1994	13
Large-Scale National Grid Data	1:1,250	1996	14

Order Number: 130802749_1_1
Customer Ref: 525.02
National Grid Reference: 333750, 350680
Slice: A
Site Area (Ha): 1.1
Search Buffer (m): 100

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LL12 7BW

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Denbighshire

Published 1899

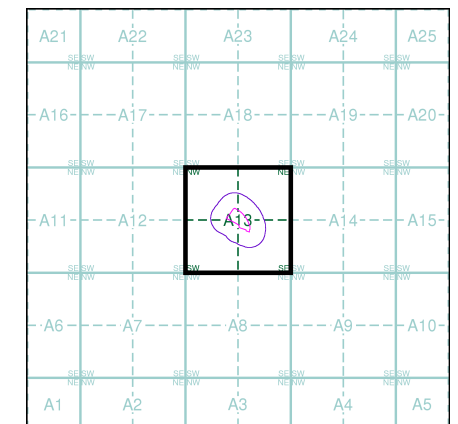
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

028_08
1899
1:2,500
028_12
1899
1:2,500

Historical Map - Segment A13

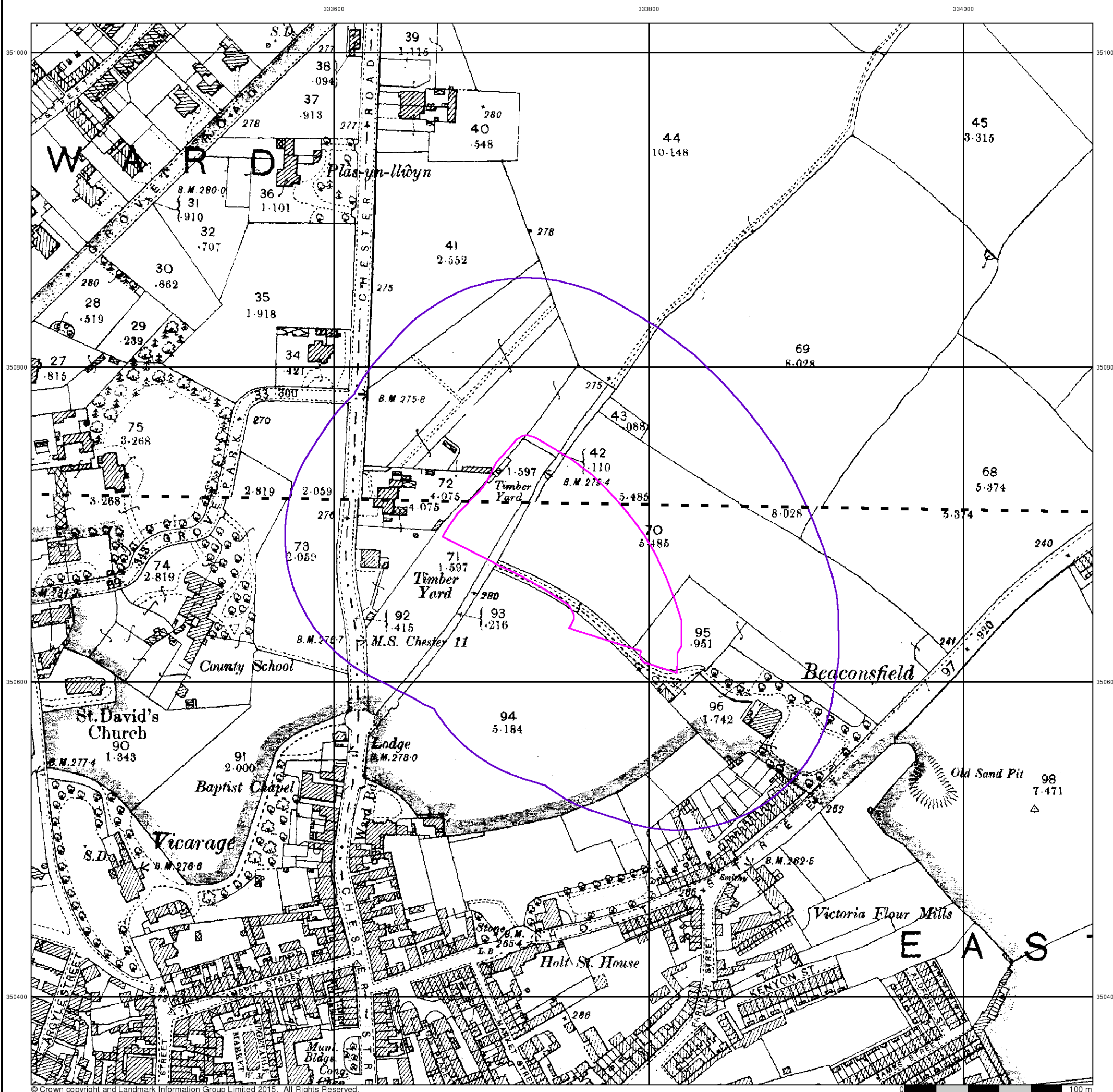


Order Details

Order Number: 130802749_1_1
 Customer Ref: 525.02
 National Grid Reference: 333750, 350680
 Slice: A
 Site Area (Ha): 1.1
 Search Buffer (m): 100

Site Details

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Denbighshire

Published 1912

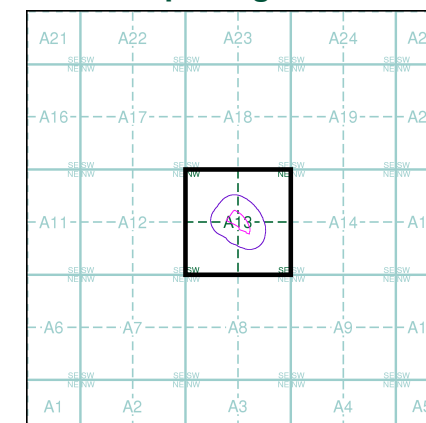
Source map scale - 1:2,500

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)

