SP ASSOCIATES

PHASE I ASSESSMENT
PROPOSED INDUSTRIAL UNIT
OAK ROAD
WREXHAM INDUSTRIAL ESTATE

Client: FI Real Estate Ltd

Report Number: S1916

March 2024

PHASE I ASSESSMENT
PROPOSED INDUSTRIAL UNIT
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WREXHAM INDUSTRIAL ESTATE

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REPORT No S1916

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1. INTRODUCTION

SP Associates (SPA) have been instructed by Barnsley Marshall, Consulting Engineers, on behalf of FI Real Estate Ltd., to carry out a Phase I Desk Study and Preliminary Risk Assessment for a parcel of land located at Oak Road, Wrexham Industrial Estate, Wrexham LL13 9RG.

The site currently comprises an area of woodland and scrub which we understand will be developed with an industrial unit in the configuration shown on Figure 2.

This report constitutes a preliminary investigation as defined in BS10175 and is predicated upon the following database:

'Envirocheck Report 3398165251_1, Landmark Information Group, March 2024;

Preliminary Unexploded Ordnance Threet Assessment, Report 11155, Alpha Associates, March 2024;

Historical Ordnance Survey Maps, 1873 – 2024, 1:2500, 1:10560 and 1:10,000 scale;

British Geological Survey Geology of Britain Viewer;

Site Walkover Survey, March 2024.

This preliminary risk assessment summarises the Phase I database and concludes with a Conceptual Site Model that delineates potential pollutant sources, pathways and receptors.

2. THE SITE

2.1 SITE DESCRIPTION AND WALKOVER

The site is located about 6Km to the east of Wrexham town centre in the south-eastern quadrant of Wrexham Industrial Estate at approximate National Grid Reference 338590 349380 (Figure 1).

The redevelopment site is essentially flat, approximately 2.8Ha in area and approximates to a rectangle in shape (Figure 2).

The site comprises an area of undeveloped open scrub and woodland which is accessed from the north off Oak Road via a concrete surfaced pathway which traverses the northern part of the site in a south-easterly direction. Photographs of the site access arrangements are enclosed within Appendix D.

The site lies in the south-eastern quadrant of Wrexham Industrial Estate and is bounded to the east by open woodland and scrub along with structures remnant from the Wrexham Royal Ordnance Factory (ROF Wrexham) which manufactured Cordite during World War II. The south-easterly flowing Redwither Brook lis to the south with an Engineering Works to the west. Oak Road lies to the north with a range of industrial, commercial and office developments beyond that.

Upon inspection, the site appeared to be free from external signs of olfactory or visual contamination.

2.2 HISTORY OF SURFACE DEVELOPMENT

Copies of relevant historical Ordnance Survey maps for the site and its immediate surrounds are included within Appendix A. A summary of the site's history based upon the Ordnance Survey map record is provided below:

Date	On-Site Features	Nearby Off-Site Features
1873/ 1879	The site comprised open undeveloped agricultural land traversed from north to south and south-east to north-west by hedgerows. A small pond was located within the north-eastern site quadrant close to its eastern boundary. A footpath traversed the northern part of the site in an east - west direction.	A lane later to become Oak Road lay to the north with agricultural land beyond that and in all other directions. Small ponds were present some 50m to the west, 30m to the north and 100m to the east. The Redwither Brook is located close to the site's southern boundary.
1899	The small pond located in the site's north-eastern quadrant is no longer shown on the map.	The surrounding area remained as shown on the previous map edition.
1954/ 1961	The site is shown as being occupied by a number of structures, bunkers, access roads and hydrants belonging to ROF Wrexham.	Structures, bunkers, access roads and hydrants belonging to ROF Wrexham lie to the east and west. The Redwither Brook, which had been somewhat straightened, lay to the south beyond which are further ROF Wrexham structures and infrastructure. Various works buildings belonging to the Wrexham Industrial Estate lay beyond Oak Road to the north.

1972	The site remains as shown on the previous map edition.	Historical structures associated with ROF Wrexham lay to the east, west and south. A number of new works buildings associated with Wrexham Industrial Estate had been constructed to the north of Oak Road.
1979/ 1982	All structures and infrastructure associated with the former ROF Wrexham had been removed or had been removed from the map.	Oak Road has been realigned to take on its current configuration and some historical structures and infrastructure associated with former ROF Wrexham remained to the east and south. Wrexham Industrial Estate had been expanded to the north and an overhead power line was now present close to the site's eastern boundary..
1990 - 2024	The site remained as a featureless parcel of land.	Further expansion of the Wrexham Industrial Estate had taken place to the north. Electricity substations are located about 20m to the north over Oak Road and about 100m to the west to the south of Redwither Road.

2.3 GEOLOGY

The site is shown on British Geological Survey records as being underlain by solid deposits of the Kinnerton Sandstone of Triassic age which predominantly comprises massive beds of red brown, occasionally yellow brown sandstone.

The geological database indicates that superficial deposits consisting of Diamicton Till of Devensian age overlie the Raglan Mudstone. These glacial deposits consist of clay, silt, sands and gravels.

2.4 UNEXPLODED ORDNANCE

A preliminary Unexploded Ordnance Threat Assessment has been obtained for the site a copy of which is enclosed within Appendix C. That report states that the site comprised part of ROF Wrexham and that it was utilised mostly as an ammunition dump. The factory itself manufactured cordite which was used as an ammunition shell propellant. Given the site's usage the UXO report considers that a UXO threat may exist at the site and it has recommended that a Detailed UXO Threat and Risk Assessment is carried out prior to site investigation works being undertaken.

3 ENVIRONMENTAL SETTING

3.1 HYDROGEOLOGY AND HYDROLOGY

The Kinnerton Sandstone Formation is classified by the Environment Agency (EA) as a Principal Aquifer. These are formations that have high intergranular and/or fracture permeability with the result that they usually provide a high level of water storage and transmission. They may support water supply and/or river baseflow on a strategic scale. The overlying Glacial Deposits are classified as a Secondary Aquifer – undesignated.

The site lies within Zone II (Outer Protection Zone) and Zone II (Total Catchment) of a Source Protection Zone.

There are three Water Abstraction licences within 250m of the site. All of the licences are held by Calypso Soft Drinks for a borehole located about 162m to the south-west.

The nearest significant surface water body is the Redwither Brook which lies about 50m to the south-west.

3.2 FLOOD RISK

The site is considered not to be susceptible to groundwater flooding at surface or from extreme flooding from river or sea. However, land some 30m to the south-west is considered to be susceptible to such flooding. It is not the intention of this report to provide advice on flood risk and it is recommended that specialist advice is sought in that area.

3.3 POLLUTION RISK

The principal potential pollution risks for a 250m radius around the site are summarised as follows:

3.3.1 WASTE AND LANDFILL SITES

- There are 10No. records of Licensed Waste Management Facilities within 250m of the site. Two of the records are held by Alan's Skip Hire (Wales) Ltd. located 114m to the south-west and two are held by Bluestone Chemical Ltd. located 200m to the west. Sterile Technologies Ltd., located 215m to the north hold three licences with Wrexham Clinical Waste Treatment and Transfer Station located 218m to the north holding a further two. The remaining two licences are held by Sita UK Ltd and Eurocare Environmental Services Ltd located 218m and 228m to the north respectively.

- There are no Registered Landfill Sites within 250m of the subject property.

- There are no Registered Waste Transfer Site licences within 250m of the subject property.

- There are 4No. records of Registered Waste Treatment or Disposal Sites within 250m of the subject property. One is held by Aggregates and Equipment Ltd located in Marlborough Road some198m to the north, with a second being held by Trinco Ltd also in Marlborough Road some 227m to the north. Eurocare Environmental Services located some 247m to the north hold the third licence,, with Bluestone Chemicals located 233m to the north holding the fourth.

- There are no records of historical landfill sites within 250m of the site.

- There are 2No. Integrated Pollution Control Waste Sites within 250m of the property. Both are held by Sterile Technologies located in Marlborough Road some 186m to the north.

3.3.2 STATUTORY AUTHORISATIONS

- There is one record of a Local Authority Pollution Prevention and Controls licence for operations carried out within 250m of the site. The licence is held by R C Motors Wrexham Ltd for their garage at Redwither Road some 78m to the north-west.

- There are no records of Integrated Pollution Controls within 250m of the site.

- There are 10No. records of Integrated Pollution Prevention and Control within 250m of the site all of which relate to the Wrexham Clinical Waste Incinerator located in Marlborough Road to the north.

3.3.3 DISCHARGE CONSENTS

- There are 2No. records of Discharge Consents registered within 250m of the site. One is held by Alan's Skip Hire (Wales) Ltd for discharge of site drainage water to the Redwither Brook some 60m to the south-west. The second is held by Manweb for their substation in Marchweil Abbey Road some 211m to the north.

3.3.4 STORAGE OF HAZARDOUS SUBSTANCES

- There are no records of registration of the Notification of Installations Handling Hazardous Substances located within 250m of the site.

- There are no recorded COMAH site within 250m of the study site.

- There are no Planning Hazardous Substance Consents within 250m of the site. the remaining two being held by British Gas located about 40m to the south.

3.3.5 CONTRAVENTIONS

- There are no records of Local Authority Pollution Prevention and Control Enforcements within 250m of the site.

- There are no records of Prosecutions Relating to an Authorised Process within 250m of the site.

- There are no records of Prosecution Relating to Controlled Waters within 250m of the site.

- There are no records on the Substantial Pollution Incident Register within 250m of the site.

3.3.6 POTENTIALLY CONTAMINATIVE USES

- The are no records of potentially contaminative uses for the site itself.
- There are 22No. Contemporary Trade Directory Entries within 250m of the site only 7No. of which are active. The active entries include a car breakdown and recovery service, a brake and clutch manufacturer, a commercial vehicle servicing and repair business, a pest and vermin controller, a medical waste disposal company, a printers and a garage business.
- There are no entries for Historical Tanks and Energy Facilities located within 250m of the site. Some of the maps from the 1980s show the presence of a small sub-station located close to the site's northern boundary.

3.3.7 POTENTIALLY INFILLED LAND

- There are no records of infilled land located within 250m of the site.
- There are no records to suggest that the site itself has been subject to historical infilling activities.

3.3.8 CONTAMINATED LAND REGISTER ENTIRES AND NOTICES

- There are no Contaminated Land Register or Notices within 250m of the site.

3.4 GROUND STABILITY

The Envirocheck environmental report for the site has summarised the potential for ground instability as follows:

Potential Ground Instability Factor	Hazard Potential
Collapsible Ground	No Hazard
Compressible Ground	Very Low
Ground Dissolution	No Hazard
Landslide Risk	Very Low
Running Sand	No Hazard
Shrinking or Swelling Clay	Very Low

3.5 RADON GAS

The Envirocheck Database states that the property lies in an Intermediate Probability Radon Area where between 5% and 10% of homes are above the action level. The report further states that basic radon protection measures will be required for the proposed new development.

4 HAZARD ASSESSMENT AND POTENTIAL CONTAMINANT LINKAGES

The geo-environmental database for the site has identified the following potential environmental and geotechnical hazards and potential contaminant linkages with regard to the proposed development of the site with an industrial unit and associated infrastructure.

4.1 ENVIRONMENTAL HAZARDS

4.1.1 OFF-SITE HAZARDS

4.1.1.1 GROUND GAS

The Envirocheck Environmental Database and the Ordnance Survey Map record indicate that there are no major nearby areas of infilled land or Made Ground although there may be some pockets of such material associated with nearby industrial development sites, most notably to the north over Oak Road. Although there may be some residual amounts of ground gases, principally carbon dioxide, being generated within these materials the volumes and pressures of such are likely to be low.

The 1982 Ordnance Survey map record shows that bunkers associated with ROF Wrexham that were located to the east and west of the site had been removed from the map record and possibly infilled. There are no records available to indicate what materials might have been used to infill the bunkers and it cannot be discounted that the infill material contained a percentage of bio-degradable matter.

Although the volumes of ground gas associated with the above potential off-site sources is likely to be low given the age of the Made Ground and its relatively low volume, the ongoing generation of ground gas from these materials cannot be discounted and the risk associated with gas migration onto the study site is considered to be low to moderate.

4.1.1.2 CONTAMINANT IMPACT TO CONTROLLED WATERS

The Redwither Brook lies a short distance to the south of the site and consequently the likely groundwater flow direction within the area will be to the south. Upstream of the site to the north there are a number of industrial and commercial land uses that could have the potential to impact controlled waters; however, they are all relatively recent developments that have been constructed on former farm land. The Envirocheck Report has detailed that several of these businesses are subject to integrated Pollution Controls and as such uncontrolled releases of contaminants of concern to groundwater are likely to be infrequent. A low risk is considered to be appropriate at this stage for the migration of controlled waters onto the study site. The risk has been assigned on the basis that it is not anticipated that widespread contamination is present to the north and the low permeability nature of the underlying Glacial formation will inhibit contaminant flow near surface.

4.1.1.3 CONTAMINANT IMPACT TO SOIL

The historical Ordnance Survey map record has shown that there is a substation located some 20m to the north of the site over Oak Road. It is possible that impact to soil from this potential off-site source of PCB contamination could have occurred; however, any such impact is likely to be low in volume and localised particularly as PCB use in the UK

was banned in 1981. In this respect a low risk rating has bee ascribed to the potential for off site impact to soil.

4.1.2 ON-SITE HAZARDS

4.1.2.1 SOIL CONTAMINATION AND HUMAN HEALTH

The historical database has indicated that the site was agricultural land prior to being developed as part of ROF Wrexham in the early 1940s. Post-war Ordnance Survey records indicate that the site was occupied by a number of structures, bunkers and hydrants linked by footways which the Preliminary UXO Threat report (Appendix C) has identified as being an ammunition dump. By 1982 the bunkers and structures associated with ROF Wrexham had been removed from the map record and it is likely that any below ground structures such as bunkers were infilled with imported material.

There are no available records to indicate the nature of the infill material and given its age it is possible that the environmental controls in place at the time were limited in extent and scope. In the circumstances potential on-site contaminant sources comprise explosives, such as cordite remnant from the ammunition manufacturing process, and imported Made Ground used to infill and bunkers and other underground structures. In the circumstances, a moderate to high risk has been assigned to the site with regard to soil contaminant impact and risk to human health.

4.1.2.2 GROUND GAS

Available land use data have suggested that there are likely to be imported Made Ground materials on-site particularly within former bunkers and other below ground structures. Any such material is unlikely to have been subject to strict environmental controls and it cannot be discounted that it contains a percentage of bio-degradable matter that could still be generating ground gases, most likely carbon dioxide. On that basis, a moderate risk category has been ascribed to the site for ground gas generation.

4.2 GEOTECHNICAL HAZARDS

4.2.1 MADE GROUND

Made Ground generally possesses poor and variable bearing capacity and settlement characteristics and can represent a hazard to structures if the correct foundation solution is not implemented. There is some historical evidence to suggest that Made Ground materials may be present particularly within former below ground structures and a moderate risk has been assigned to this potential development aspect.

4.2.2 BELOW GROUND STRUCTURES

The site comprised part of ROF Wrexham and the historical map record indicates that it was used specifically as an ammunition dump and that several below ground bunkers may have been present. The presence of these structures represents a moderate to high risk to proposed new structures and there location should be defined and accommodated prior to the design of earthworks, foundations, ground floor slabs and associated infrastructure.

5 POLLUTANT LINKAGES AND PRELIMINARY CSM

The development of a Conceptual Model for the site involves the determination of potential pollutant linkages through the identification of likely sources of contamination from previous and current site uses and the identification of potential targets such as site users and controlled waters.

5.1 ENVIRONMETAL SETTING

The historical and land use database for the site indicates that its environmental setting can be summarised as follows:

- The site was agricultural land prior to being developed as part of ROF Wrexham.
- The site solid geology comprises Kinnerton Sandstone which is a Principal Aquifer.
- There are 2No. licensed water abstractions within 250m of the site.
- The site lies within Zone II and Zone III of a groundwater source protection zone;
- The nearest significant natural water body is the Redwither Brook that lies about 50m to the south-west.
- According to the Envirocheck database the site does not lie within an area that could be affected by groundwater flooding at surface.
- Basic Radon protection measures will be required for the proposed development.

5.2 RISK ASSESSMENT METHODLOGY

The initial conceptual model and preliminary risk assessment are based upon the available archive data for the site and provide an initial qualitative assessment of risk posed to human health and environmental receptors from potential on and off-site sources of contamination as defined within Part IIa of the Environmental Protection Act (1990). For a significant risk to exist, it must be established that contamination has the potential to cause harm to susceptible targets through a pollutant linkage and requires three criteria to be identified at a significant level:

- The presence of substances that may cause harm (Source);
- The presence of a receptor which may be harmed (Target);
- The existence of a plausible pollutant linkage between the source and the target (Pathway).

EA R&D (2008) provides a risk classification system based on consequence and probability. The table below shows a risk matrix in which the likelihood of probability of each pollutant linkage being realised is ranked against the severity of the consequences. The result is the risk classification based upon which risk management actions can be implemented. The individual sources, pathways and receptors identified are assessed against this risk matrix; potential pollutant linkages and associated risks are recorded.

	Severity of Consequence			
	severe	**medium**	**mild**	**minor**

Probability of pollutant linkage	**High likelihood**	Very high risk	High risk	Moderate risk	Moderate to Low risk
	Likely	High risk	Moderate risk	Moderate to Low risk	Low risk
	Low Likelihood	Moderate risk	Moderate to Low risk	Low risk	Very Low risk
	Unlikely	Moderate to Low risk	Low Risk	Very Low risk	Very Low risk

The categories of risk are defined as follows:

Very High Risk: there is a probability that severe harm could arise to a designated receptor from an identified source, or there is evidence that severe harm to a designated receptor is currently occurring;

High Risk: harm is likely to arise to a designated receptor from an identified source;

Low Risk: it is possible that harm could arise to a designated receptor from an identified source, but it is likely that this harm, if realised, would at worst normally be mild;

Very Low Risk: there is a low possibility that harm could arise to the receptor. In the event of such harm being realised it is not likely to be severe.

The following documents provide guidance on the procedures to be adopted for the assessment of contaminated land:

- DEFRA, Model Procedures for the Management of Land Contamination, Contamination Land Report 11.
- DEFRA, The Contaminated Land Exposure Model (CLEA): Technical Basis and Algorithms, R & D Publication CLR 10
- EA, Land Contamination and Risk Management LCRM).

Based upon the above guides and the hazards identified by the geo-environmental database, an initial Conceptual Site Model (CSM) has been compiled a copy of which is enclosed in tabulated form in Appendix E.

6 PROPOSED SCOPE OF INVESTIGATIVE WORK

The following scope of investigative and analytical work is proposed in order to determine the nature and severity of the potential pollutant linkages defined in the CSM and to assess the nature of the geotechnical development constraints. The CSM will be further refined through intrusive investigation, testing and monitoring to facilitate the development of a remediation and development strategy for the site. The proposed intrusive ground investigation is based upon current contaminated land site investigation guidance including BS10175:2001 Code of Practice for Investigation of Potentially Contaminated Sites and BS5930:1999 Code of Practice for Site Investigations and the Environment Agency's current best practice.