028_08
1912
1:2,500
028_12
1912
1:2,500

Historical Map - Segment A13

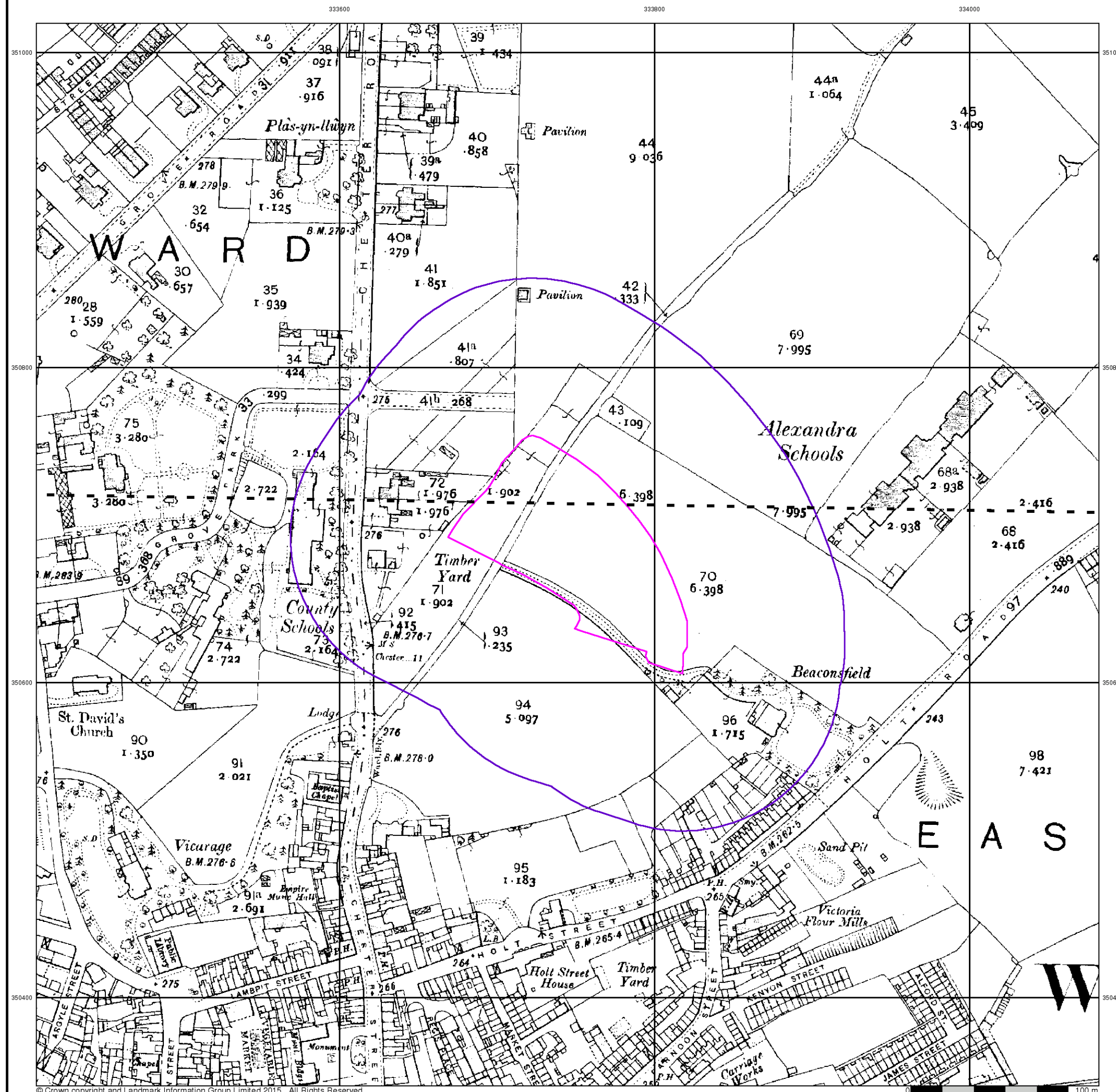


Order Details

Order Number: 130802749_1_1
 Customer Ref: 525.02
 National Grid Reference: 333750, 350680
 Slice: A
 Site Area (Ha): 1.1
 Search Buffer (m): 100

Site Details

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Denbighshire

Published 1937

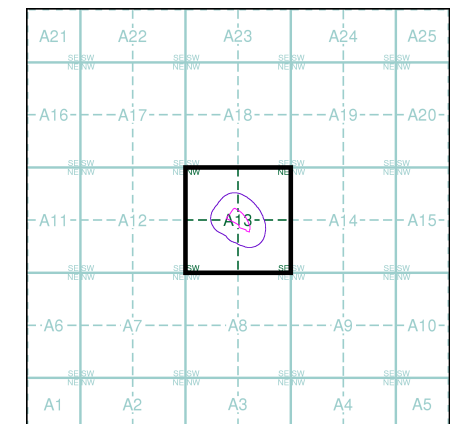
Source map scale - 1:2,500

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)

028_08
1937
1:2,500
028_12
1937
1:2,500

Historical Map - Segment A13

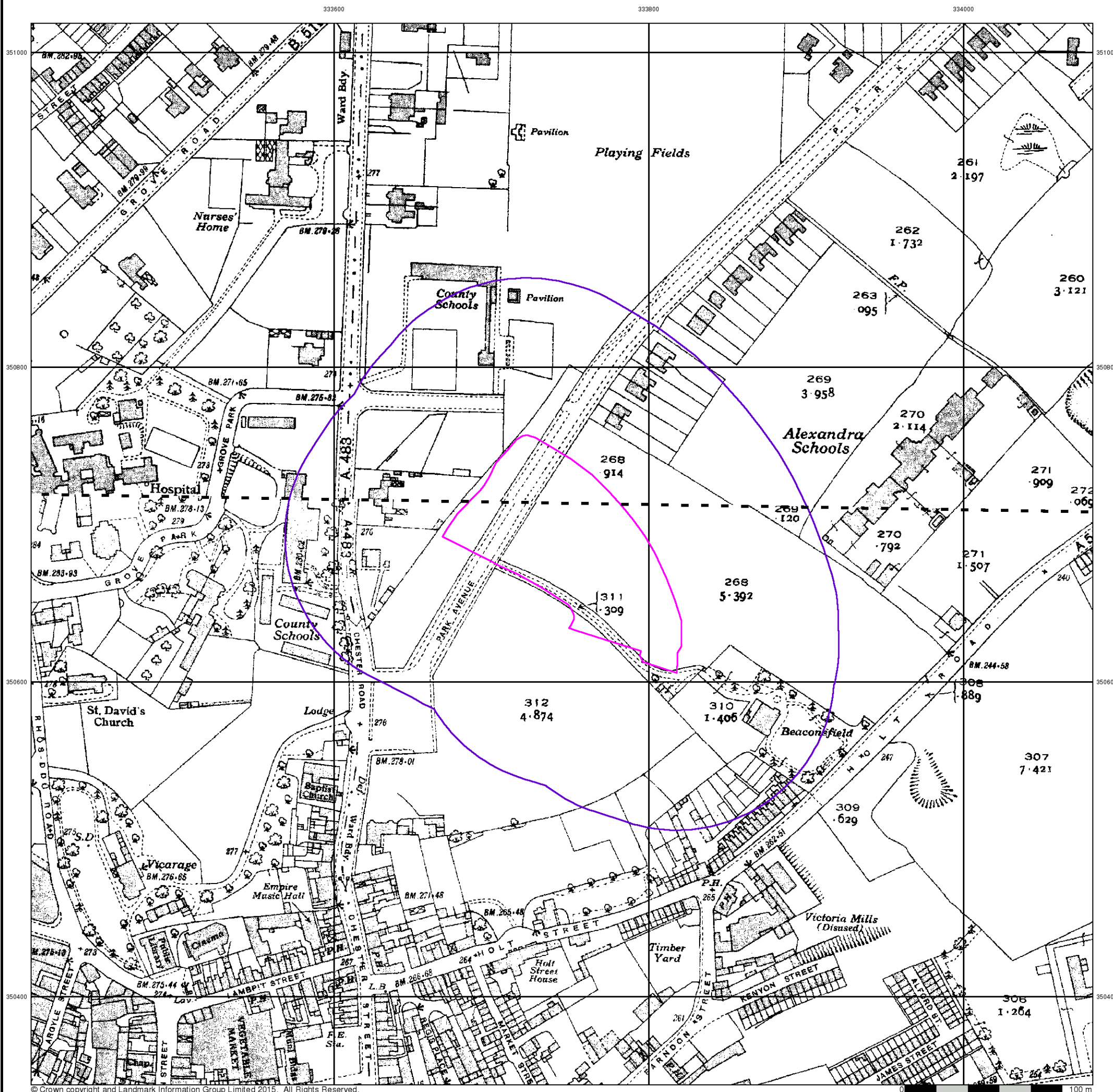


Order Details

Order Number: 130802749_1_1
 Customer Ref: 525.02
 National Grid Reference: 333750, 350680
 Slice: A
 Site Area (Ha): 1.1
 Search Buffer (m): 100

Site Details

North Wales Police, Police Station, Bodhyfryd, WREXHAM, LL12 7BW



Ordnance Survey Plan

Published 1958 - 1959

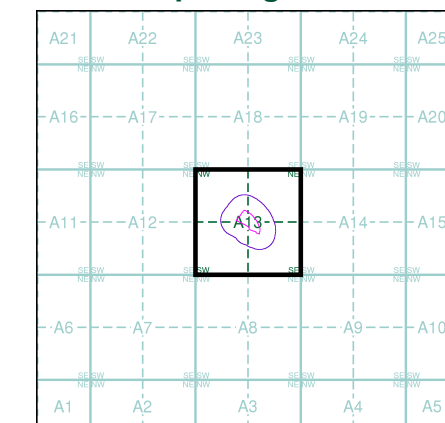
Source map scale - 1:1,250

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)