6.1 CONTROLLED WATERS ASSESSMENT

The CSM has identified that the on-site risks associated with potentially contaminated groundwater originating off-site are low and consequently there are no proposals to carry out a specific controlled waters risk assessment with respect to the groundwater system. However, where the water table is intercepted by intrusive boreholes representative samples will be taken and tested in the laboratory for a range of UK Drinking Water parameters. The results will be assessed qualitatively against GAC parameters and a further judgement made as to the requirement for a quantitative analysis.

6.2 SOIL CONTAMINATION ASSESSMENT

The initial CSM suggests that there are likely to be Made Ground deposits at the site that could be somewhat contaminated depending upon their source. It is also possible that some explosive residues could be present.

The proposed scope of works to investigate potential issues of soil contamination include:

- The sinking of window sampler boreholes to retrieve continuous liner soil samples. Each liner will be logged and representative samples retained for laboratory testing.

- Representative soil samples will be tested for a range of contaminants of concern. The analytical suite will include where appropriate the following determinants: heavy metals, speciated Total Petroleum Hydrocarbons, PAHs, selected inorganics and phenols. Selected samples to be subject to testing for explosives and PCBs. Testing to be carried out in a UKAS/MCERTS accredited laboratory.

6.3 GROUND GAS ASSESSMENT

The initial CSM suggests that there may be Made Ground deposits on site and also off site that could be generating ground gases and the proposed scope of works to assess the gas regime is as follows:

- The installation of gas monitoring standpipe within selected window sampler boreholes.

- Completion of a minimum of 6 no. monitoring rounds to measure the following parameters: Concentrations of methane, carbon dioxide, oxygen, hydrogen sulphide and carbon monoxide along with volatile vapours, borehole gas pressures, borehole flow rates and atmospheric pressure.

- Ground gas data to be assessed using the recommendations of CIRIA 365. And a Characteristic situation to be defined for the site

6.4 GEOTECHNICAL ASSESSMENT

Previously identified geotechnical development constraints include the possible presence of Made Ground overlying Glacial Superficial Deposits and possible below ground structures.

The proposed scope of geotechnical assessment works is as follows:

- Utilisation of window sampler boreholes for in-situ SPT testing and bulk/disturbed soil sample recovery for laboratory testing;
- Trial pitting to expose near surface soils and to facilitate bulk soil sampling.
- Testing in the laboratory for index properties and gradings.
- Soakaway testing to BRE 365 standards to provide surface water drainage design parameters.
- In-situ CBR testing to facilitate pavement design.
- Searches for a potential underground structures such as bunkers using ground probing radar.

6.5 PHASE II REPORT

The findings of the investigation will be assessed and presented in a Phase II factual and interpretative report. The report will include;

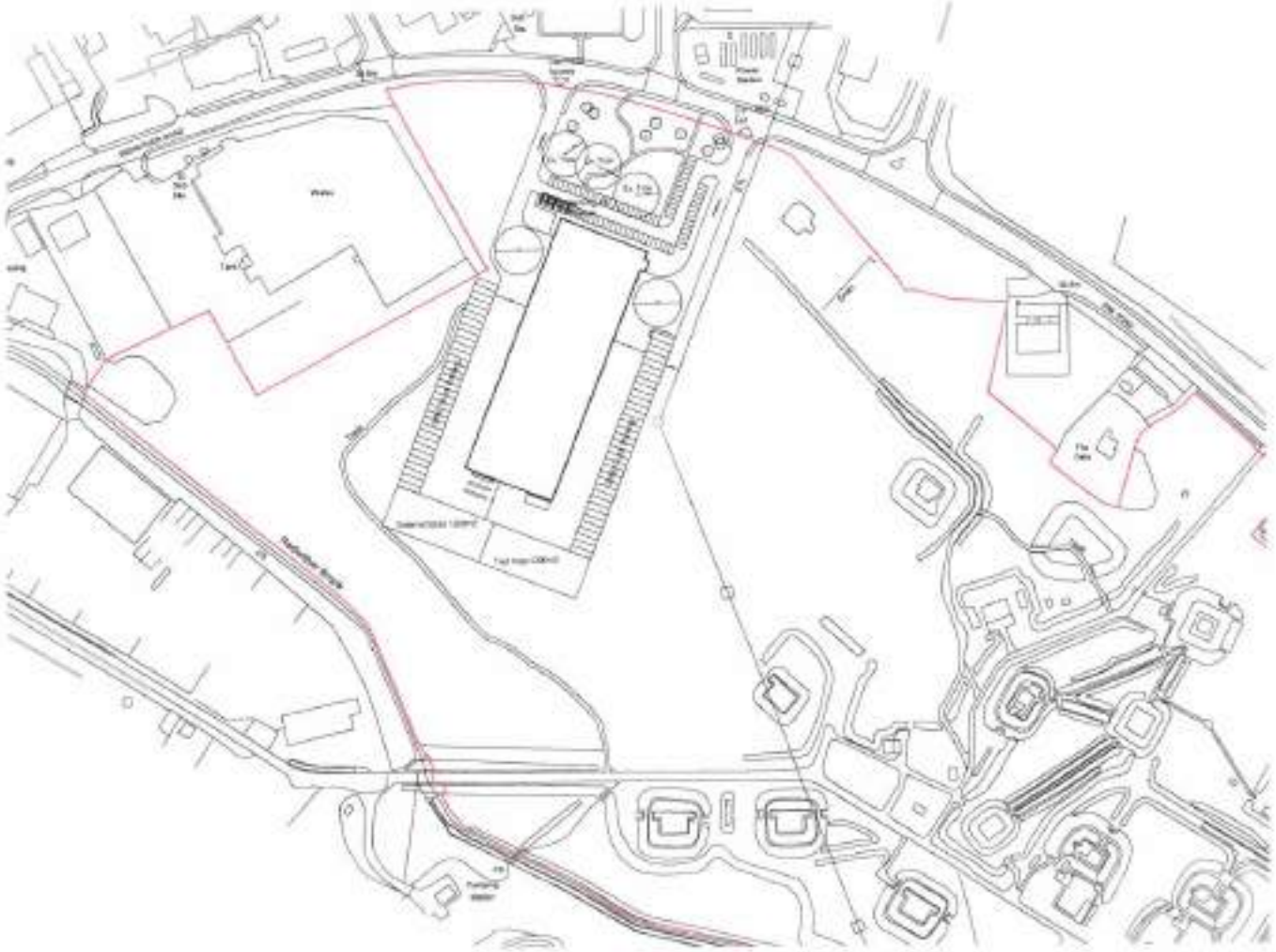
- The amended CSM resulting from the Phase II assessment;
- The presentation of all site investigation, monitoring data and test results;
- The interpretation of soil contamination data relative to proposed site end use;
- The assessment of contaminant impact to controlled waters using groundwater test data from the laboratory;
- The assessment of groundwater depth monitoring data;
- The assessment of ground gas monitoring data carried out in accordance with CIRIA C665 and recommendations with regard to Characteristic Situation status for the development area;
- The development of a preliminary soil remediation and/or controlled waters remediation strategy should one be required;
- Geotechnical recommendations with regard to foundations, ground floor slabs, earthworks, pavements and surface water drainage.

FIGURES



Site Location Plan

SP ASSOCIATES	Report: S1916	Site: Oak Road, Wrexham Industrial Estate	Figure: 1



Site Plan

SP ASSOCIATES	**Report No.** S1916	**Project:** Oak Road, Wrexham Industrial Estate	**Figure:** 2

APPENDIX A

Historical Ordnance Survey Maps

Historical Mapping Legends

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



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



BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Ch, C	Chapel, Chars	PC	Public Convenience
Chy	Chimney	PH	Public House
DFo	Drinking Fountain	Pp	Pump
EP	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 Trank
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Disestd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ptg Sta	Sewage Pumping Station
EP	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
Fd	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Fn	Tk	Tank or Trank
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

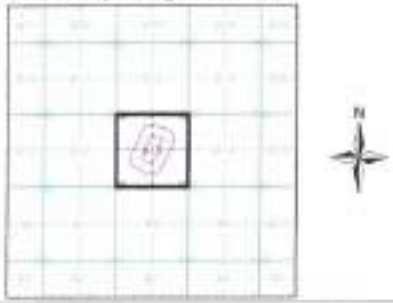
Envirocheck

LANDMARK INFORMATION GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Denbighshire	1:2,500	1873	2
Denbighshire	1:2,500	1899	3
Denbighshire	1:2,500	1911	4
Ordnance Survey Plan	1:2,500	1961	5
Ordnance Survey Plan	1:2,500	1972	6
Additional SIMs	1:2,500	1983	7
Additional SIMs	1:2,500	1988	8
Additional SIMs	1:2,500	1988	9
Additional SIMs	1:2,500	1990	10
Ordnance Survey Plan	1:2,500	1992	11
Large-Scale National Grid Data	1:2,500	1992	12
Large-Scale National Grid Data	1:2,500	1994	13

Historical Map - Segment A13



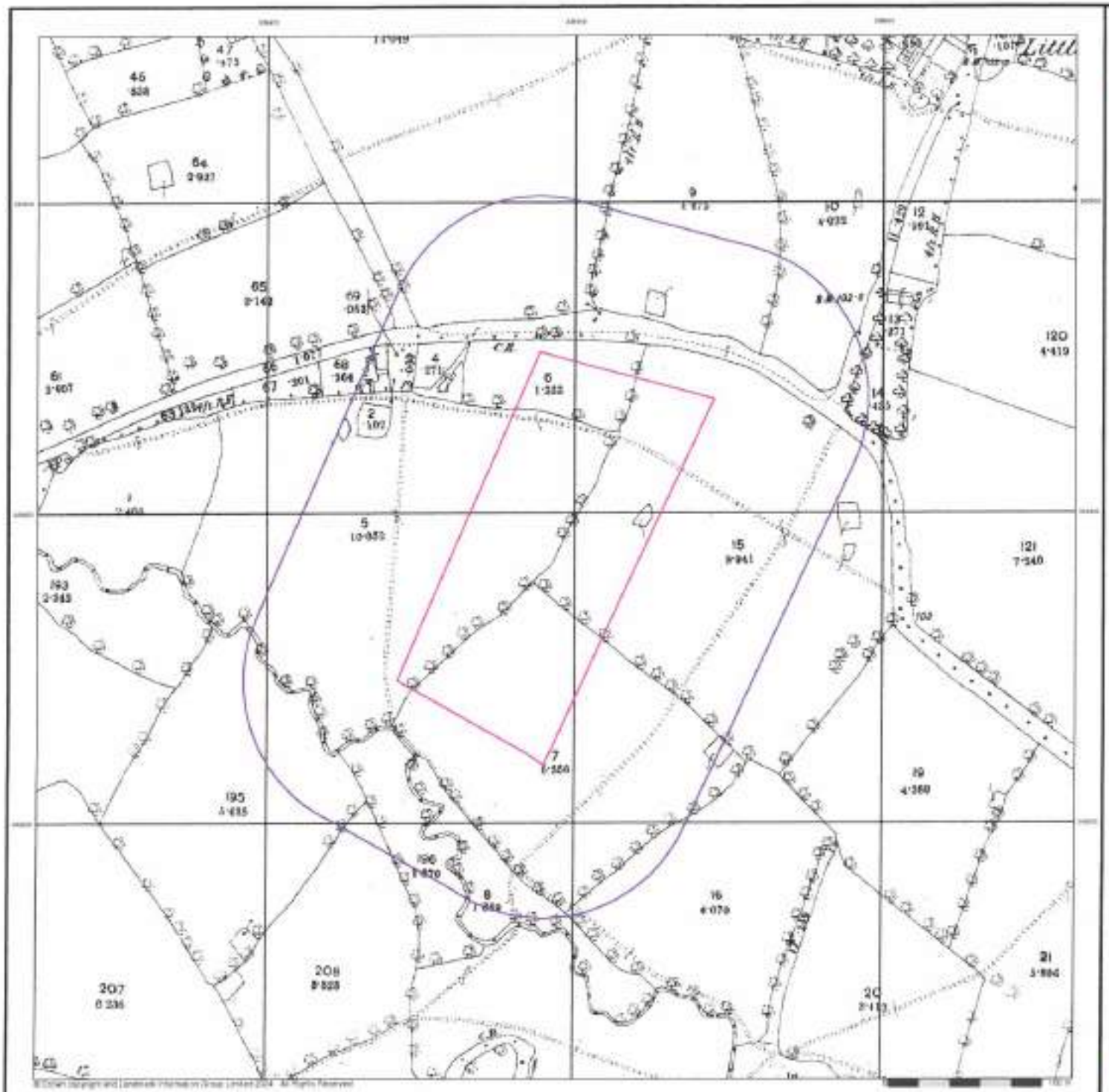
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Slice: A
Site Area (Ha): 2.77
Search Buffer (m): 100

Site Details

Higher Oak, Oak Road, Wrexham Industrial Estate, WREXHAM, LL13 9RG

Landmark



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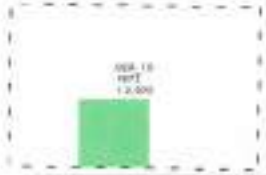
Denbighshire

Published 1873

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 1930, all OS maps were based on the Cassini Projection, with independent surveys of a single county or groups of counties, giving rise to significant inaccuracies in tallying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



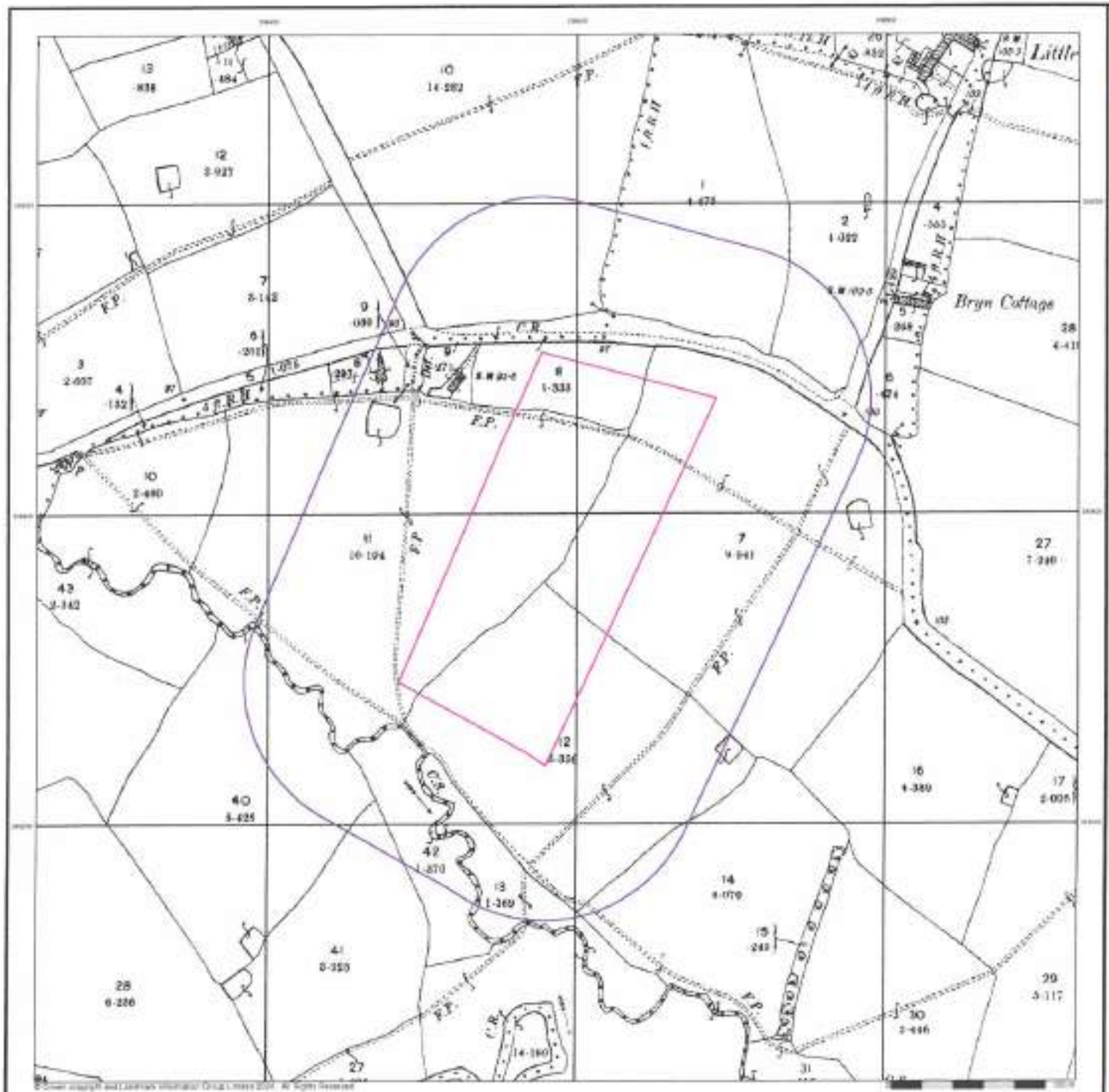
Order Details

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Site Area (Ha):	2.77
Search Buffer (m):	100

Site Details

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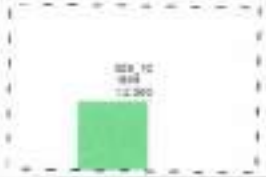
Denbighshire

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 1855 the 1:2,500 scale was adopted for mapping urban areas and by 1899 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



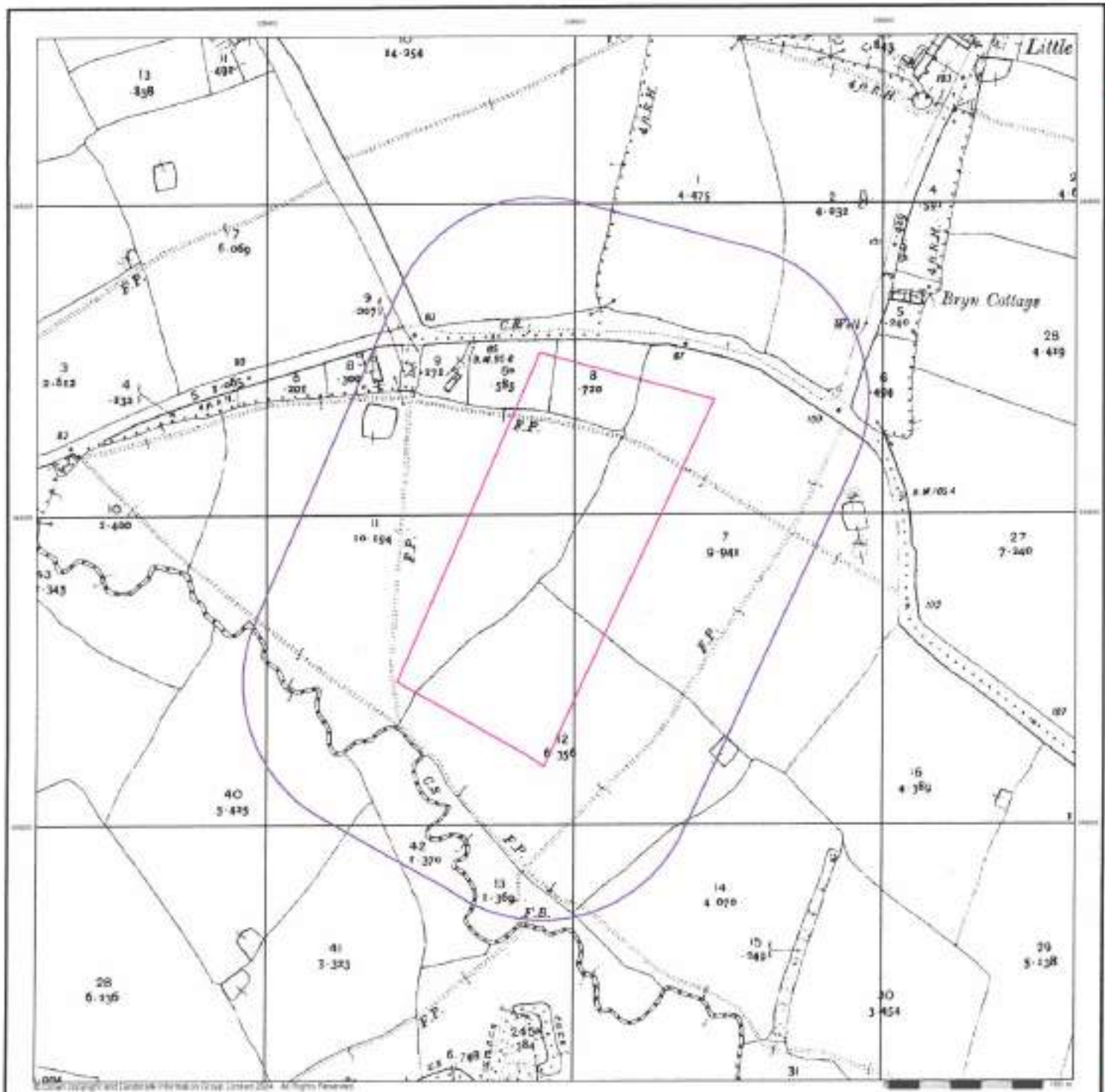
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Slice:	A
Site Area (Ha):	2.77
Search Buffer (m):	100

Site Details

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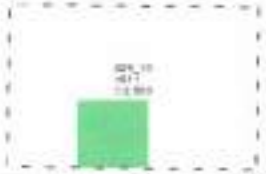
Denbighshire

Published 1911

Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1936, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

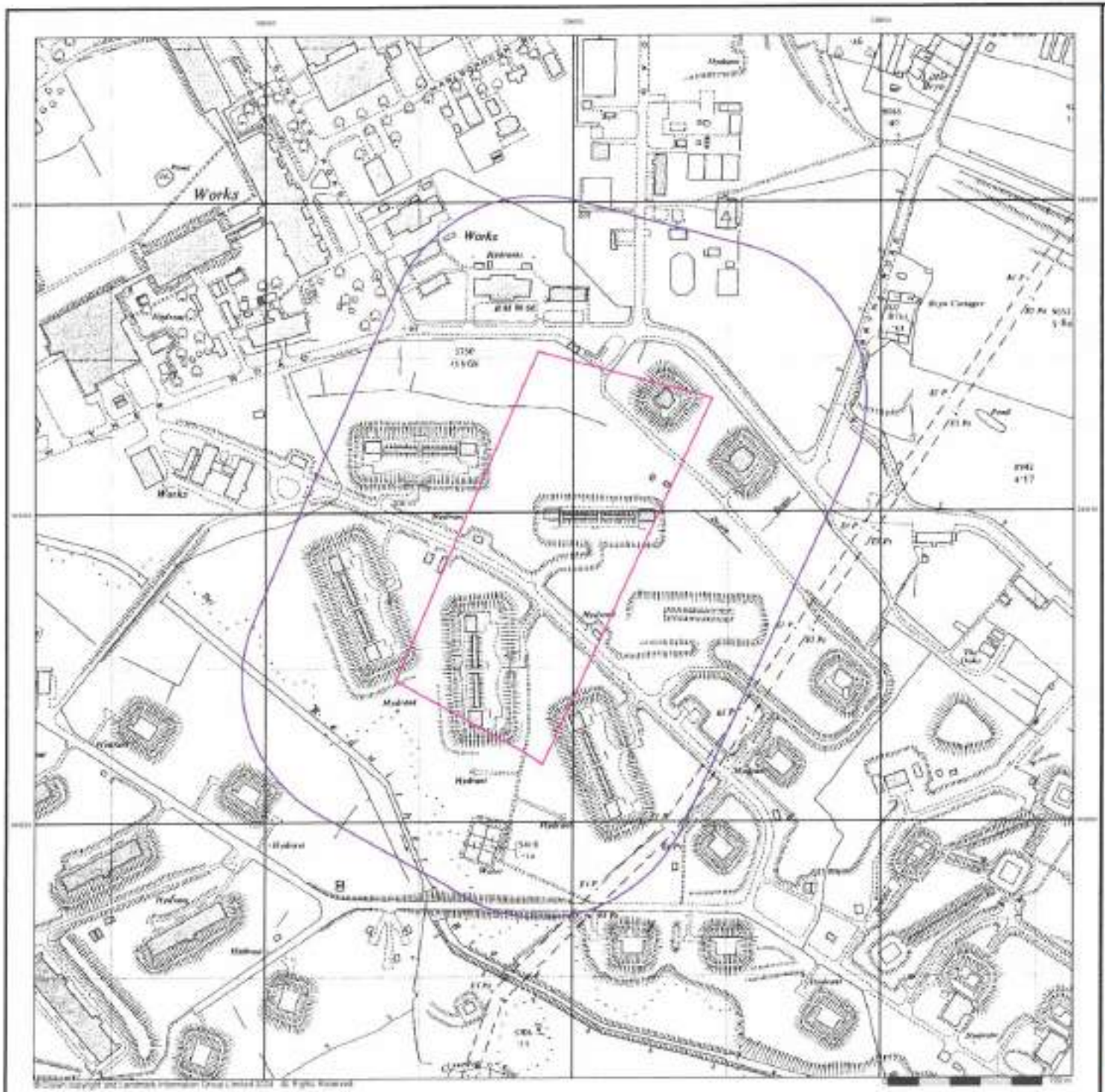


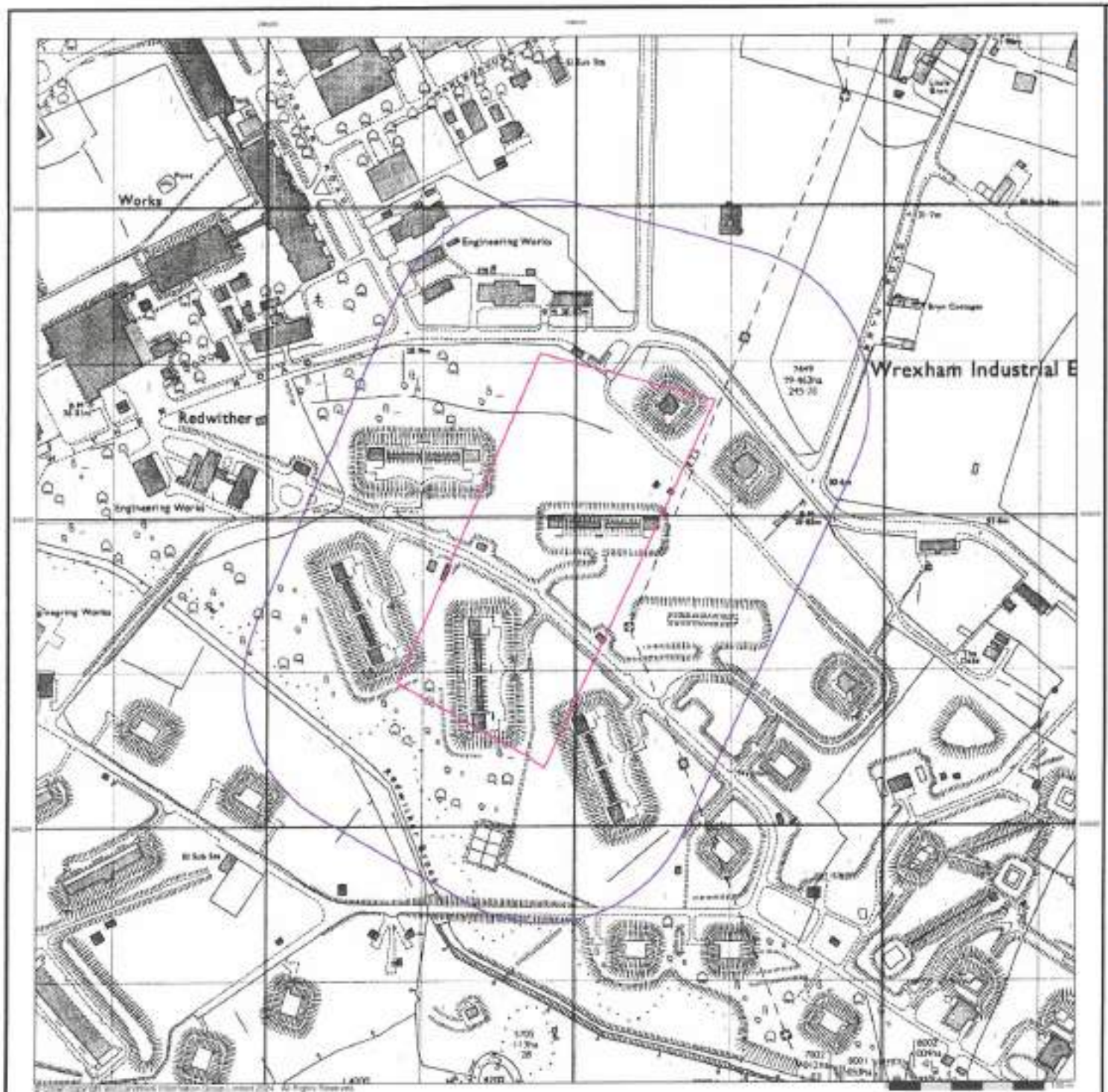
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Slice:	A
Site Area (Ha):	2.77
Search Buffer (m):	100

Site Details

Higher Oak, Oak Road, Wrexham Industrial Estate, WREXHAM, LL13 9RG


Works
Works
Works
Works
Pond
Pond
Pond



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Ordnance Survey Plan

Published 1972

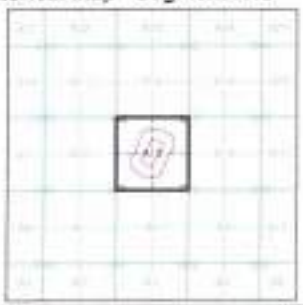
Source map scale - 1:2,500

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 1936, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



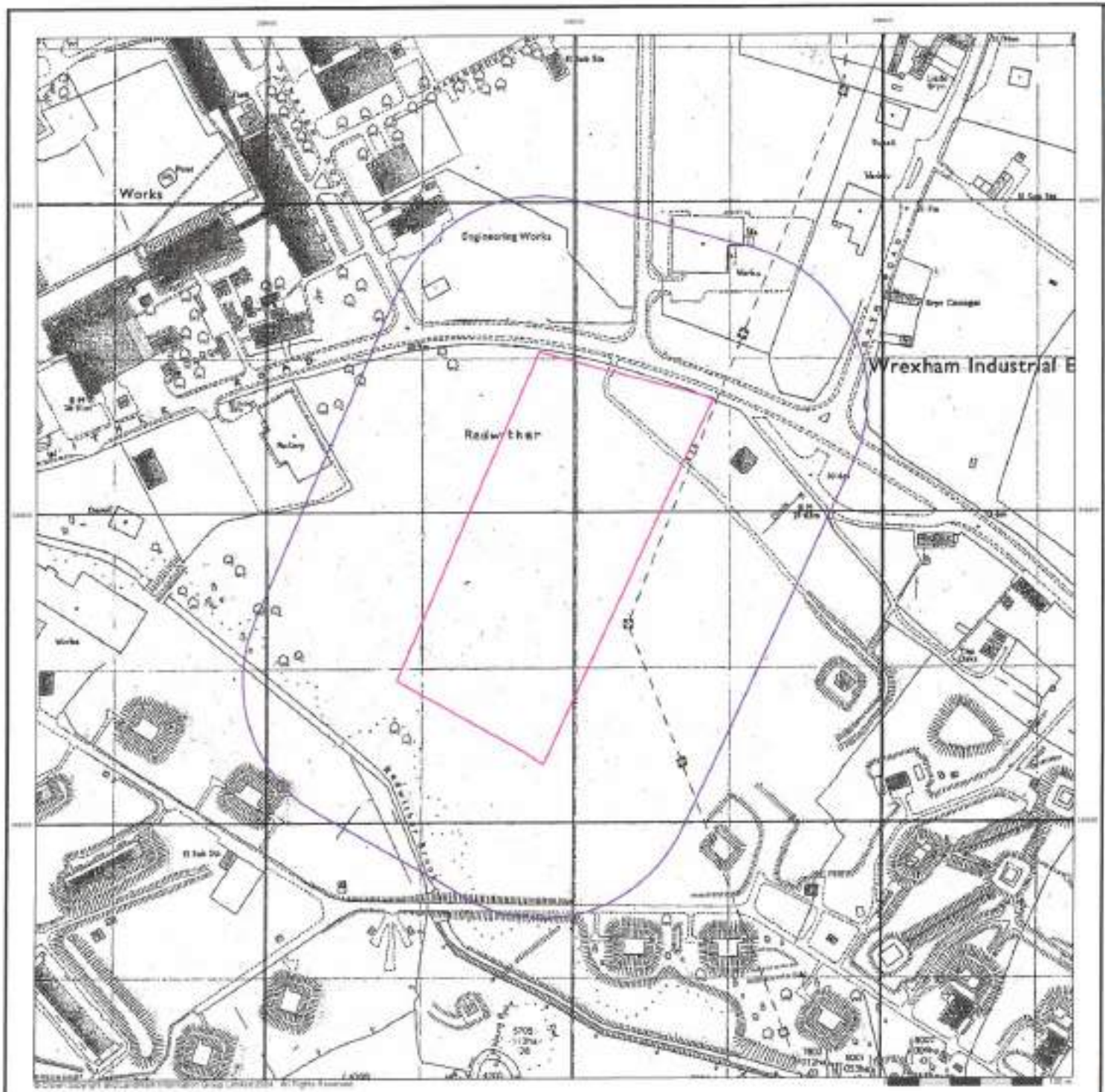
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Site Area (Ha):	2.77
Search Buffer (m):	100

Site Details

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Landmark



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Additional SIMs

Published 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 error 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

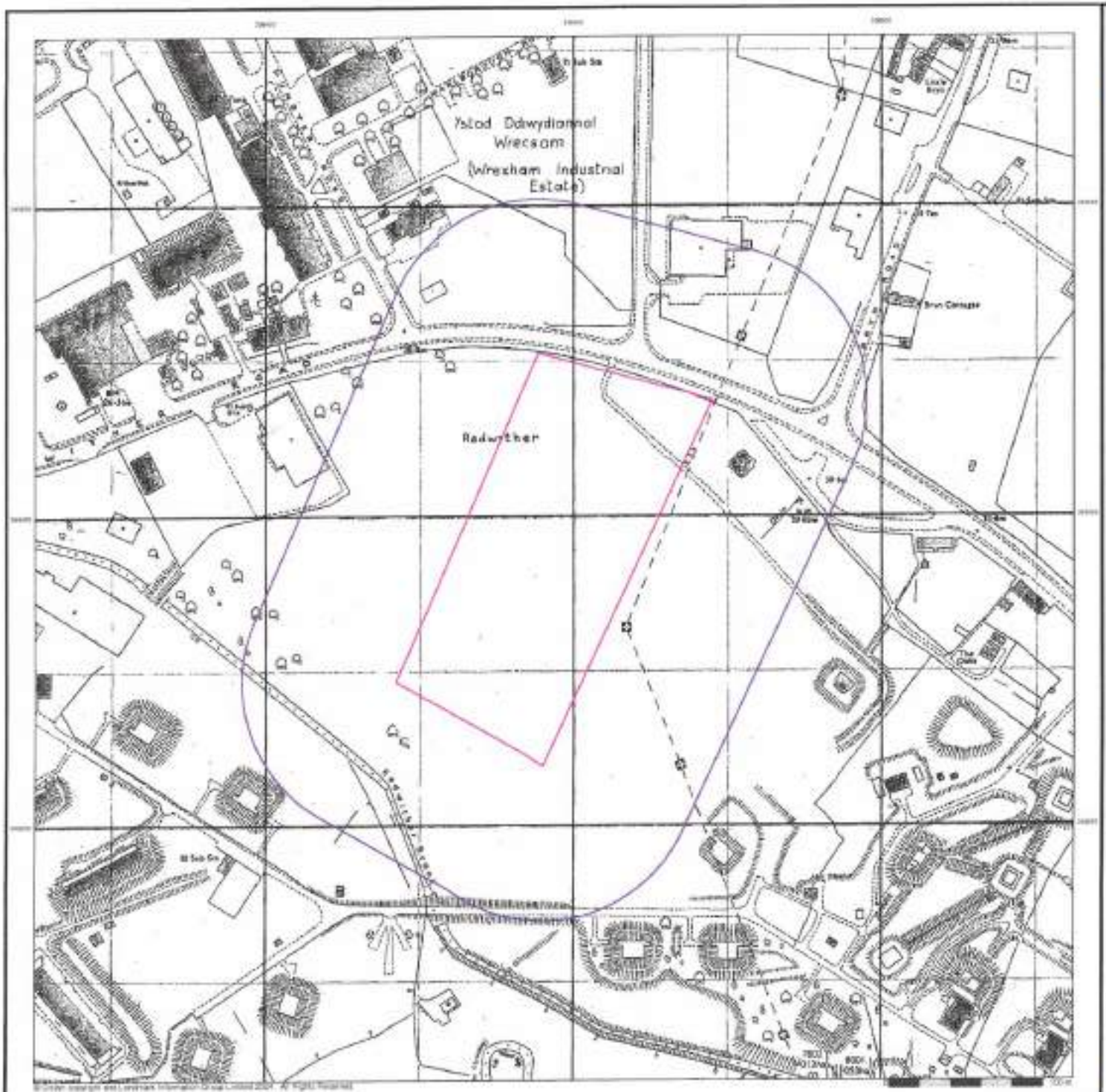


Order Details

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Customer Ref:	S1911
National Grid Reference:	338596, 349380
Slice:	A
Site Area (Ha):	2.77
Search Buffer (m):	100

Site Details

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Additional SIMs

Published 1988

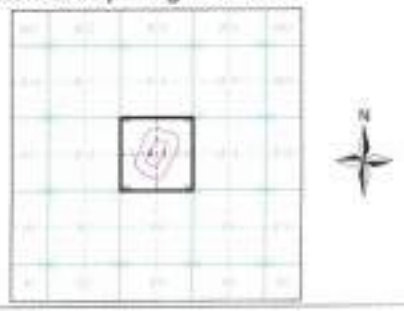
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on MicroBm') 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