SJ3351SW	SJ3351SE	SJ3451SW
1958	1959	1959
1:1,250	1:1,250	1:1,250
SJ3350NW	SJ3350NE	SJ3450NW
1958	1958	1959
1:1,250	1:1,250	1:1,250
SJ3350SW	SJ3350SE	SJ3450SW
1958	1958	1959
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13

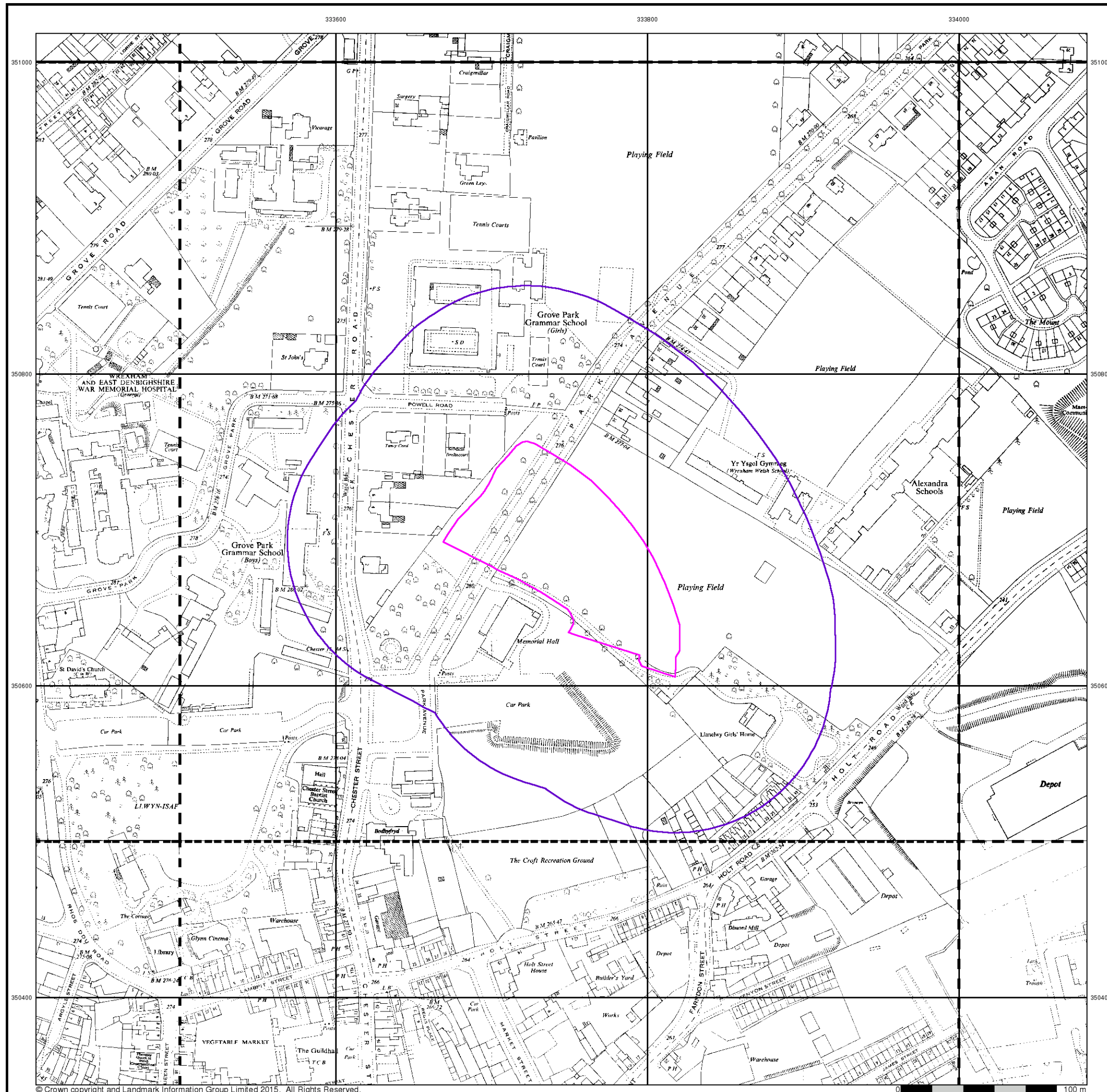


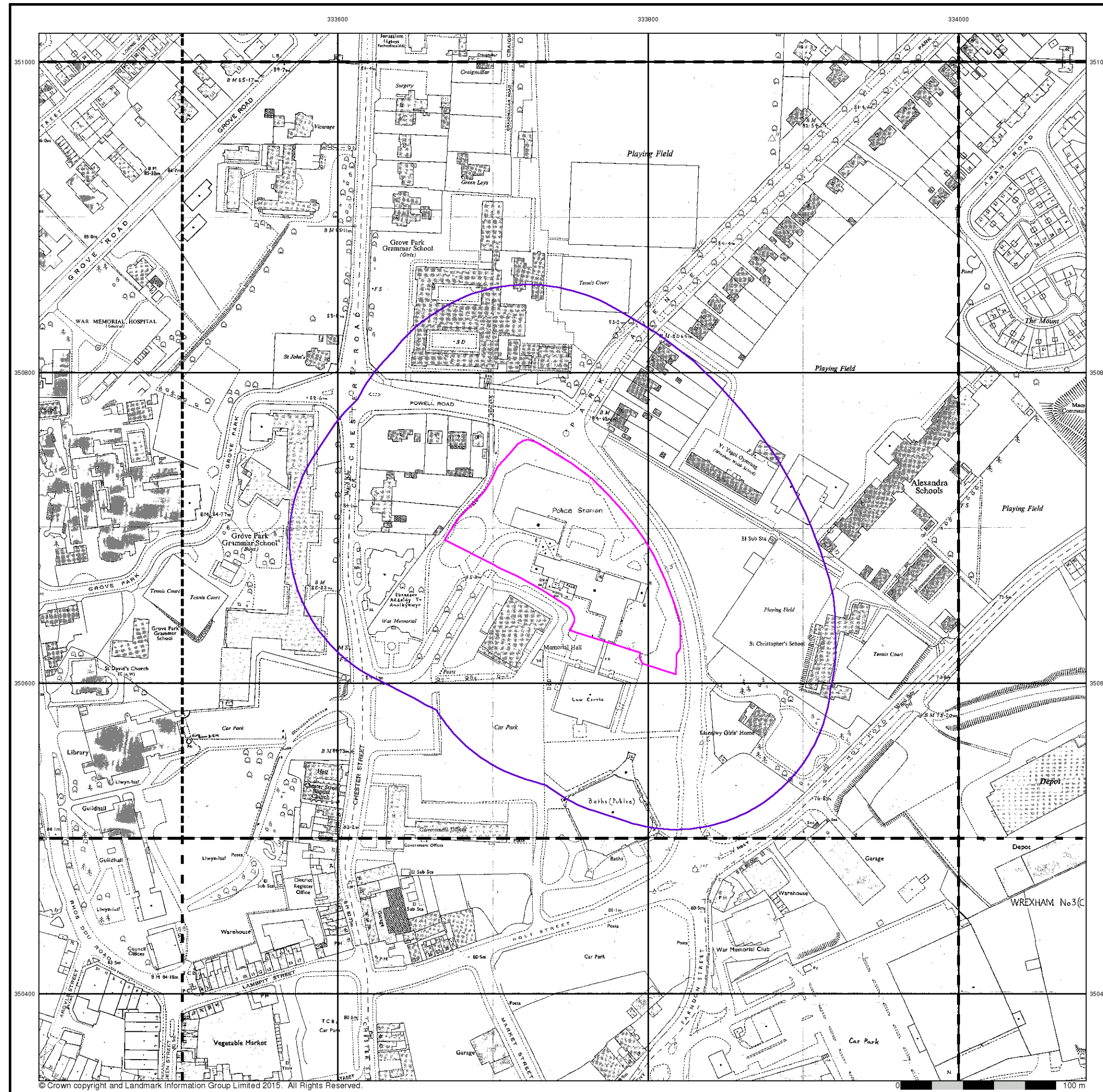
Order Details

Order Number: 130802749_1_1
 Customer Ref: 525.02
 National Grid Reference: 333750, 350680
 Slice: A
 Site Area (Ha): 1.1
 Search Buffer (m): 100

Site Details

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Additional SIMs

Published 1959 - 1990

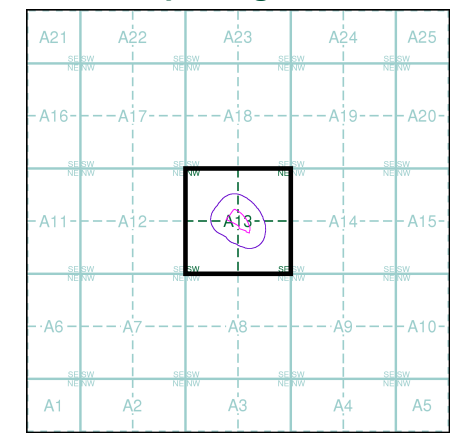
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

5J3351SW	5J3351SE	5J3451SW
1990	1990	1990
1:1,250	1:1,250	1:1,250
5J3350NW	5J3350NE	5J3450NW
1988	1978	1959
1:1,250	1:1,250	1:1,250
5J3350SW	5J3350SE	5J3450SW
1988	1978	1989
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

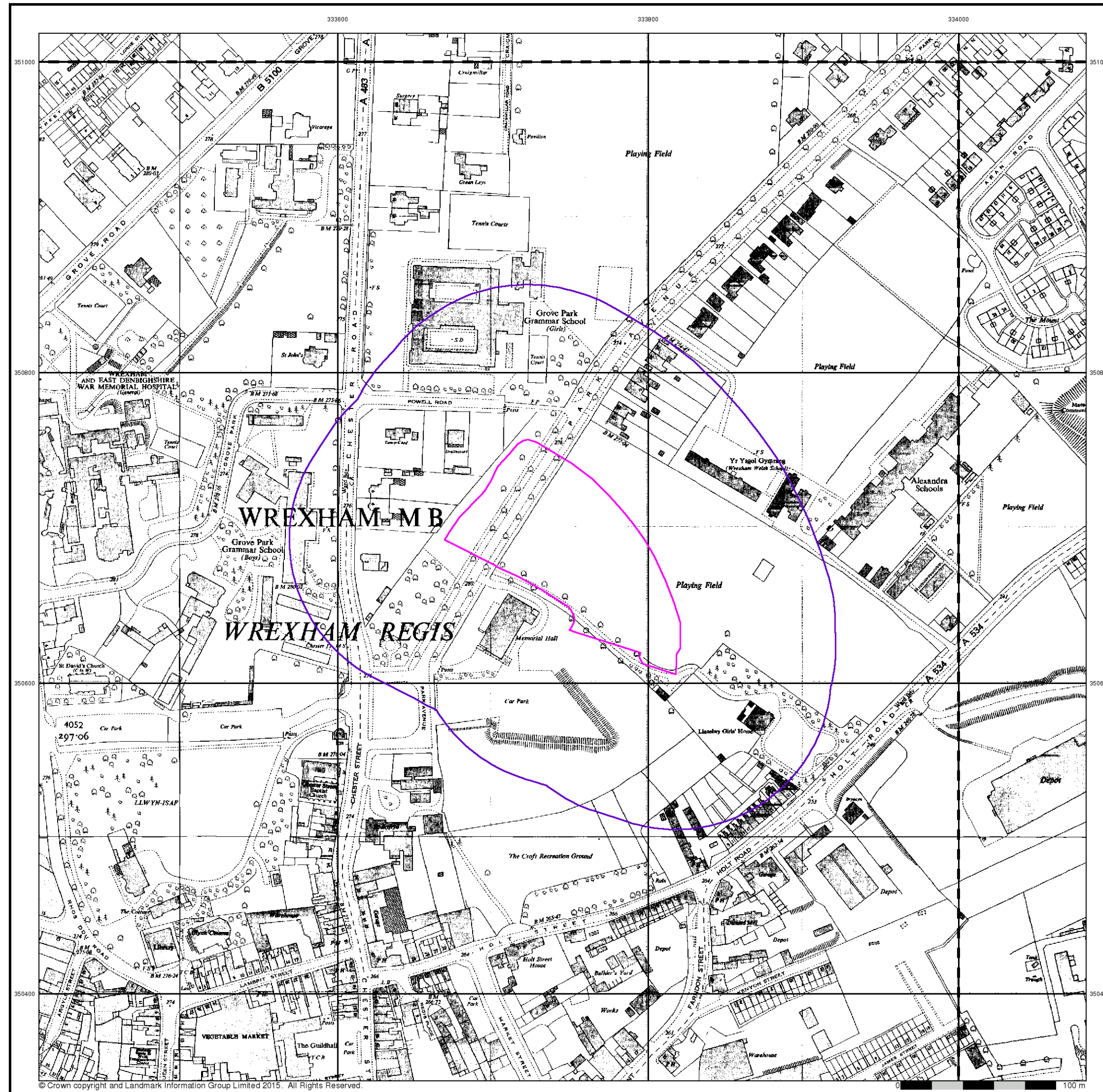
Order Number: 130802749_1_1
Customer Ref: 525.02
National Grid Reference: 333750, 350680
Slice: A
Site Area (Ha): 1.1
Search Buffer (m): 100

Site Details

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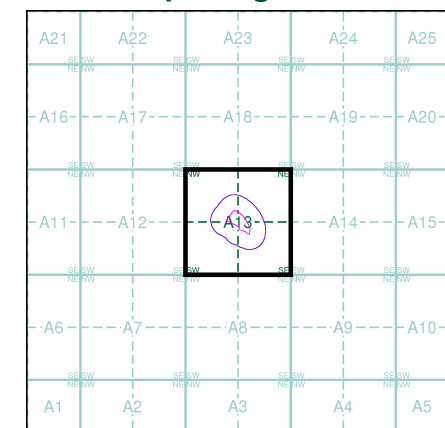
Ordnance Survey Plan
Published 1960
Source map scale - 1:2,500

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)