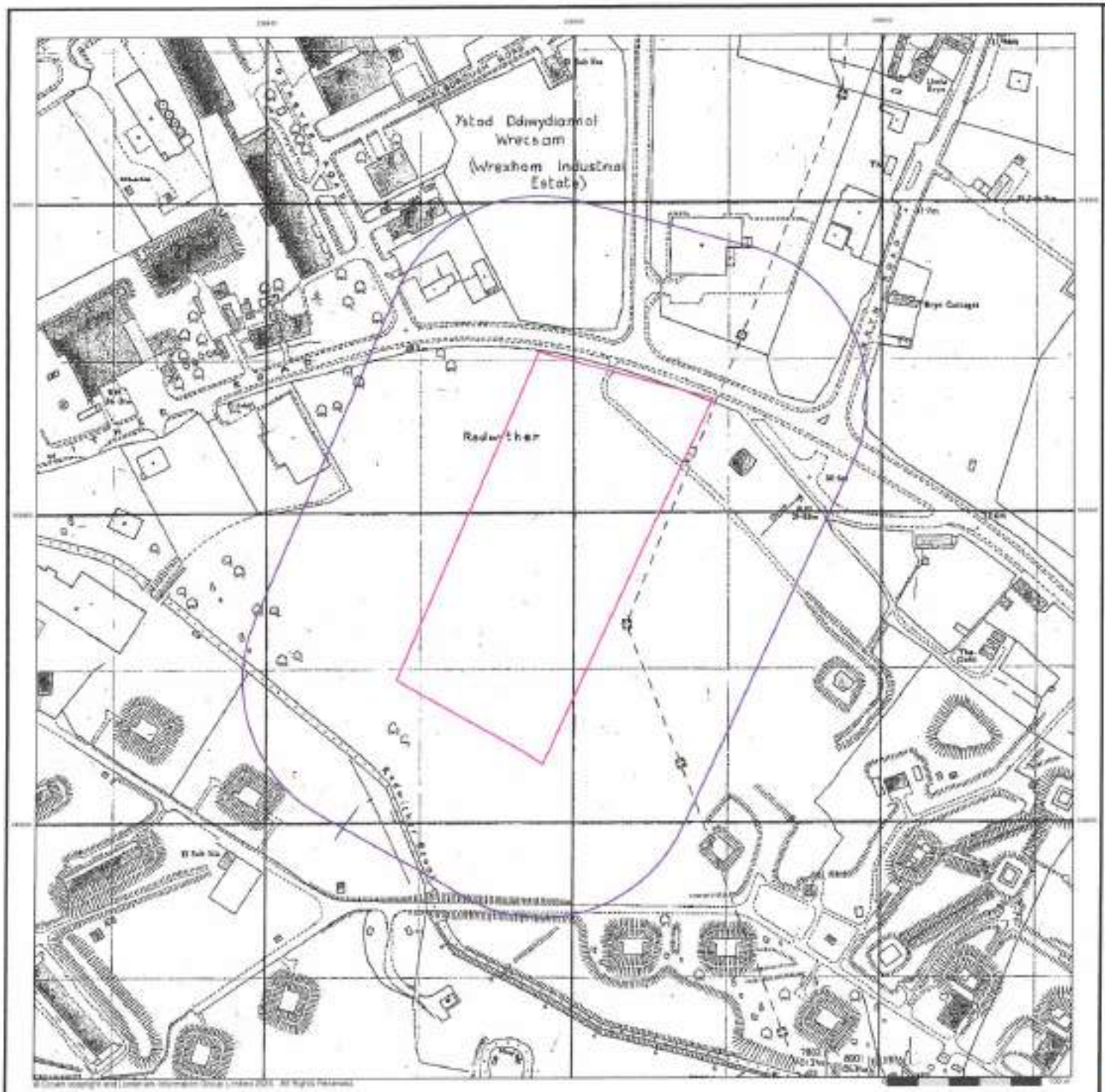


Order Details

Order Number:	338851652_1_1
Customer Ref:	IS1911
National Grid Reference:	338590, 349380
Slice:	A
Site Area (Ha):	2.77
Search Buffer (m):	100

Site Details

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WREXHAM, LL13 9RG



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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 1998, 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

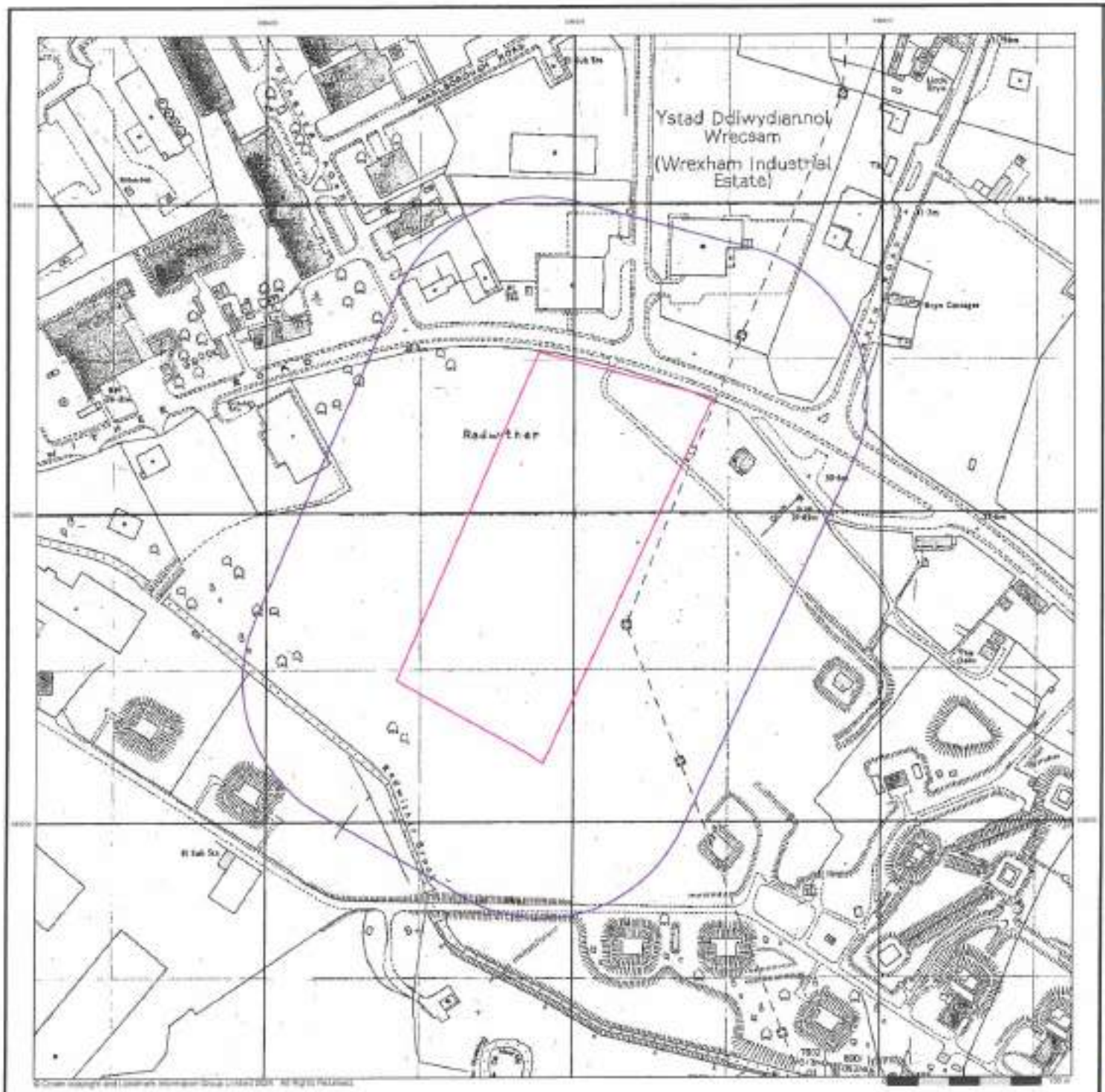


Order Details

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Site Area (Ha):	2.77
Search Buffer (m):	100

Site Details

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Additional SIMs

Published 1990

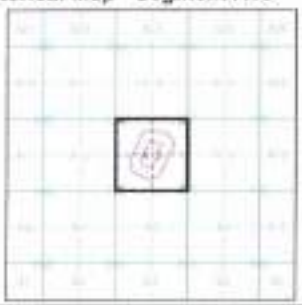
Source map scale - 1:2,500

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



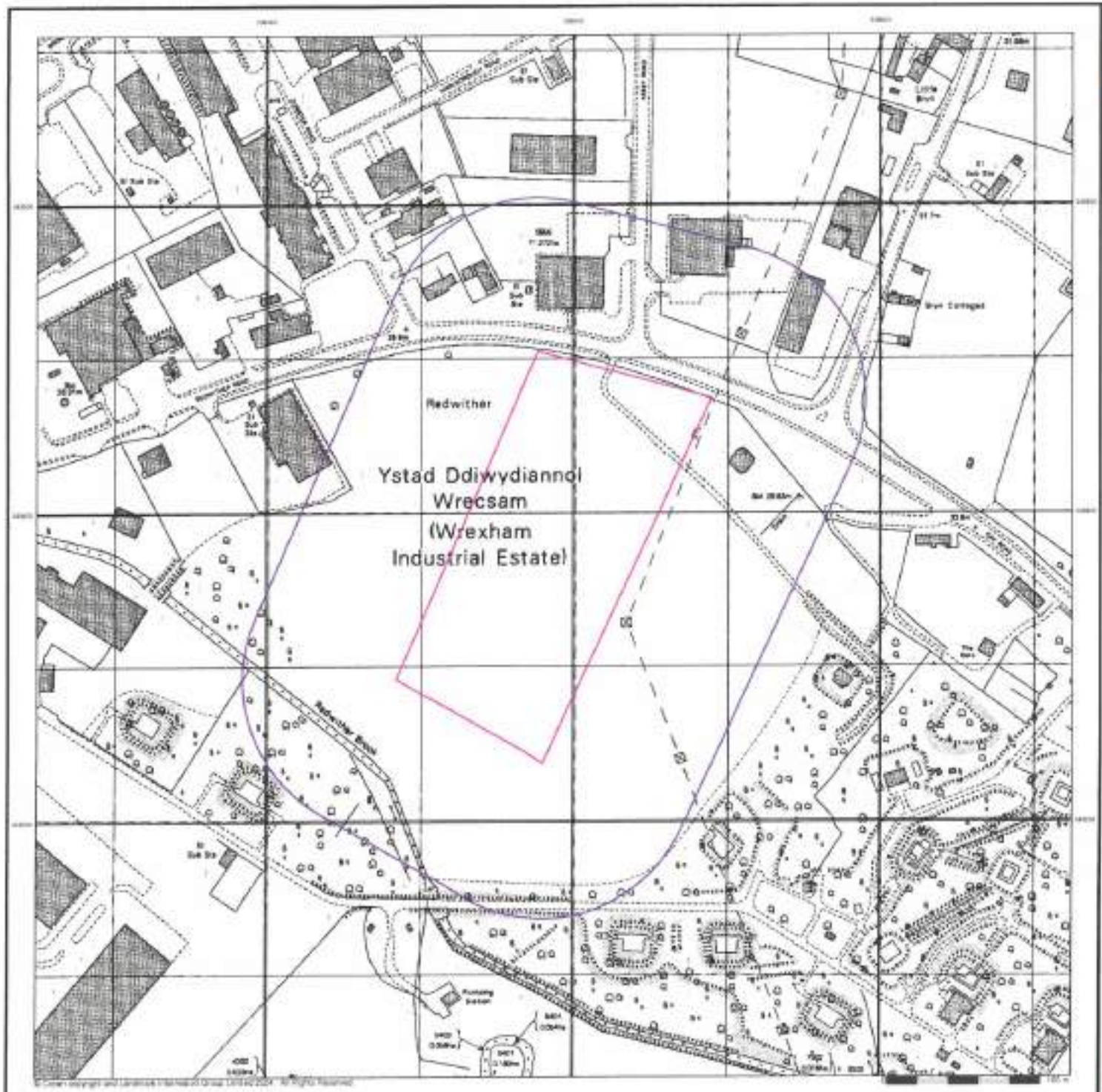
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Slice:	A
Site Area (Ha):	2.77
Search Buffer (m):	100

Site Details

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Ordnance Survey Plan

Published 1992

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 1956 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 1939, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

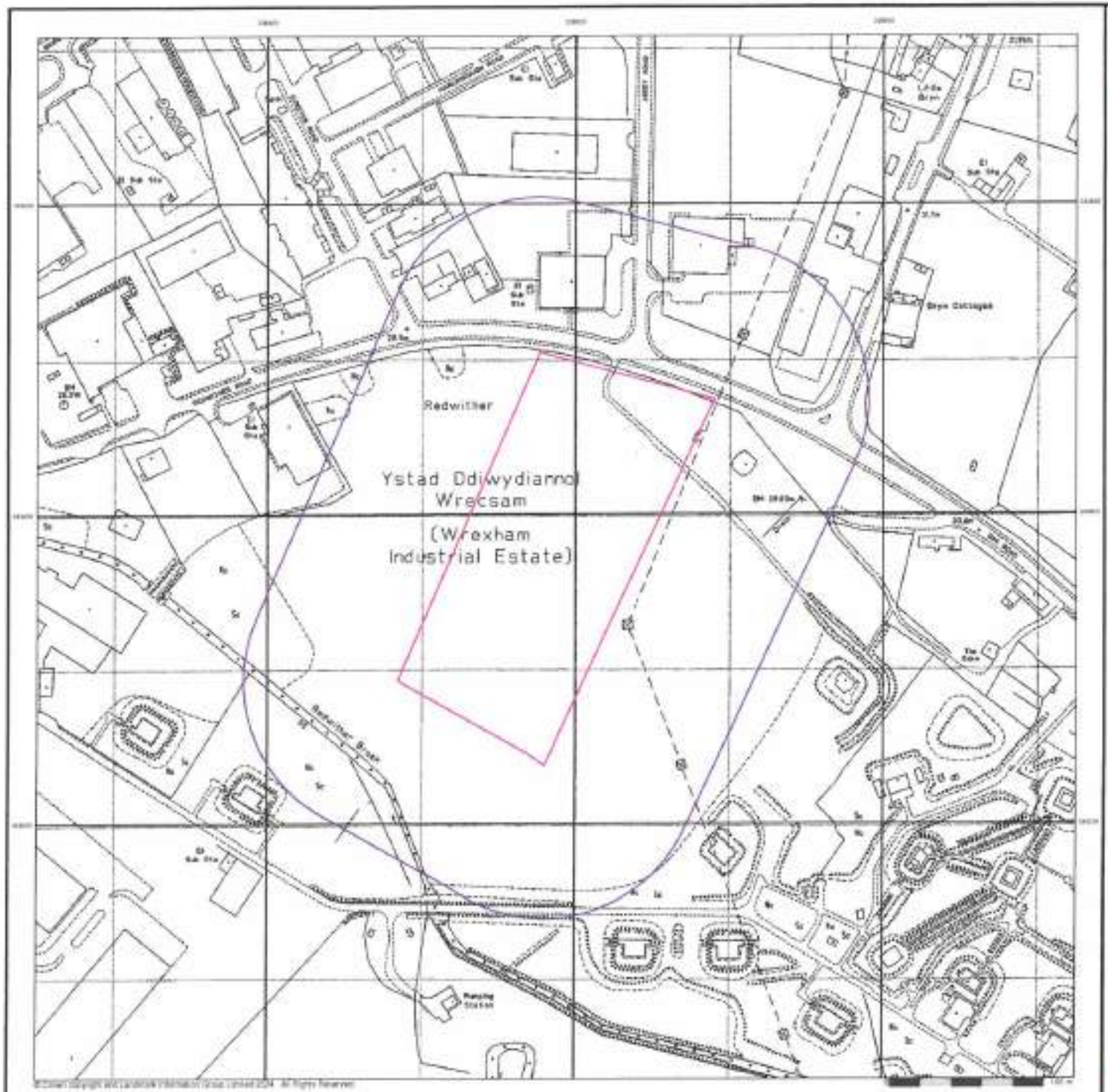


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Site Area (Ha):	2.77
Search Buffer (m):	100

Site Details

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Large-Scale National Grid Data

Published 1992

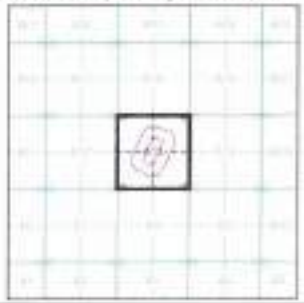
Source map scale - 1:2,500

Large Scale National Grid Data superseded Sifti cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1993. These maps were the forerunners 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

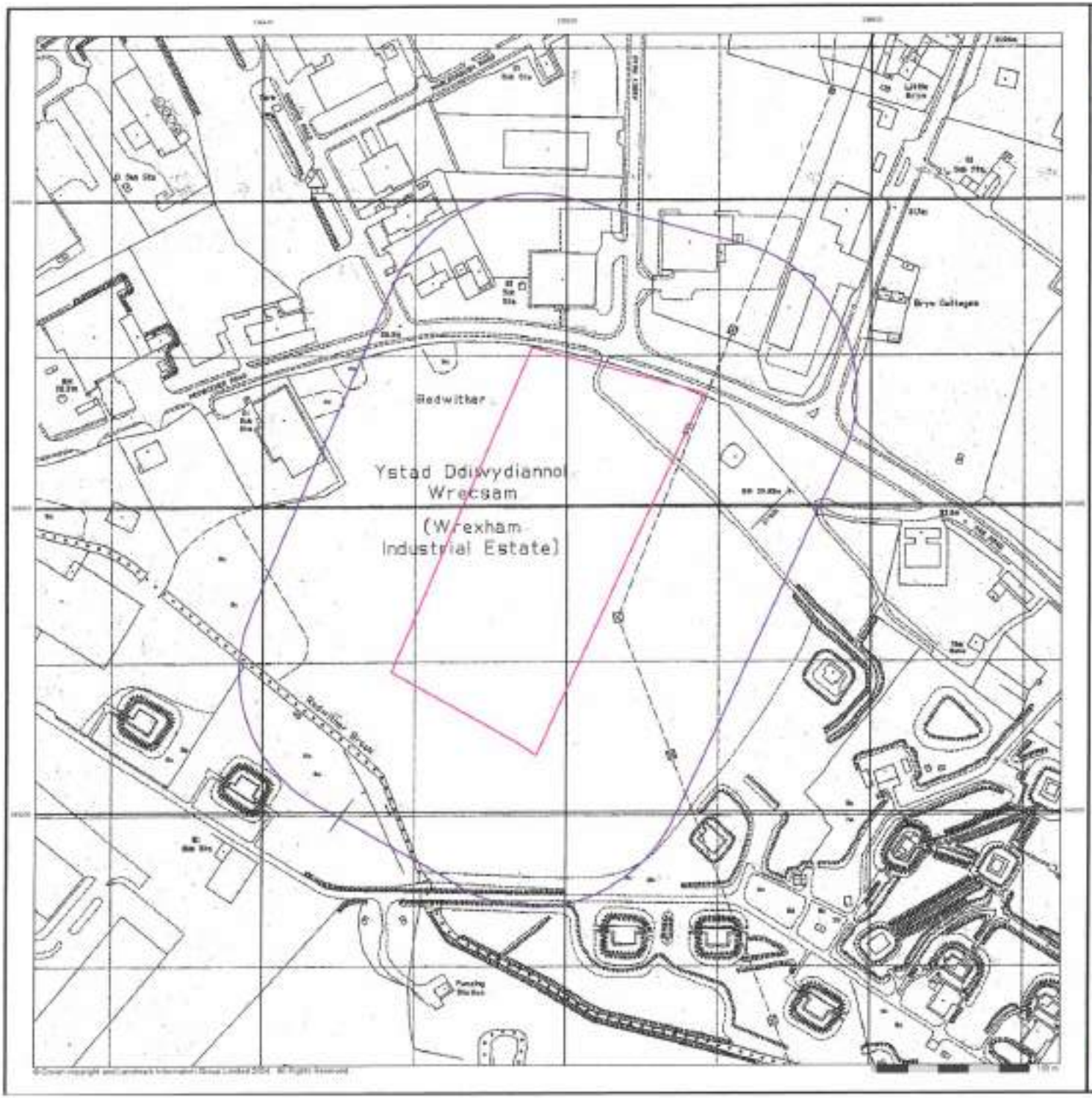


Order Details

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Site Area (Ha):	2.77
Search Buffer (m):	500