SJ3351	SJ3451
1960	1960
12,500	12,500
SJ3350	SJ3450
1960	1960
12,500	12,500

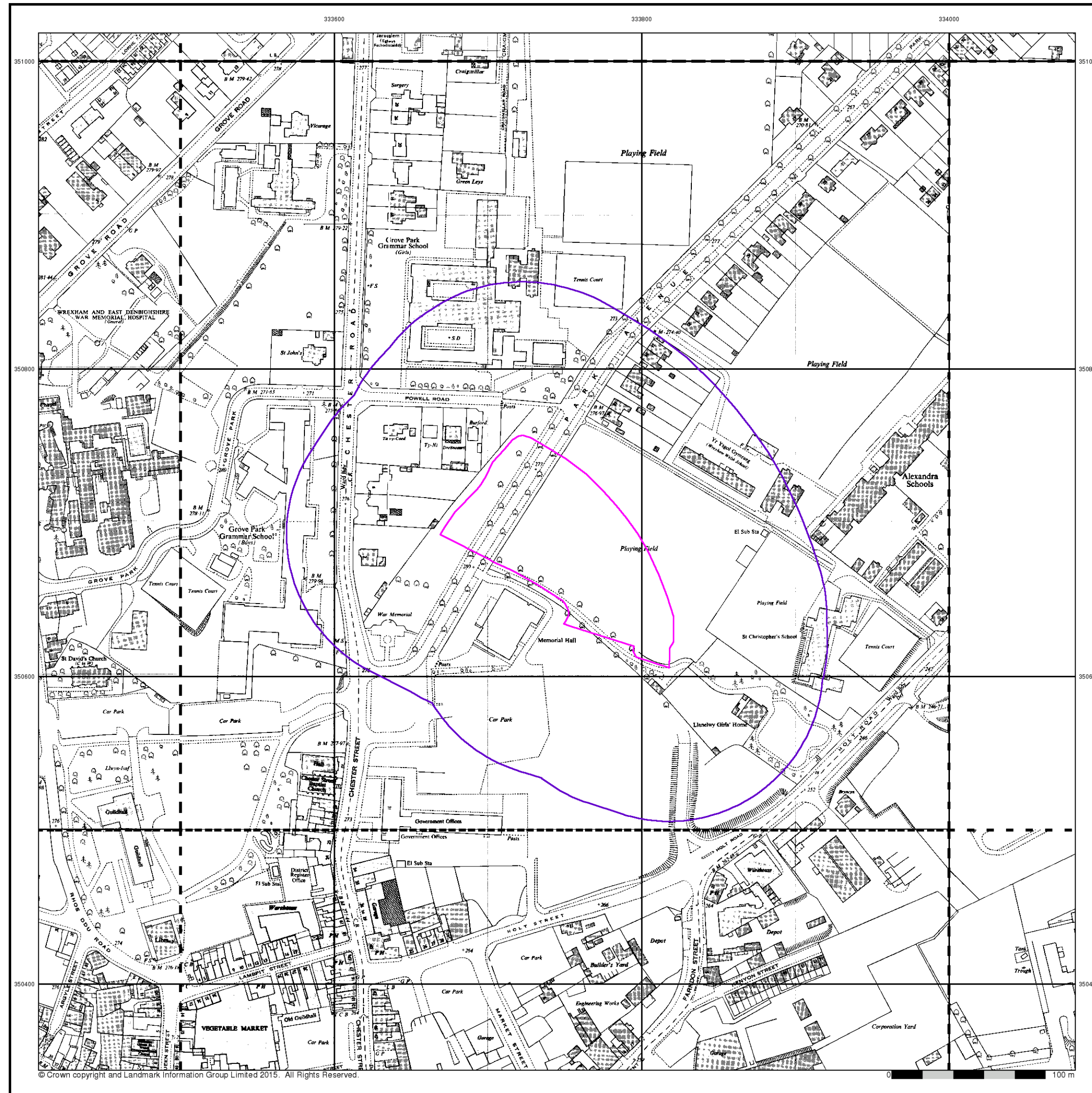
Historical Map - Segment A13



Order Details
Order Number: 130802749_1_1
Customer Ref: 525.02
National Grid Reference: 333750, 350680
Slice: A
Site Area (Ha): 1.1
Search Buffer (m): 100

Site Details
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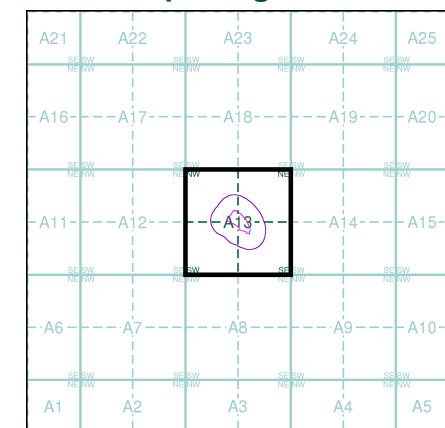
Ordnance Survey Plan Published 1966 - 1979 Source map scale - 1:1,250

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)

SJ3351SW	SJ3351SE	SJ3451SW
1973	1974	1979
1:1,250	1:1,250	1:1,250
-		
SJ3350NW	SJ3350NE	
1968	1968	
1:1,250	1:1,250	
-		
SJ3350SW	SJ3350SE	SJ3450SW
1968	1968	1966
1:1,250	1:1,250	1:1,250
-		

Historical Map - Segment A13



Order Details
Order Number: 130802749_1_1
Customer Ref: 525.02
National Grid Reference: 333750, 350680
Slice: A
Site Area (Ha): 1.1
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1975 - 1984

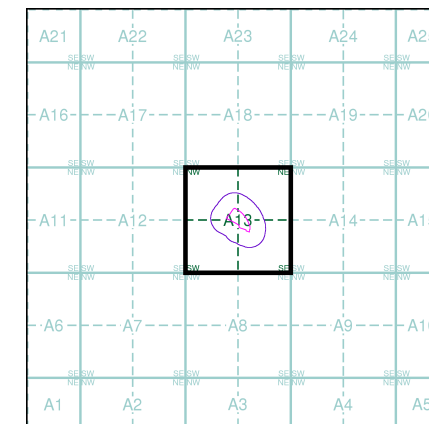
Source map scale - 1:1,250

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)

SJ3350NE 1984 1:1,250		
SJ3350SW 1975 1:1,250	SJ3350SE 1975 1:1,250	SJ3450SW 1978 1:1,250

Historical Map - Segment A13



Order Details

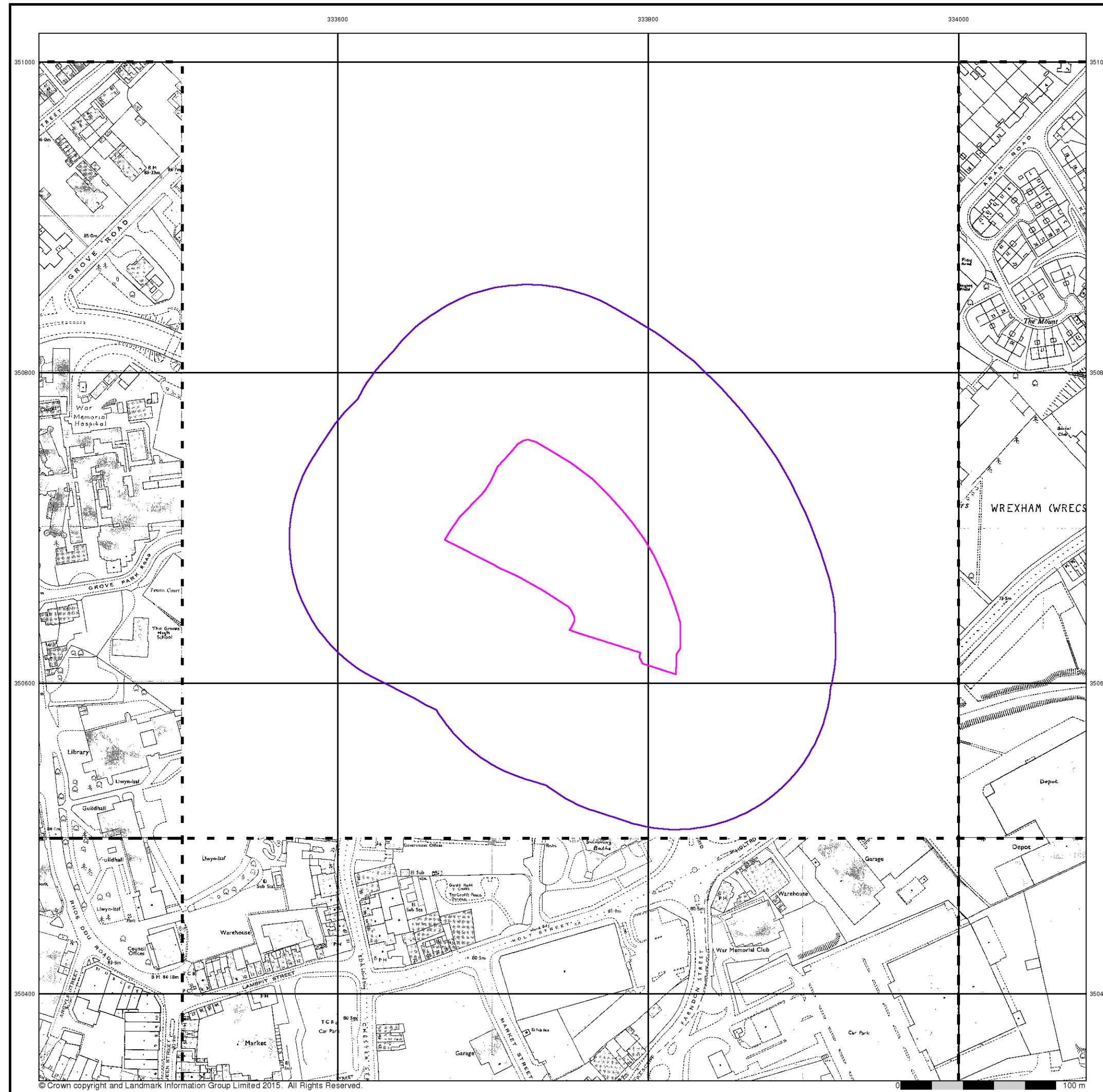
Order Number: 130802749_1_1
Customer Ref: 525.02
National Grid Reference: 333750, 350680
Slice: A
Site Area (Ha): 1.1
Search Buffer (m): 100