Site Details

Higher Oak, Oak Road, Wrexham Industrial Estate, WREXHAM, LL13 9RG



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Large-Scale National Grid Data

Published 1994

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 1998. These maps were the forerunners 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

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Site Details

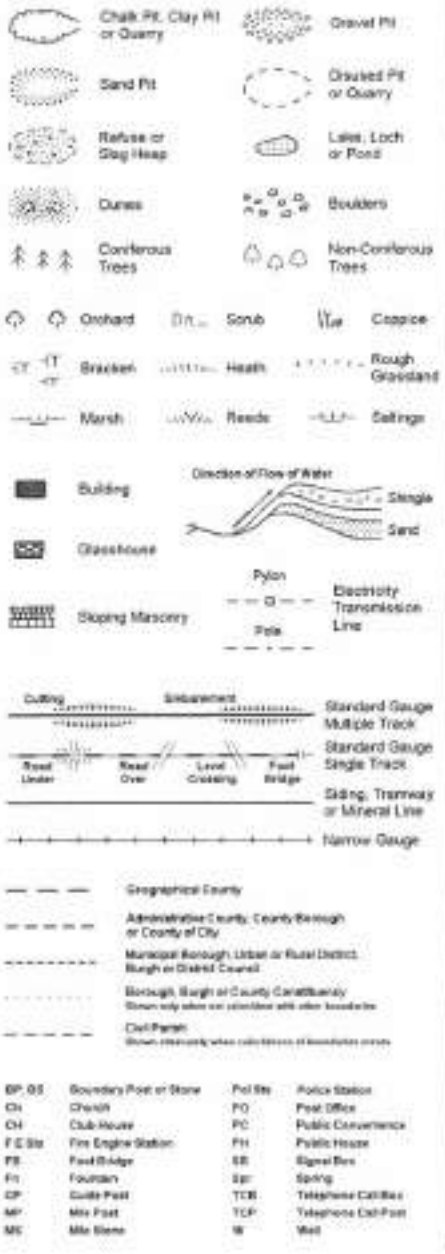
Higher Oak, Oak Road, Wrexham Industrial Estate, WREXHAM, LL13 9RG

Historical Mapping Legends

Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000



1:10,000 Raster Mapping



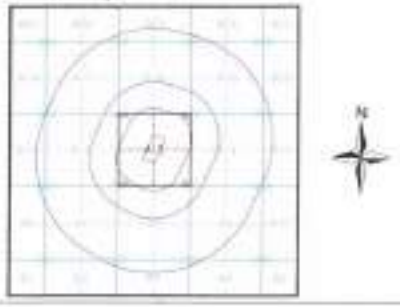
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Denbighshire	1:10,560	1879	2
Cheshire	1:10,560	1881	3
Cheshire	1:10,560	1899 - 1900	4
Denbighshire	1:10,560	1899	5
Flintshire	1:10,560	1900	6
Cheshire	1:10,560	1913 - 1918	7
Denbighshire	1:10,560	1914	8
Denbighshire	1:10,560	1938 - 1954	9
Denbighshire	1:10,560	1954	10
Ordnance Survey Plan	1:10,000	1964	11
Ordnance Survey Plan	1:10,000	1968	12
Ordnance Survey Plan	1:10,000	1978	13
Ordnance Survey Plan	1:10,000	1982	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



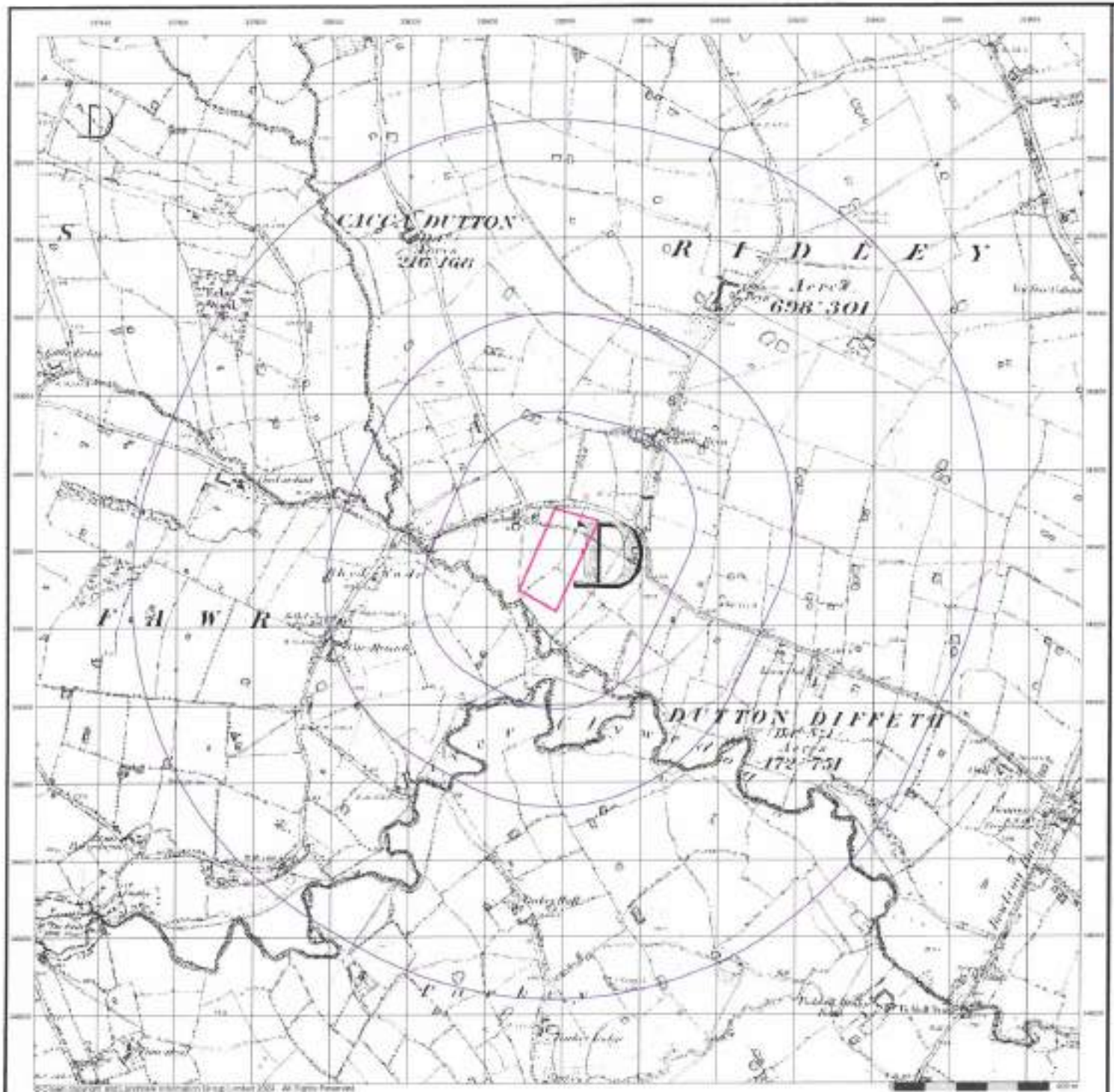
Order Details

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Site Area (Ha): 2.77
Search Buffer (m): 1000

Site Details

Higher Oak, Oak Road, Wrexham Industrial Estate, WREXHAM, LL13 9RG

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LANDMARK INFORMATION GROUP

Denbighshire

Published 1879

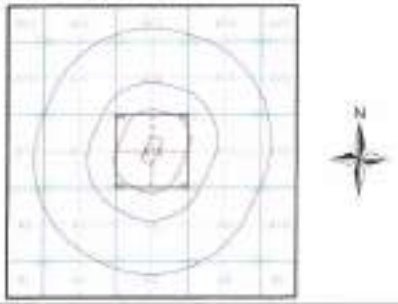
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

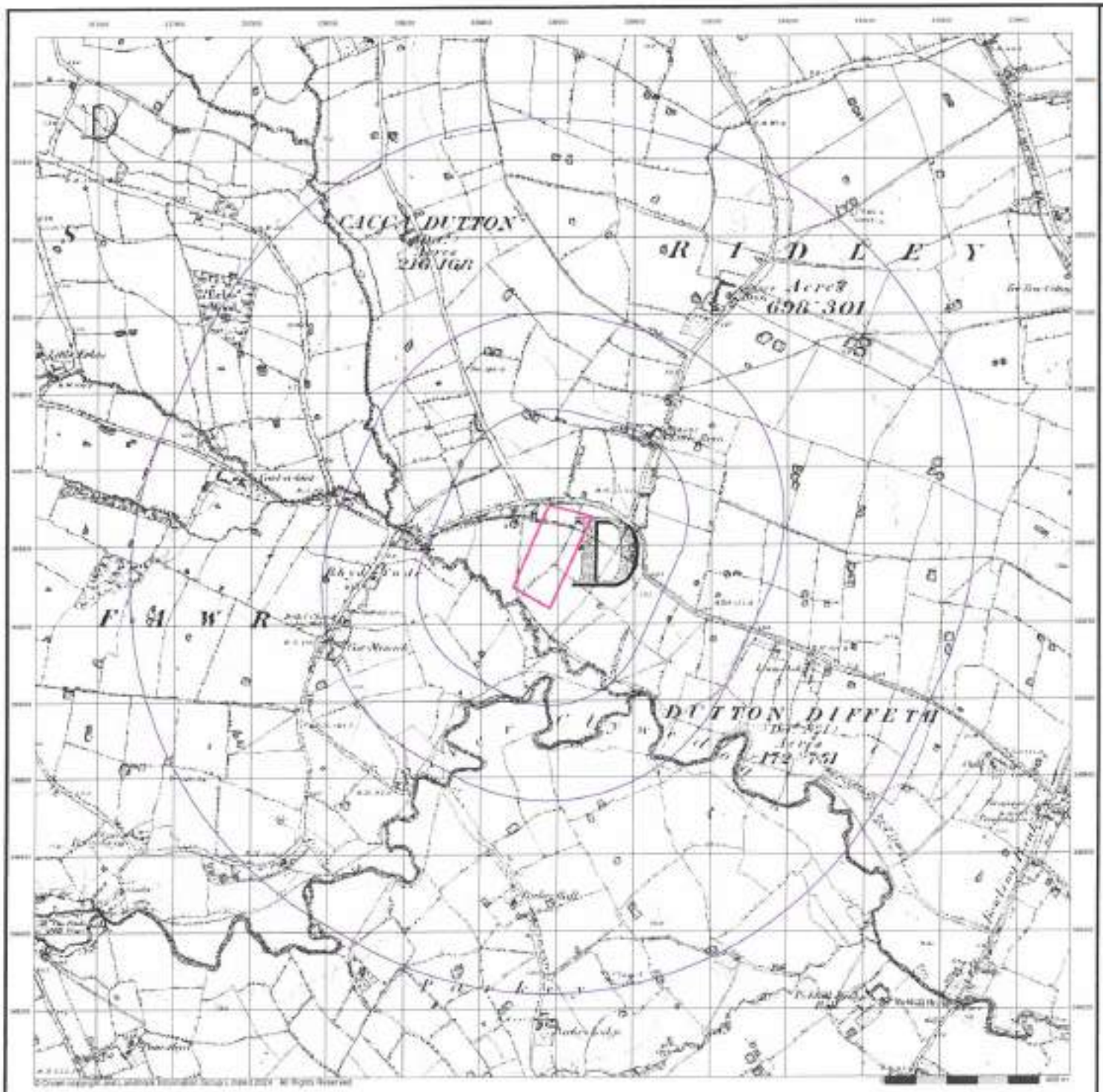
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Customer Ref:	51911
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Slice:	A
Site Area (Ha):	2.77
Search Buffer (m):	1000

Site Details

Higher Oak, Oak Road, Wrexham Industrial Estate, WREXHAM, LL13 9RG

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



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LANDMARK INFORMATION GROUP

Cheshire

Published 1881

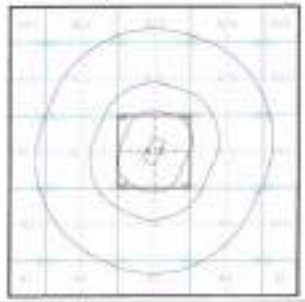
Source map scale - 1:10,560

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 data. Before 1935, 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 certain 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 unrevised - 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

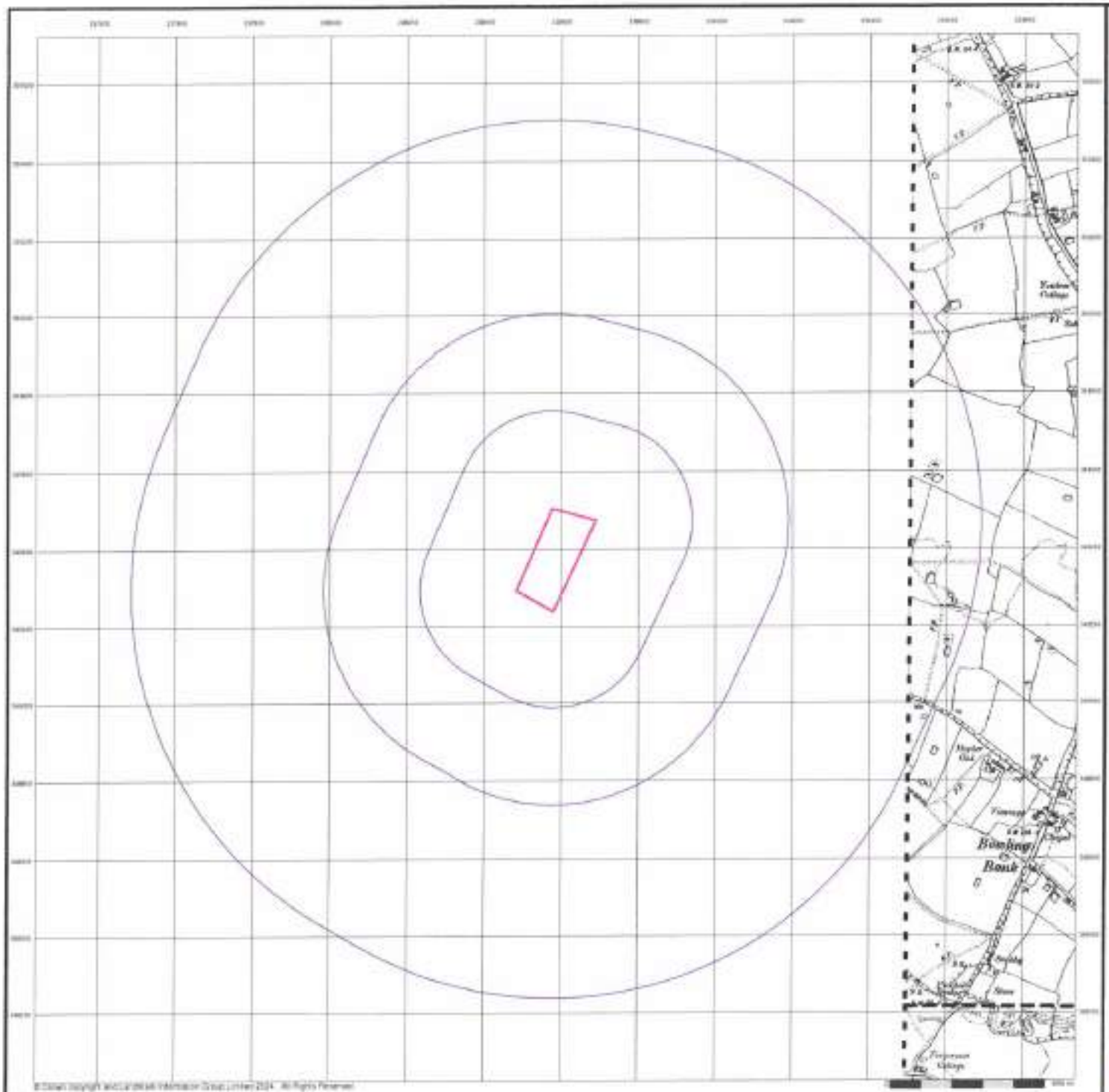
Order Number:	339851652_1_1
Customer Ref:	51911
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Slice:	A
Site Area (Ha):	2.77
Search Buffer (m)	1000

Site Details

Higher Oak, Oak Road, Wrexham Industrial Estate, WREXHAM, LL13 9RG

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LANDMARK INFORMATION GROUP

Cheshire

Published 1899 - 1900

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1909, 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 unrevised - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1973, 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

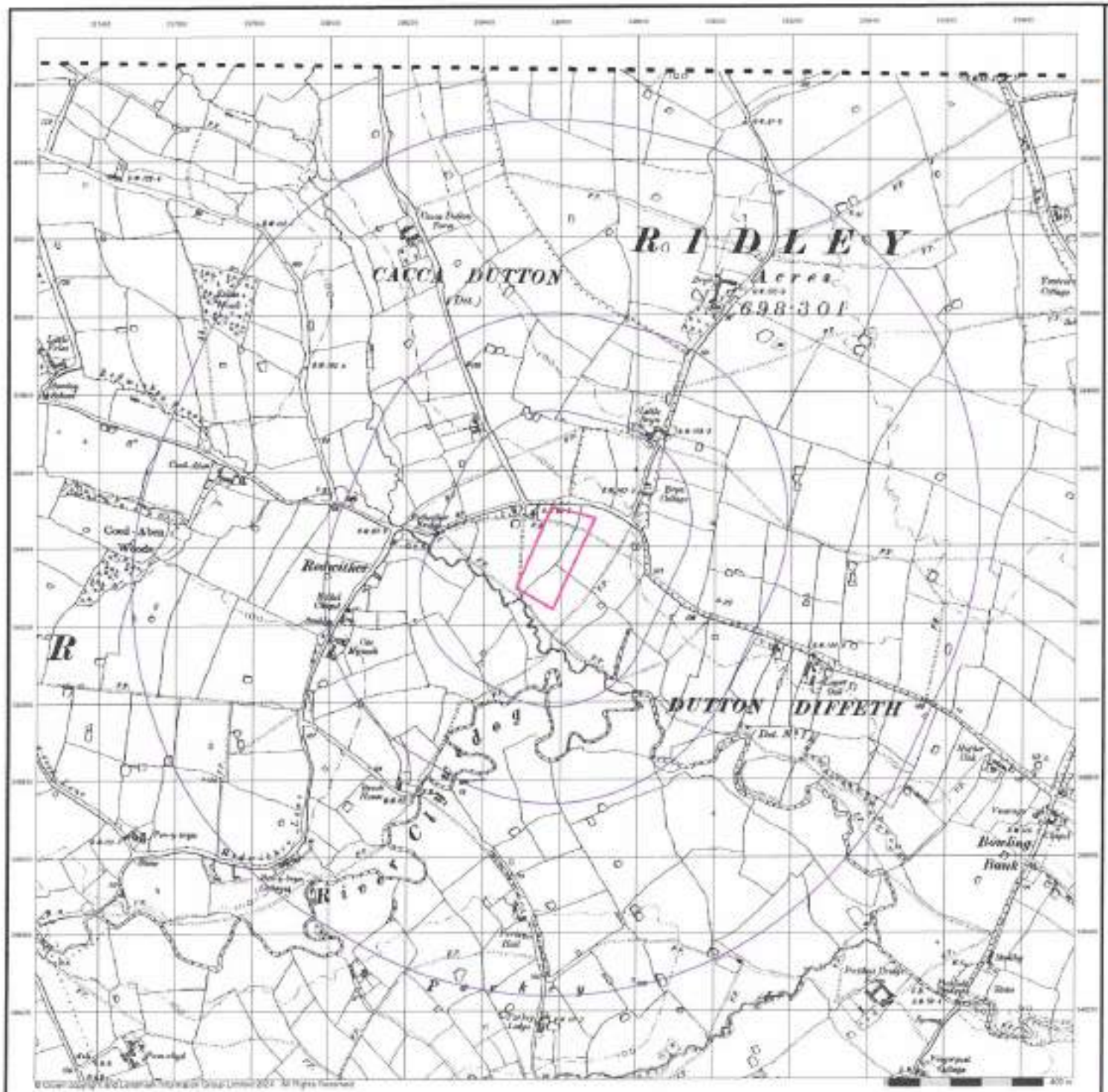


Order Details

Order Number:	339851662_1_1
Customer Ref:	S1911
National Grid Reference:	338590, 349380
Slice:	A
Site Area (Ha):	2.77
Search Buffer (m):	1000

Site Details

Higher Oak, Oak Road, Wrexham Industrial Estate, WREXHAM, LL13 9RG



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Denbighshire

Published 1899

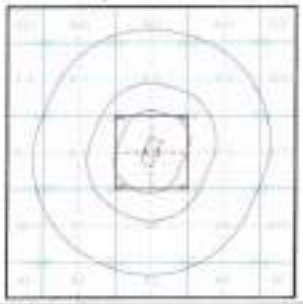
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1939, 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 untrained - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

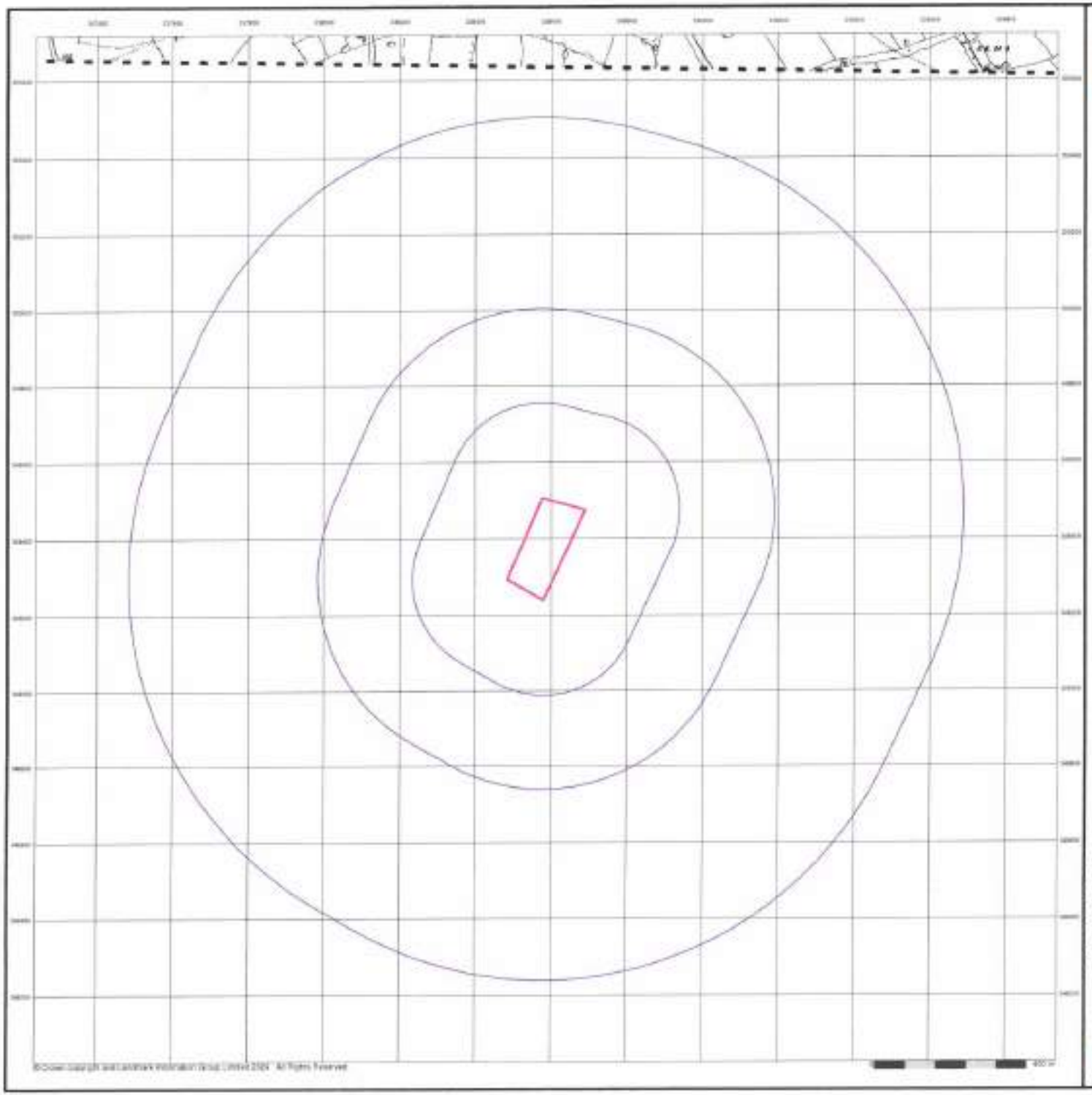


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Search Buffer (m):	1000

Site Details

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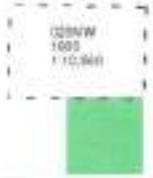
Flintshire

Published 1900

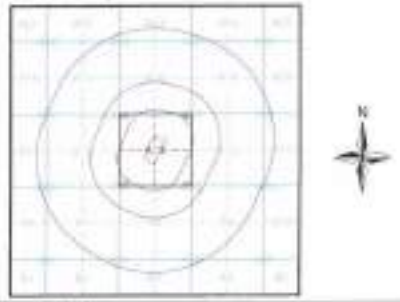
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date, before 1936, all OS maps were based on the Cassini Projection with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

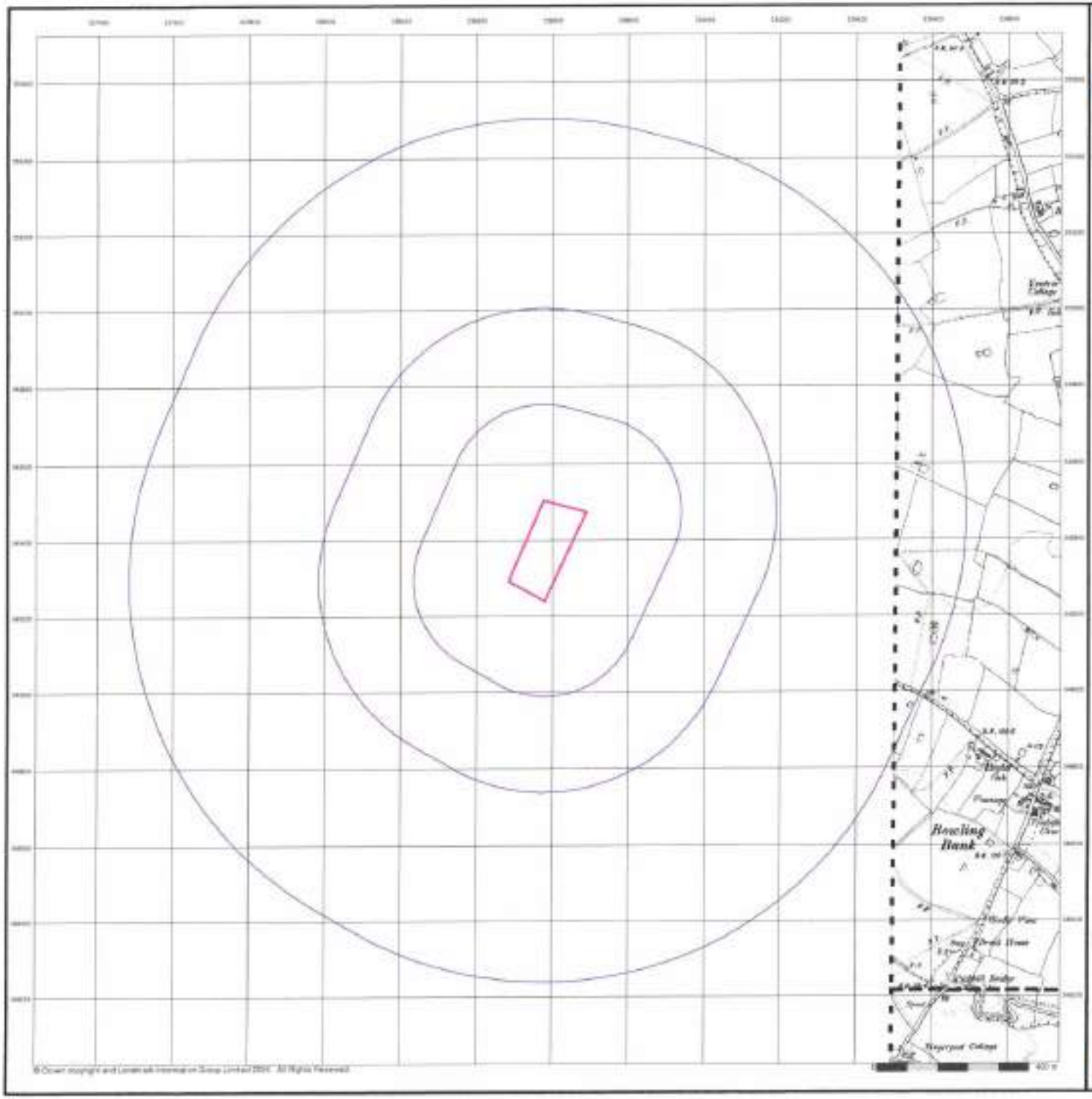


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Cheshire

Published 1913 - 1914

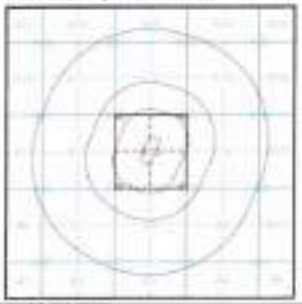
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

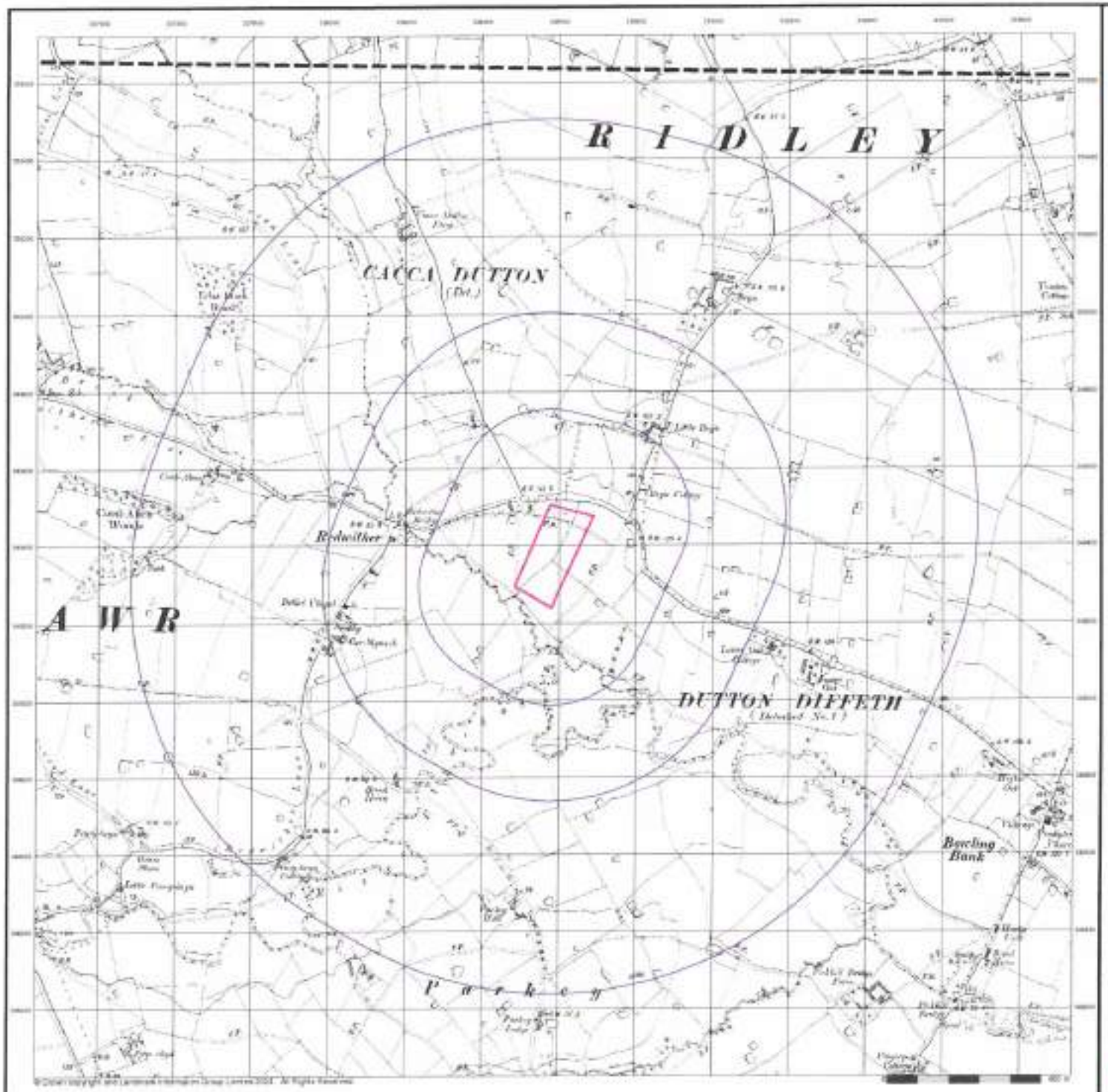
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Denbighshire

Published 1914

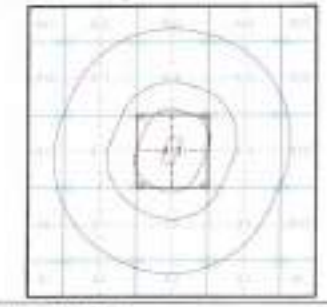
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



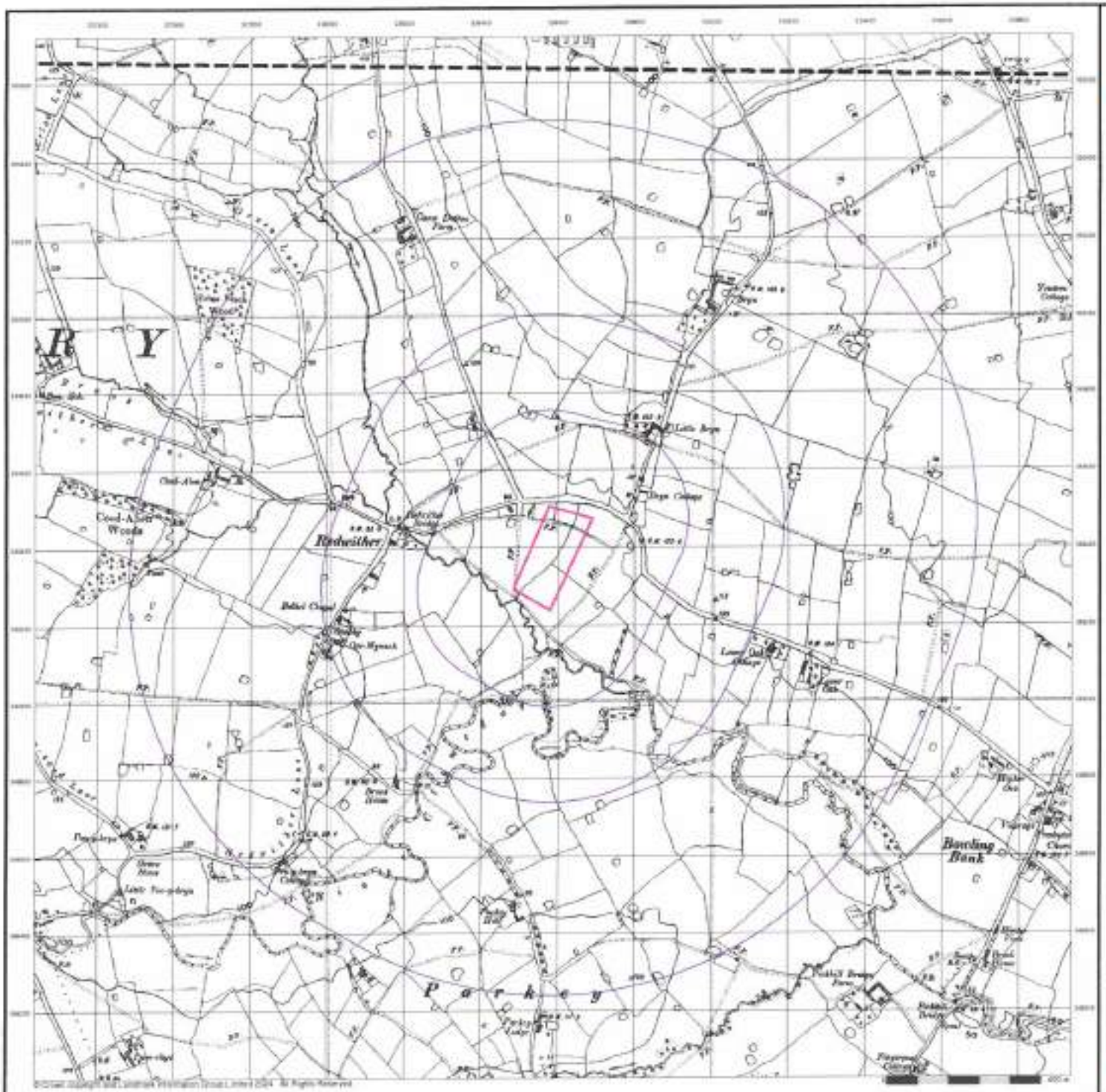
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Denbighshire