Site Details

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Additional SIMs

Published 1988 - 1990

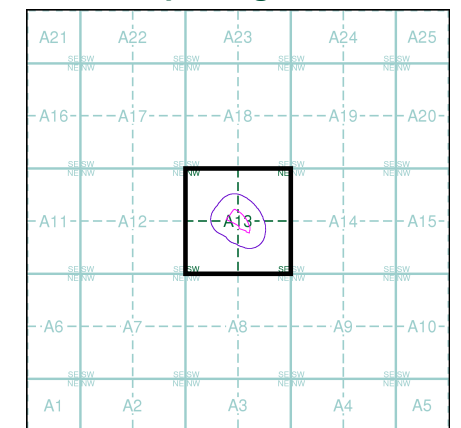
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ3350NW 1988 1:1,250		SJ3450NW 1990 1:1,250
SJ3350SW 1990 1:1,250	SJ3350SE 1990 1:1,250	SJ3450SW 1990 1:1,250

Historical Map - Segment A13

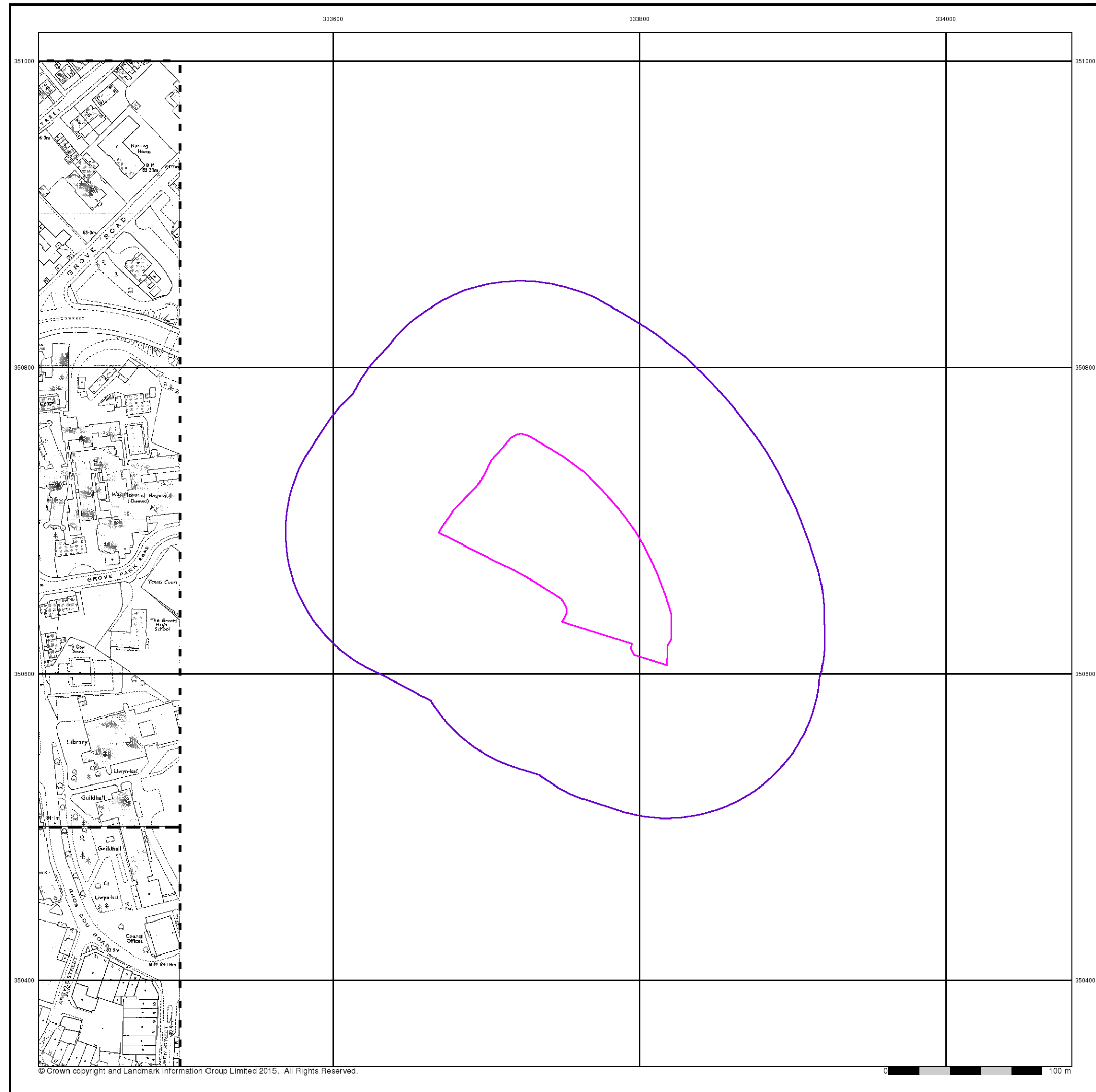


Order Details

Order Number: 130802749_1_1
Customer Ref: 525.02
National Grid Reference: 333750, 350680
Slice: A
Site Area (Ha): 1.1
Search Buffer (m): 100

Site Details

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Additional SIMs

Published 1990

Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ3350NW	
1990	
1:1,250	
SJ3350SW	
1990	
1:1,250	

Historical Map - Segment A13

Order Details

Order Number:	130802749_1_1
Customer Ref:	525.02
National Grid Reference:	333750, 350680
Slice:	A
Site Area (Ha):	1.1
Search Buffer (m):	100