Published 1938 - 1954

Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



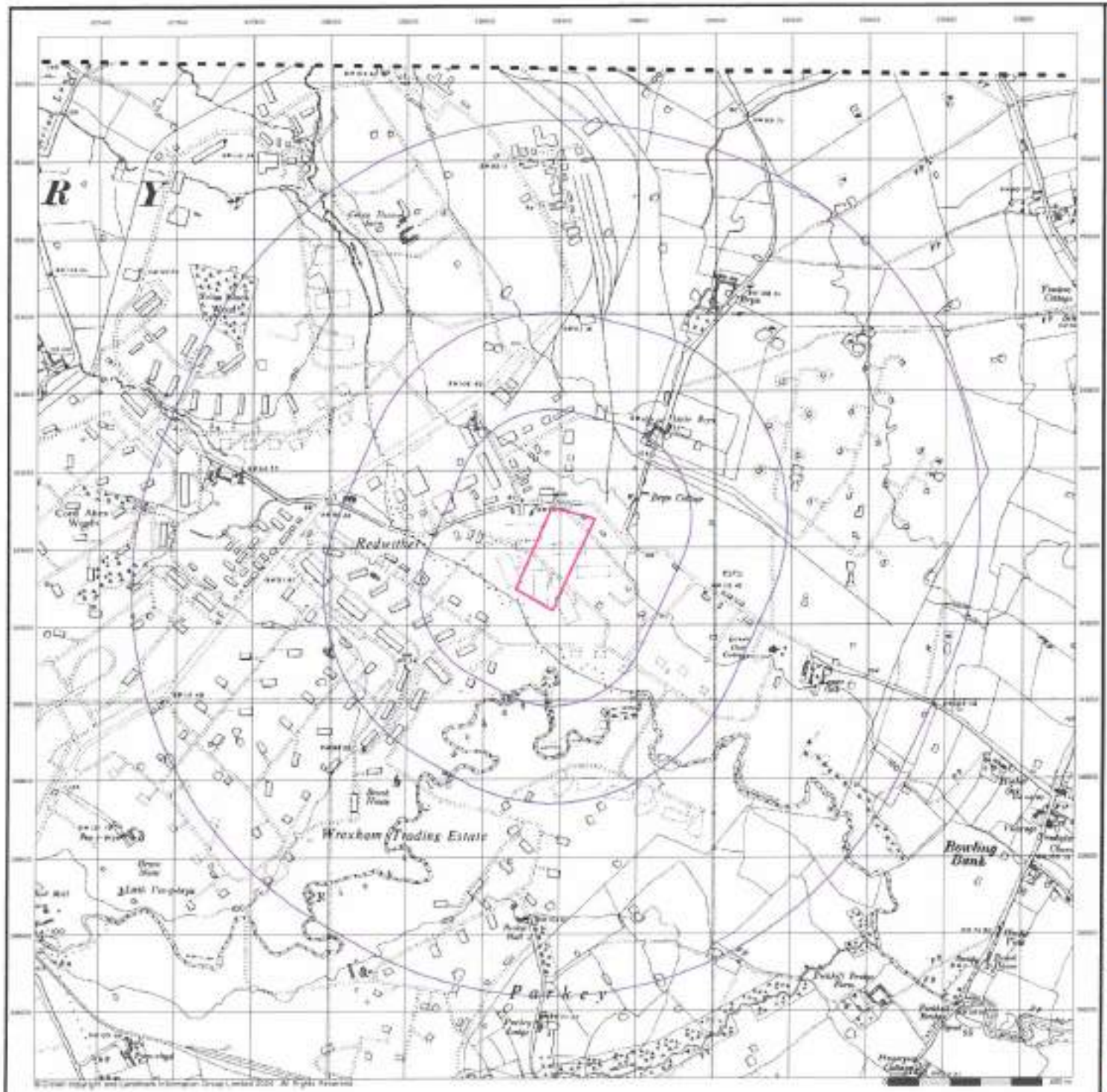
Order Details

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Denbighshire

Published 1954

Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A

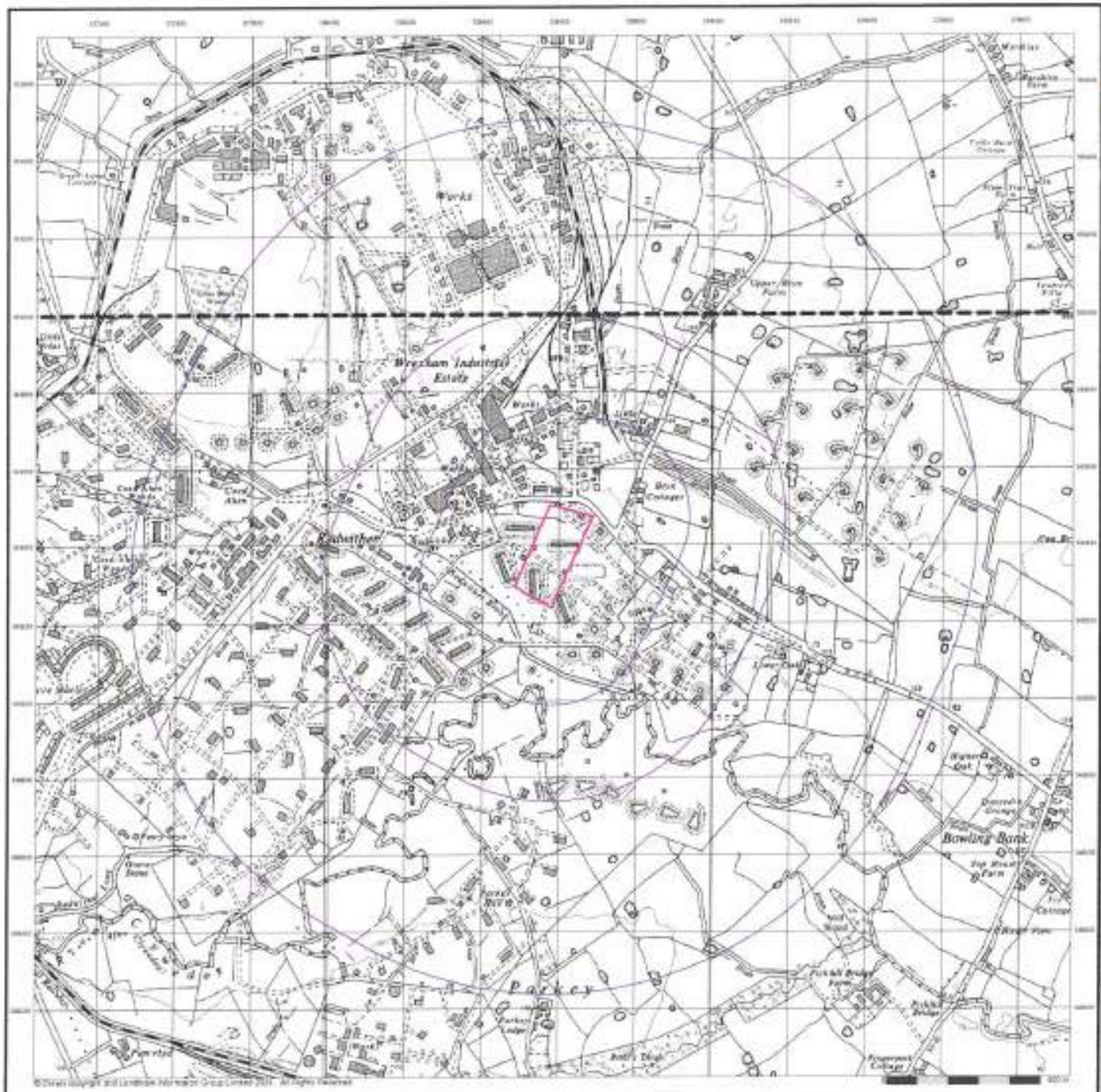


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Ordnance Survey Plan

Published 1964

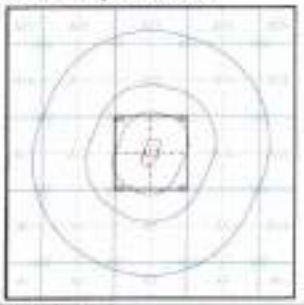
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Map Name(s) and Date(s)



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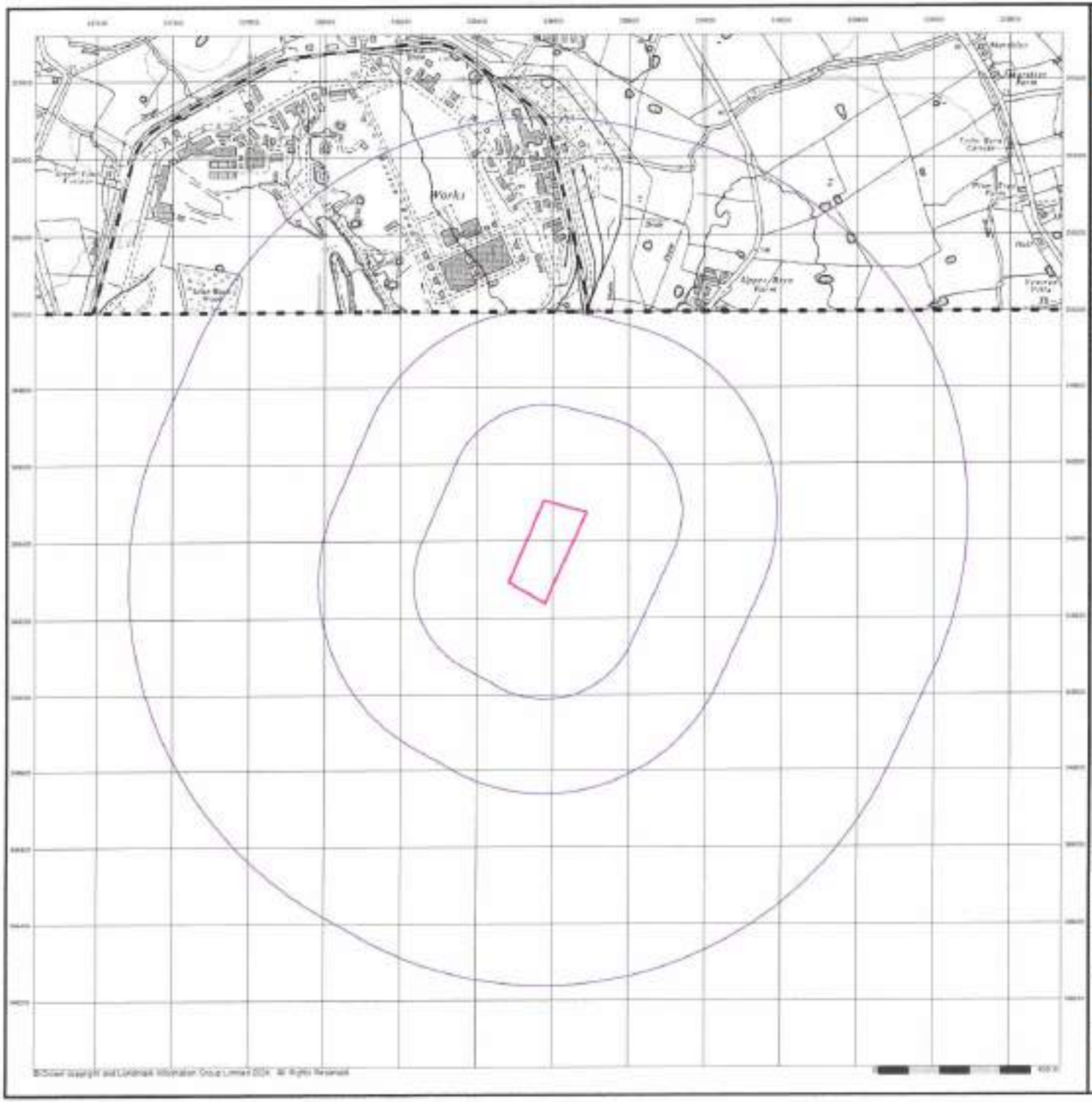


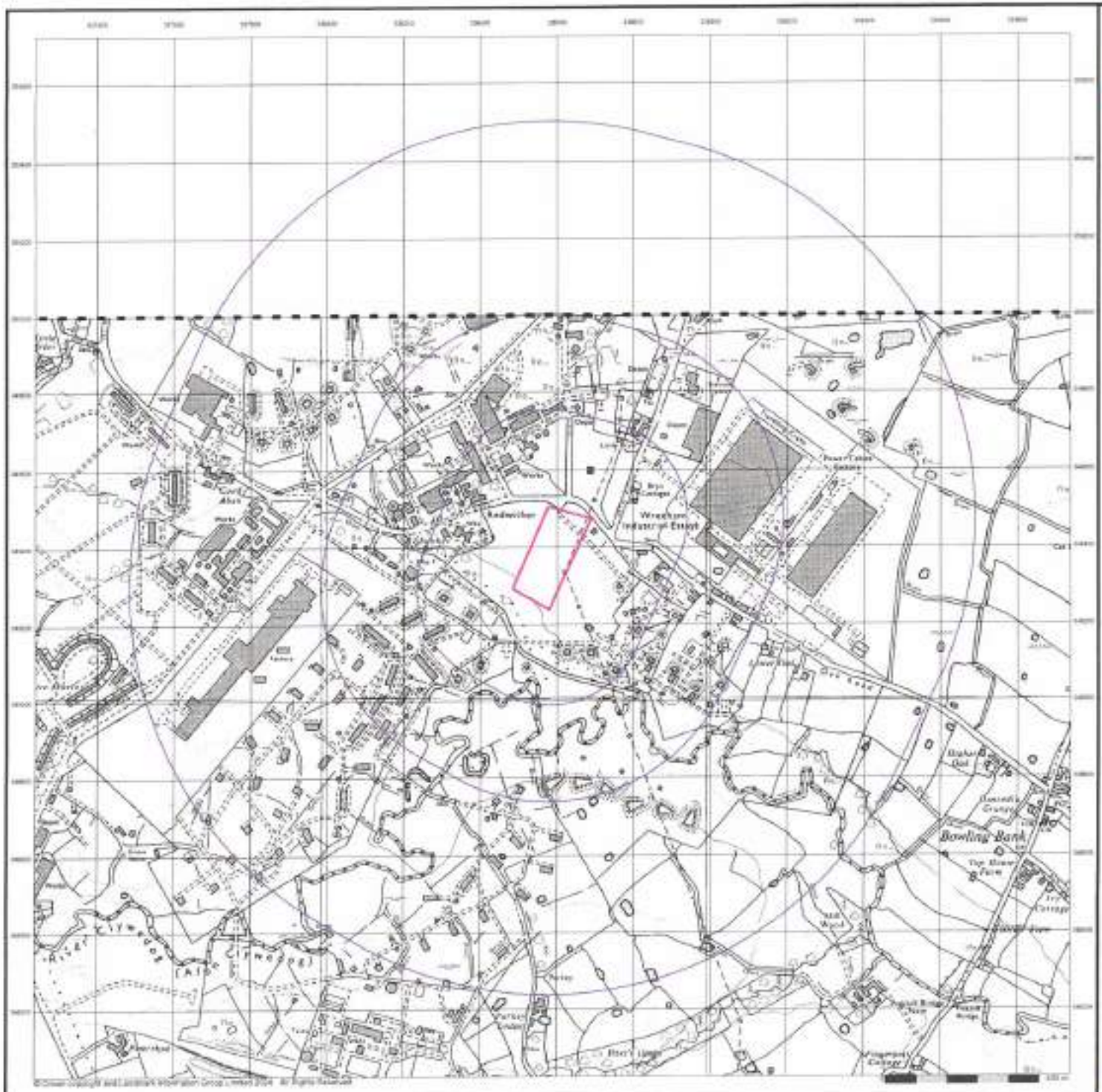
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Works
Upper Bryn Farm
Bryn Farm
Pant Farm
Pant Farm Cottages
Pant Farm Pond
Pond
Pond



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Ordnance Survey Plan

Published 1979

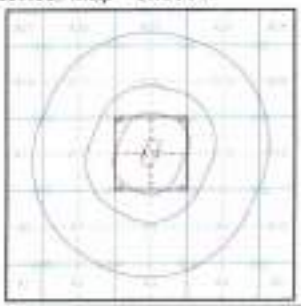
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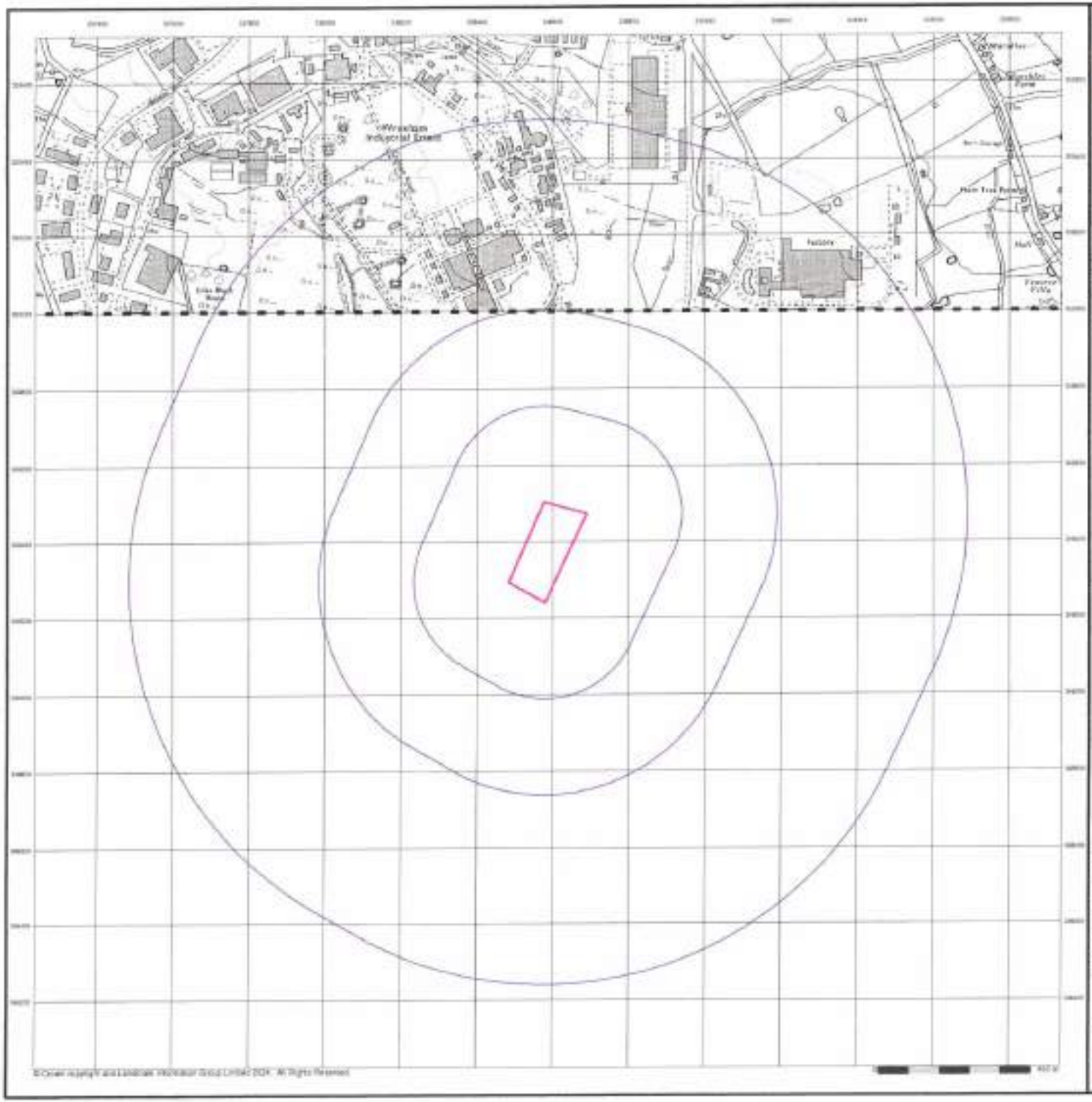