Site Details

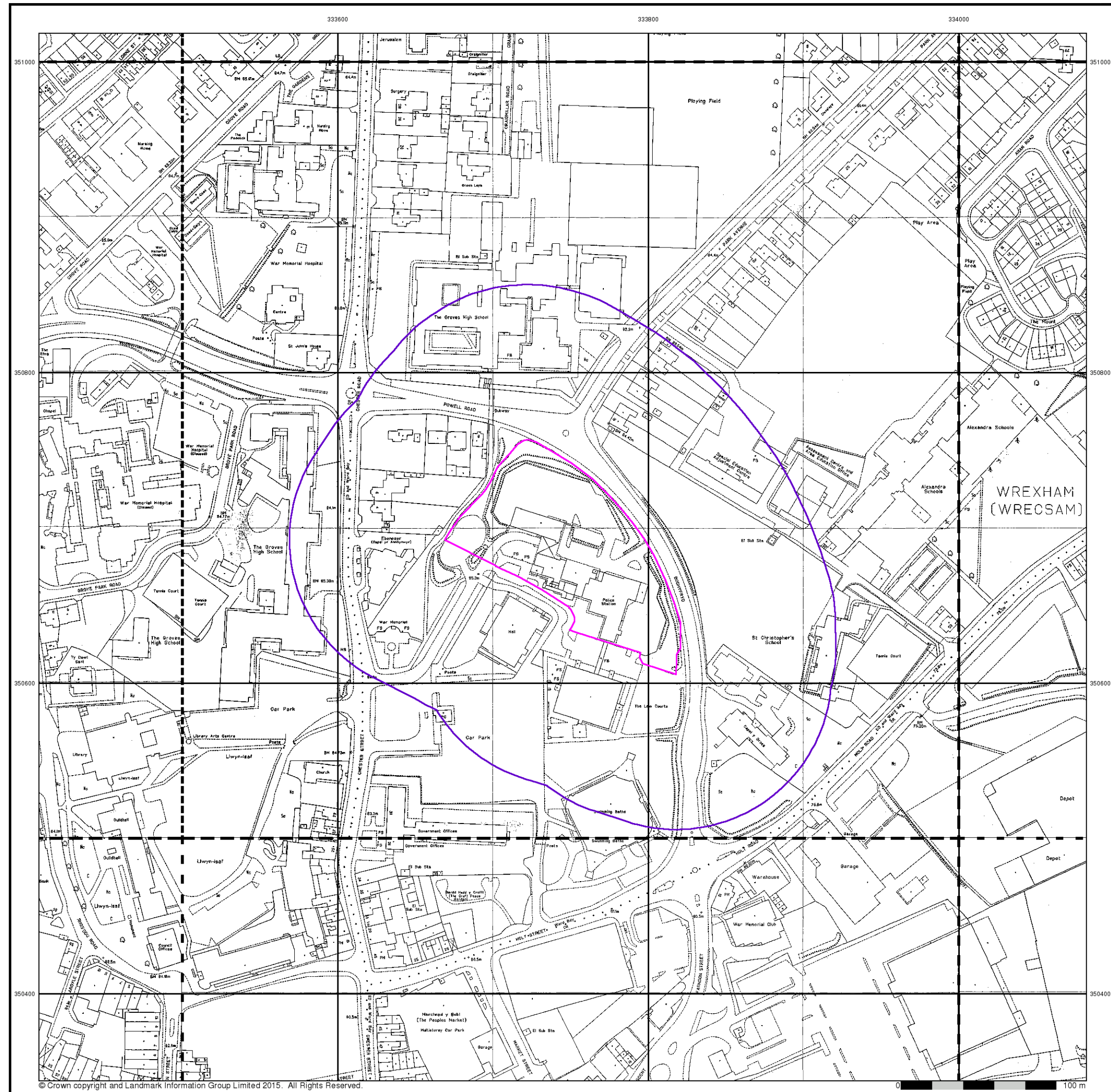
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Large-Scale National Grid Data

Published 1992

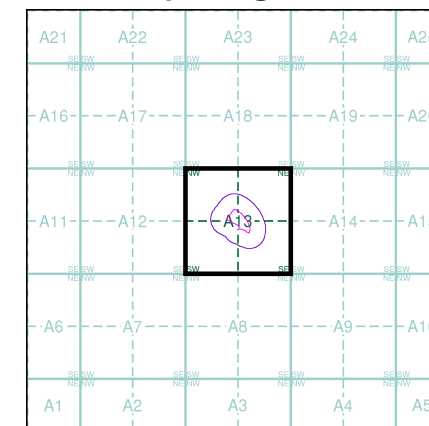
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ3351SW	SJ3351SE	SJ3451SW
1992	1992	1992
1:1,250	1:1,250	1:1,250
SJ3350NW	SJ3350NE	SJ3450NW
1992	1992	1992
1:1,250	1:1,250	1:1,250
SJ3350SW	SJ3350SE	SJ3450SW
1992	1992	1992
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

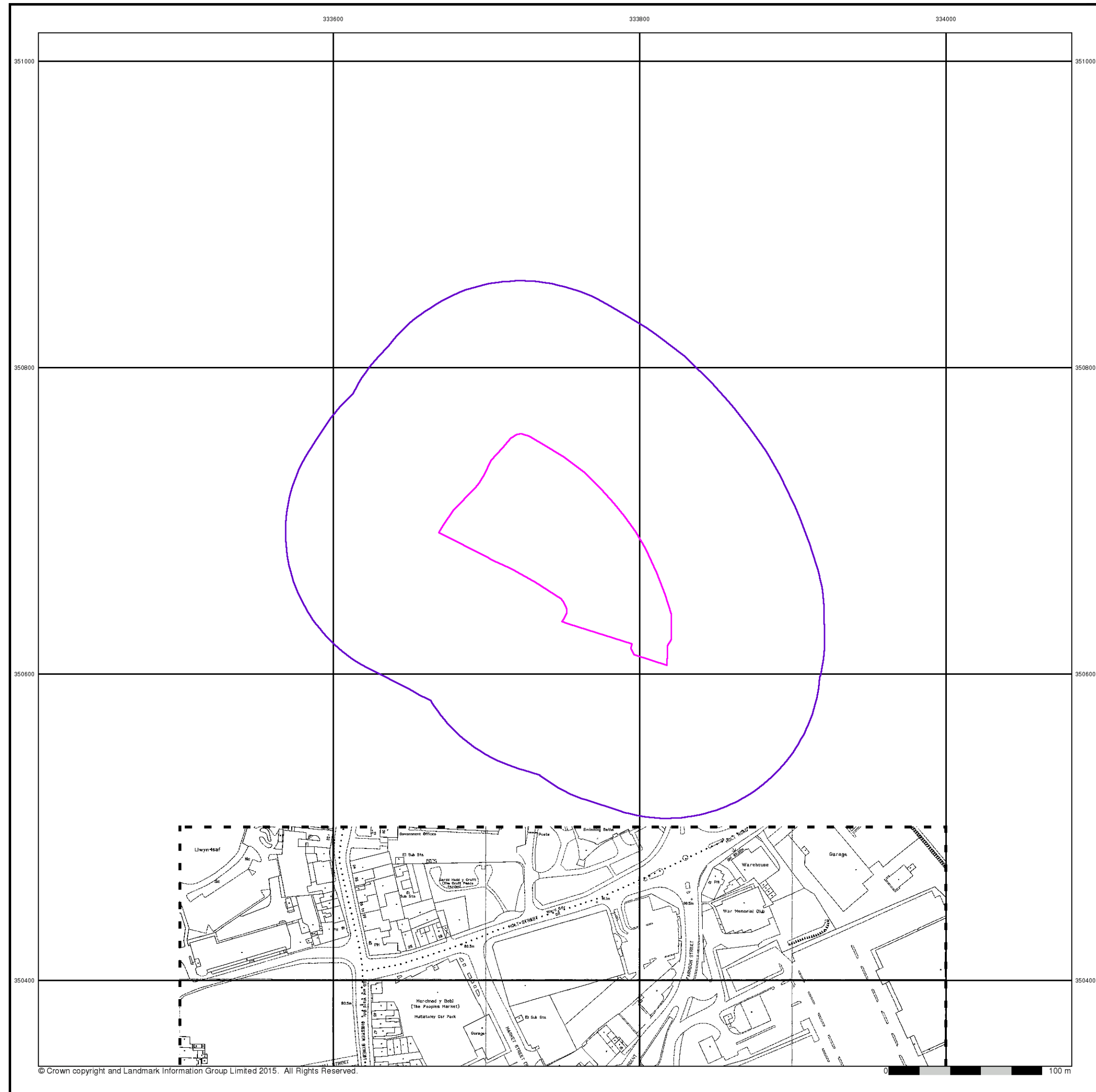
Order Number: 130802749_1_1
Customer Ref: 525.02
National Grid Reference: 333750, 350680
Slice: A
Site Area (Ha): 1.1
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1994

Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ3350SE
1994
1:1,250

Historical Map - Segment A13

A21	A22	A23	A24	A25
A16	A17	A18	A19	A20
A11	A12	A13	A14	A15
A6	A7	A8	A9	A10
A1	A2	A3	A4	A5

Order Details

Order Number:	130802749_1_1
Customer Ref:	525.02
National Grid Reference:	333750, 350680
Slice:	A
Site Area (Ha):	1.1
Search Buffer (m):	100

Site Details

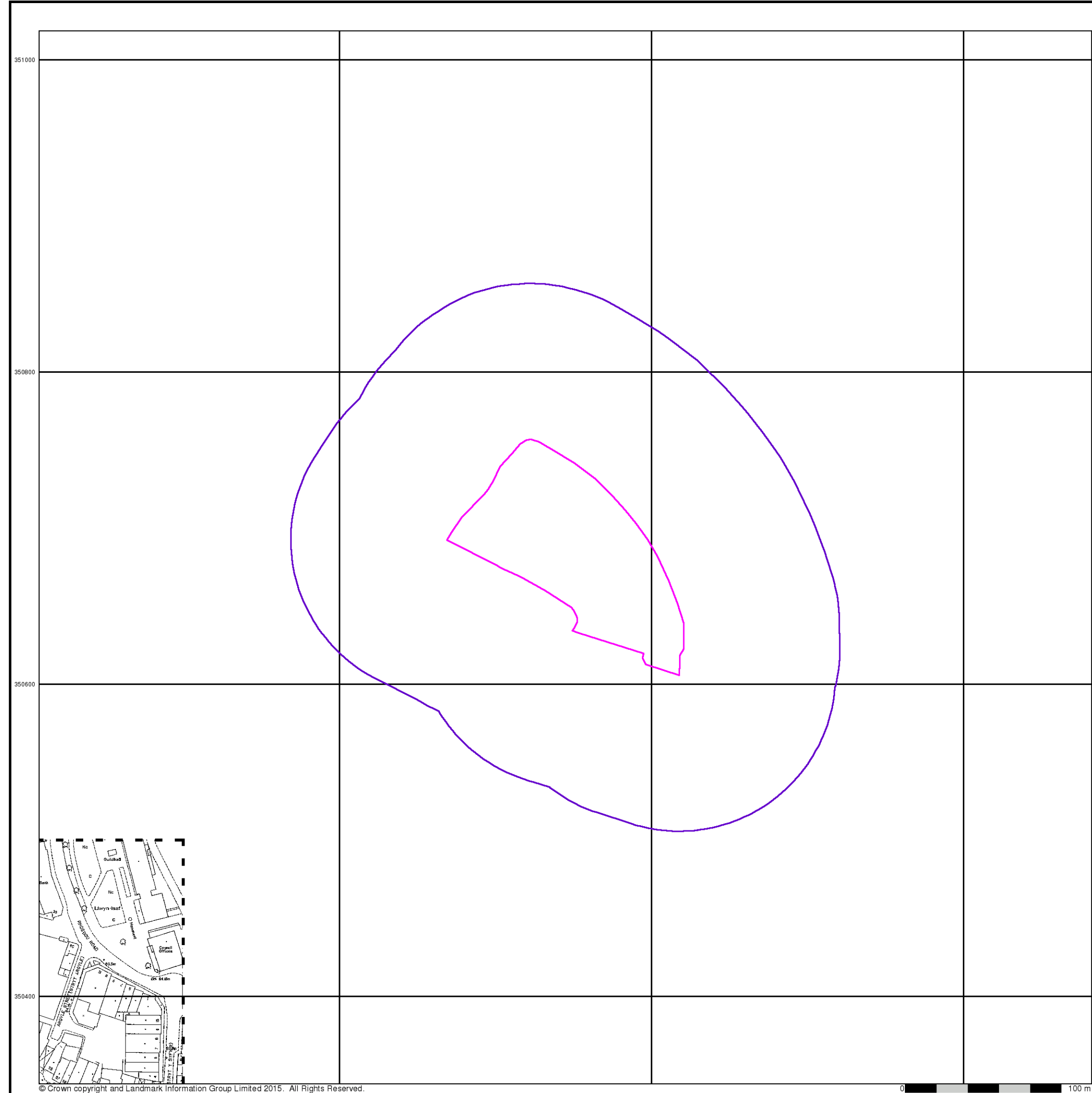
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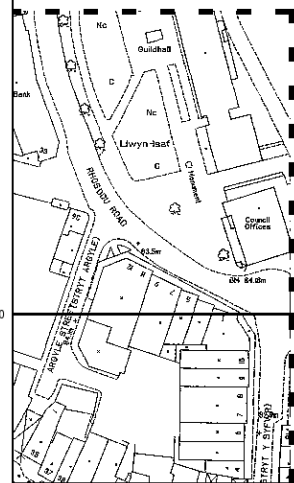


351000

350800

350600

350400



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0 100 m

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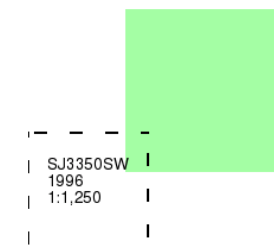
Large-Scale National Grid Data

Published 1996

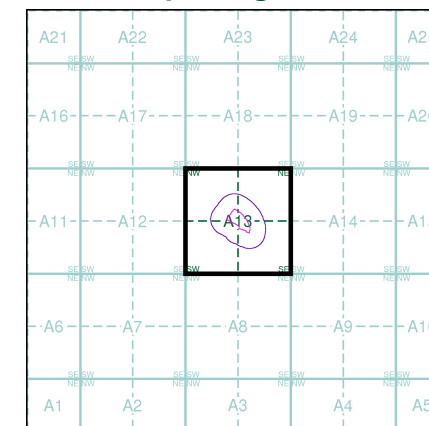
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 130802749_1_1
Customer Ref: 525.02
National Grid Reference: 333750, 350680
Slice: A
Site Area (Ha): 1.1
Search Buffer (m): 100

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

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

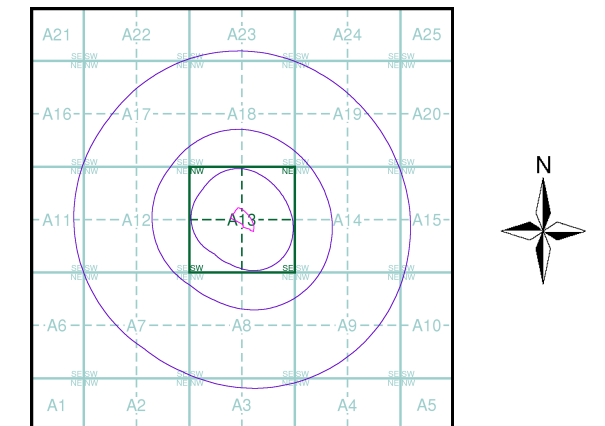
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Denbighshire	1:10,560	1879	2
Cheshire	1:10,560	1881	3
Denbighshire	1:10,560	1900	4
Denbighshire	1:10,560	1915	5
Denbighshire	1:10,560	1938	6
Denbighshire	1:10,560	1938	7
Denbighshire	1:10,560	1954	8
Ordnance Survey Plan	1:10,000	1964	9
Ordnance Survey Plan	1:10,000	1968	10
Ordnance Survey Plan	1:10,000	1974 - 1979	11
Ordnance Survey Plan	1:10,000	1981 - 1983	12
Ordnance Survey Plan	1:10,000	1988	13
Ordnance Survey Plan	1:10,000	1990 - 1993	14
Ordnance Survey Plan	1:10,000	1992	15
10K Raster Mapping	1:10,000	2000	16
Street View	Variable		17

Historical Map - Slice A



Order Details

Order Number: 130802749_1_1
Customer Ref: 525.02
National Grid Reference: 333750, 350680
Slice: A
Site Area (Ha): 1.1
Search Buffer (m): 1000

Site Details

North Wales Police, Police Station, Bodhyfryd, WREXHAM, LL12 7BW

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