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Ordnance Survey Plan

Published 1983

Source map scale - 1:10,000

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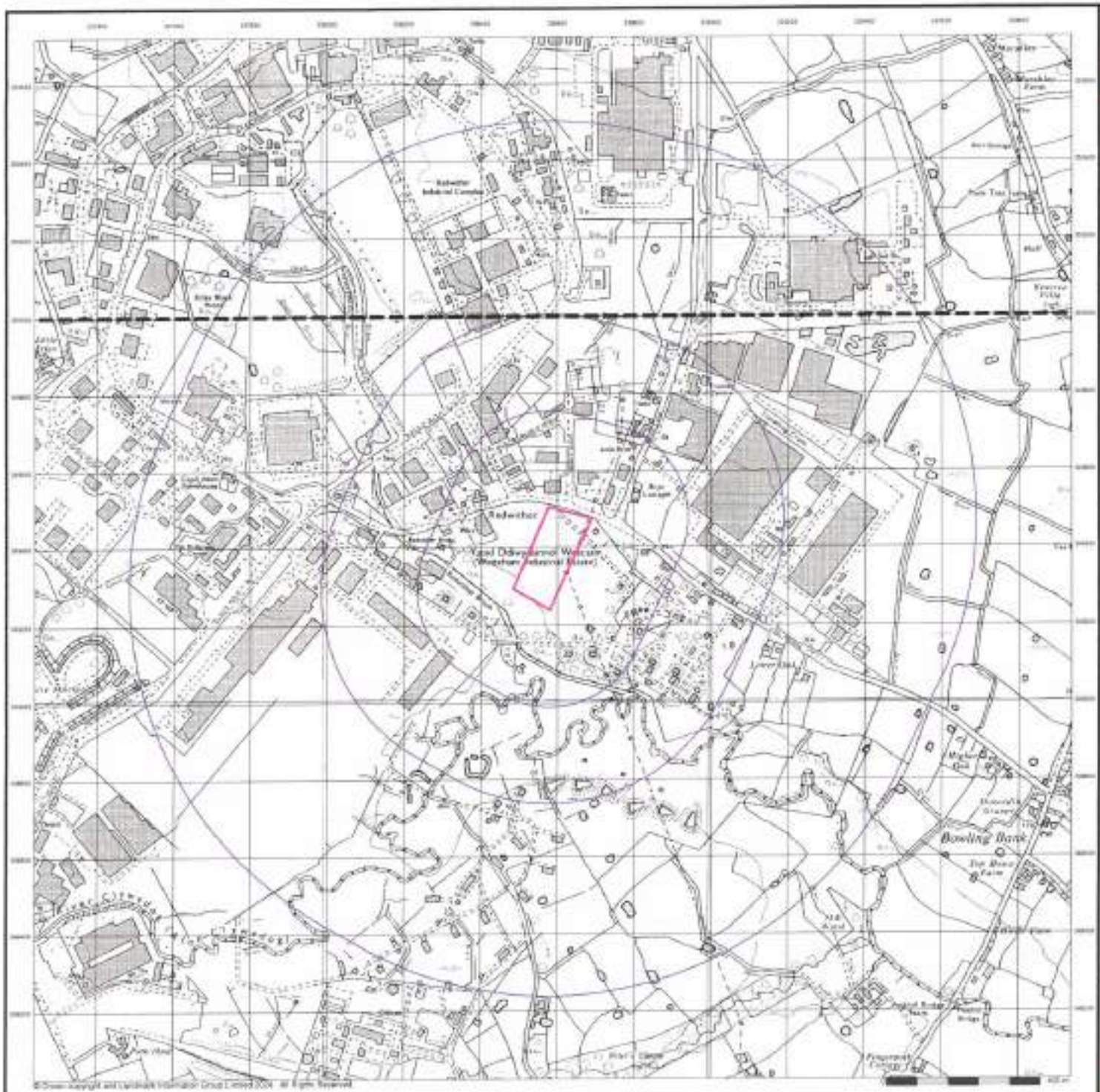


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Ordnance Survey Plan

Published 1992

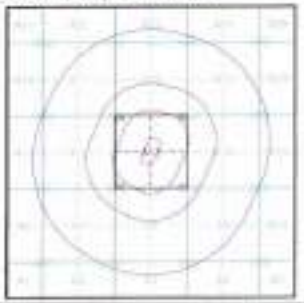
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Map Name(s) and Date(s)



Historical Map - Slice A

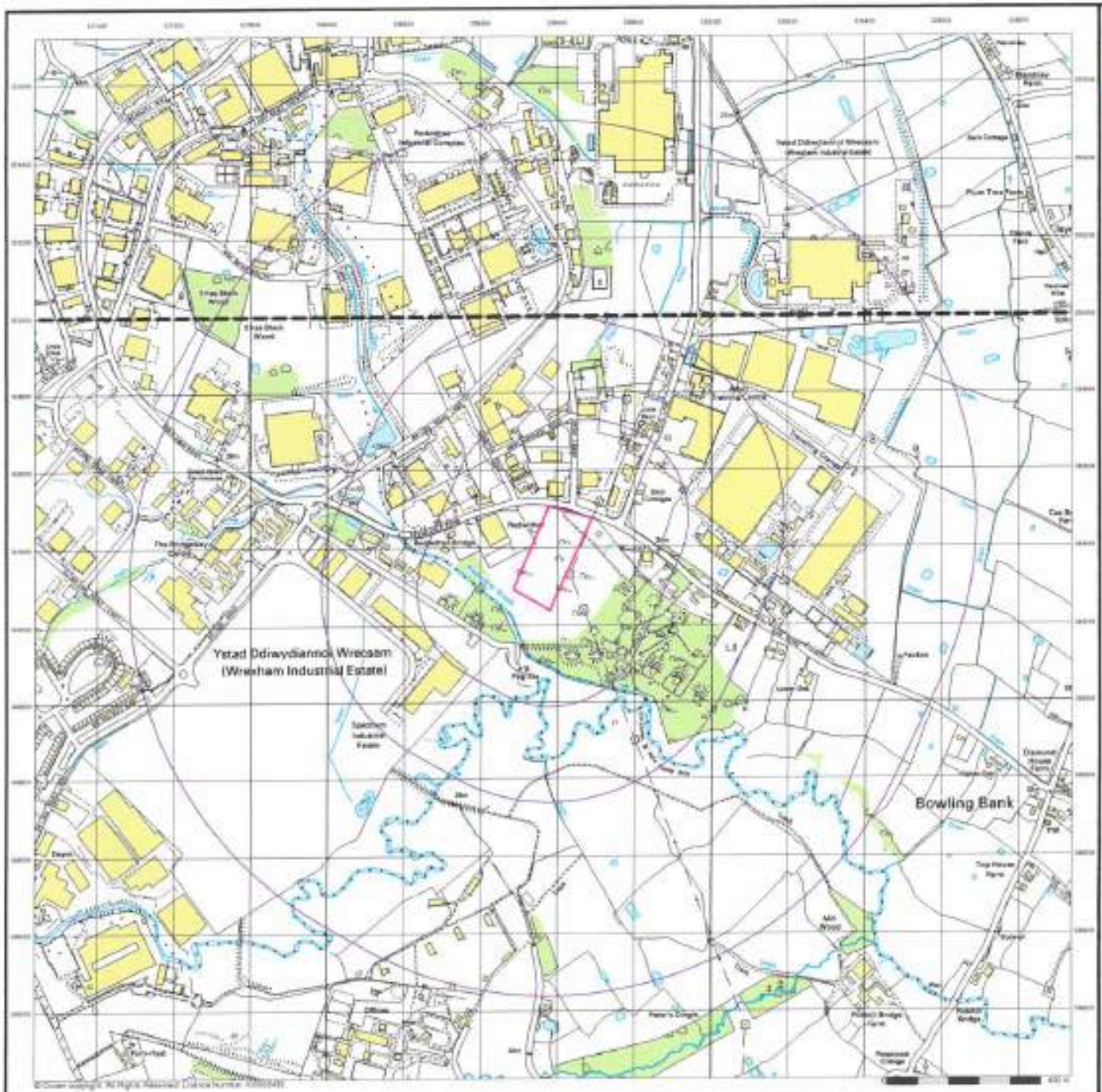


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10k Raster Mapping

Published 2000

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 1910. 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 depicted includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Street View

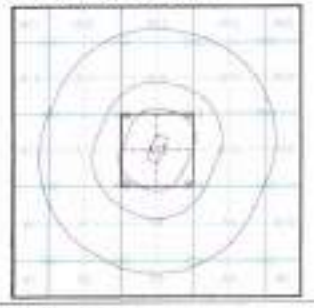
Published 2024

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice A



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Order Number:	338851652_1_1
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APPENDIX B

Envirocheck Environmental Database

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
339851652_1_1

Customer Reference:
S1911

National Grid Reference:
338590, 349380

Slice:
A

Site Area (Ha):
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Search Buffer (m):
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Site Details:

Higher Oak, Oak Road
Wrexham Industrial Estate
WREXHAM
LL13 9RG

Client Details:

Mr S Peters
Steven Peters Associates
1 Market Place
Warwick
CV34 4SA

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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency: it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.
In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		2	5	29
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices	pg 11		2		
Integrated Pollution Controls	pg 12			1	4
Integrated Pollution Prevention And Control	pg 12		10	9	5
Local Authority Integrated Pollution Prevention And Control	pg 18				1
Local Authority Pollution Prevention and Controls	pg 18		1	2	7
Local Authority Pollution Prevention and Control Enforcements	pg 20				2
Nearest Surface Water Feature	pg 20		Yes		
Pollution Incidents to Controlled Waters	pg 20		5	13	31
Prosecutions Relating to Authorised Processes	pg 28				1
Registered Radioactive Substances	pg 28		3	2	
River Quality	pg 29			2	
River Quality Biology Sampling Points	pg 30			1	
Substantiated Pollution Incident Register	pg 30		3	2	4
River Quality Chemistry Sampling Points					
Water Abstractions	pg 31		3	8	(*3)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 35	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 35	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 35	Yes	n/a	n/a	n/a
Source Protection Zones	pg 35	2		1	
Extreme Flooding from Rivers or Sea without Defences	pg 35		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 35		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 36		6	26	86

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 50				2
Integrated Pollution Control Registered Waste Sites	pg 50		2		
Licensed Waste Management Facilities (Landfill Boundaries)	pg 50			2	
Licensed Waste Management Facilities (Locations)	pg 51		10	12	3
Local Authority Landfill Coverage	pg 57	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 57				1
Registered Landfill Sites	pg 57			1	1
Registered Waste Transfer Sites	pg 58			1	
Registered Waste Treatment or Disposal Sites	pg 58		4	2	
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 61	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 61	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 61		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 61	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 61	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 61	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 61	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 61	Yes	n/a	n/a	n/a

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 62		22	34	117
Fuel Station Entries	pg 77			1	
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 78				3
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	0	1	338650 349377
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	0	1	338500 349300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	0	1	338588 349377
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	0	1	338600 349377
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	0	1	338588 349350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	15	1	338650 349500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	16	1	338650 349350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	55	1	338450 349250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	60	1	338750 349377
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	76	1	338700 349550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	110	1	338800 349377
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	125	1	338700 349200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	186	1	338750 349650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	192	1	338750 349150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	194	1	338800 349250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	237	1	338800 349150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	260	1	338800 349100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	303	1	338850 349100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	329	1	338850 349050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	344	1	338200 349100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	345	1	338400 349800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (SW)	345	1	338300 349000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	371	1	338900 349050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	379	1	338750 349850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	399	1	338900 349000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	415	1	338850 349050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (SW)	415	1	338250 348850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	431	1	338900 349850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9NW (SE)	440	1	338950 349000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9NW (SE)	459	1	338950 348950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (SW)	485	1	338200 348900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	496	1	338588 350000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	498	1	338050 349050
1	**Discharge Consents** Operator: Alan'S Skip Hire Wales Limited Property Type: Not Supplied Location: Wrexham Recycling Centere Rewither, Wrexham Recycling Centre, Redwither Road, Wrexham Industrial Estate, Wrexham, LI13 9rd Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0402201 Permit Version: Not Supplied Effective Date: 31st October 2002 Issued Date: 31st October 2002 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: The Redwither Brook **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	60	2	338474 349230
2	**Discharge Consents** Operator: Manweb Plc Property Type: SUB-STATION/ELECTRICITY/GAS/AIR CONDITIONING SUPPLY Location: Marchwiel Abbey Rd 33kv Sub-Station Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: CM0015701 Permit Version: Not Supplied Effective Date: 16th April 1963 Issued Date: 16th April 1963 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: Un-Named Trib.Of Redwither Bro **Status:** **Effective** Positional Accuracy: Located by supplier to within 100m	A13NW (N)	211	2	338500 349700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Unimaq Limited Property Type: Business Services Location: Stp Serving Unit 6 Pacific Park, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LI13 9pn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprmp3320gg Permit Version: 1 Effective Date: 2nd December 2011 Issued Date: 2nd December 2011 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Groundwater Via Drainage Mound **Status: New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A18SW (N)	367	2	338540 349869
3	**Discharge Consents** Operator: Unimaq Limited Property Type: OFFICES ADMIN + SUPPORT Location: Stp Serving Unit 6 Pacific Park, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LI13 9pn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Mp3320gg Permit Version: Not Supplied Effective Date: 2nd December 2011 Issued Date: 2nd December 2011 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Groundwater Via Drainage Mound **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A18SW (N)	367	2	338540 349869
4	**Discharge Consents** Operator: Bryn Lane Training Centre Property Type: Undefined Or Other Location: Bryn Lane Training Centre Wrexham I, Wrexham Ind Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0089601 Permit Version: 1 Effective Date: 20th March 1972 Issued Date: 20th March 1972 Revocation Date: 21st November 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Un-Named Trib. Of Isycoed Drai **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	387	2	338940 349770
5	**Discharge Consents** Operator: Norwest Holst Group Property Type: Civil Engineering Location: Wrexham Ind Estate Conran Ltd Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0086201 Permit Version: 1 Effective Date: 4th October 1979 Issued Date: 4th October 1979 Revocation Date: 28th April 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Trib. Of Rewither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A12NE (W)	436	2	338100 349500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Royalite Plastics Ltd Property Type: Undefined Or Other Location: Wrexham Ind Estate British Celanese, British Celanese Site Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0001801 Permit Version: 1 Effective Date: 31st January 1966 Issued Date: 31st January 1966 Revocation Date: 26th February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Trib.Of Redwither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	441	2	338130 349580
7	**Discharge Consents** Operator: Welsh Assembly Government Property Type: Not Supplied Location: Pcb Containment Cell Marlborough Rd, Marlborough Road, Wrexham Industrial Estate, Wrexham Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cm0149901 Permit Version: Not Supplied Effective Date: 24th August 2005 Issued Date: 23rd August 2005 Revocation Date: Not Supplied Discharge Type: Trade And Other Matter Discharge Discharge Environment: Freshwater Stream/River Receiving Water: Redwither Brook **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	509	2	338150 349780
7	**Discharge Consents** Operator: Welsh Development Agency Property Type: Other Electronic Equipment Location: Pcb Containment Cell Marlborough Rd, Marlborough Road, Wrexham Industrial Estate, Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0149901 Permit Version: 2 Effective Date: 28th March 1995 Issued Date: 28th March 1995 Revocation Date: 23rd August 2005 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	509	2	338150 349780
8	**Discharge Consents** Operator: Welsh Development Agency Property Type: Other Electronic Equipment Location: Pcb Containment Cell Marlborough Rd, Marlborough Road, Wrexham Industrial Estate, Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0149901 Permit Version: 1 Effective Date: 13th January 1997 Issued Date: 13th January 1997 Revocation Date: 27th March 1998 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	516	2	338100 349700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Discharge Consents** Operator: J K Industries Property Type: Rubber Tyre & Inner Tube Manufacture Location: Firestone Site Wrexham Ind Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0033801 Permit Version: 1 Effective Date: 20th May 1966 Issued Date: 20th May 1966 Revocation Date: 2nd February 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Clywedog **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	531	2	338280 348810
10	**Discharge Consents** Operator: Cpl Petroleum Property Type: Wholesale Distribution Fuels & Metals Location: Cpl Petroleum Bryn Lane Wrexham, Bryn Lane, Wrexham Ind Estate, LI13 9ut Authority: Natural Resources Wales Catchment Area: Not Given Reference: Cg038250101 Permit Version: 1 Effective Date: 1st July 1999 Issued Date: 1st July 1999 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Is Y Coed Brook **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	534	2	338880 349980
10	**Discharge Consents** Operator: Cpl Petroleum Property Type: Not Supplied Location: Cpl Petroleum Bryn Lane Wrexham, Bryn Lane, Wrexham Ind Estate, LI13 9ut Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0382501 Permit Version: Not Supplied Effective Date: 1st July 1999 Issued Date: 1st July 1999 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Is Y Coed Brook **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	534	2	338880 349980
11	**Discharge Consents** Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind. Estate - Discharg Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093601 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	560	2	339090 349780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind.Est.Dis.2 Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093602 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	579	2	338080 349800
12	**Discharge Consents** Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind. Estate - Discharg Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093606 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Miscellaneous Discharges - Surface Water Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	561	2	338190 349910
12	**Discharge Consents** Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind.Est.Dis.6 Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093607 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	570	2	338210 349940
13	**Discharge Consents** Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind.Est.Dis.6 Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093605 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	562	2	338160 349850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Discharge Consents** Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind. Estate - Discharg Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093604 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	563	2	338159 349679
14	**Discharge Consents** Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind. Estate - Discharg Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093603 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	579	2	338110 349630
15	**Discharge Consents** Operator: Ball Packaging Europe Uk Ltd Property Type: Undefined Or Other Location: Continental Can Co Ltd Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0085401 Permit Version: 2 Effective Date: 9th March 1994 Issued Date: 9th March 1994 Revocation Date: 21st January 2004 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A12NE (W)	586	2	337950 349530
15	**Discharge Consents** Operator: Continental Can Company Ltd Property Type: Undefined Or Other Location: Continental Can Co Ltd Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0085401 Permit Version: 1 Effective Date: 30th April 1979 Issued Date: 30th April 1979 Revocation Date: 8th March 1994 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	586	2	337950 349530

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Discharge Consents** Operator: Ellis V Property Type: Undefined Or Other Location: Bowling Bank Lower Oak Petrol Fill, Lower Oak Petrol Filling Station Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0041201 Permit Version: 1 Effective Date: 7th April 1967 Issued Date: 7th April 1967 Revocation Date: 24th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Un-Named Trib. Of Clywedog **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	594	2	339180 349120
17	**Discharge Consents** Operator: Wrexham County Borough Property Type: Not Supplied Location: Civic Amenity Site, Bryn Lane, Wrexham Industrial Estate, Wrexham, LI13 9ut Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0421601 Permit Version: Not Supplied Effective Date: 20th August 2004 Issued Date: 20th August 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: An Un-Named Stream **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A18NE (NE)	628	2	338892 350068
18	**Discharge Consents** Operator: Prysmian Cables & Systems Ltd Property Type: Not Supplied Location: Wrexham Ind Estate Wrexham Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: CM0041701 Permit Version: Not Supplied Effective Date: 4th October 1994 Issued Date: 4th October 1994 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Cooling Water Discharge Environment: Freshwater Stream/River Receiving Water: River Clywedog **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	629	2	339050 348820
19	**Discharge Consents** Operator: Bicc Cables Ltd Property Type: Insulated Wires & Cables Location: Wrexham Ind Estate Wrexham, Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0041701 Permit Version: 1 Effective Date: 25th April 1967 Issued Date: 25th April 1967 Revocation Date: 3rd October 1994 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: River Clywedog **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	629	2	339059 348829

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Discharge Consents** Operator: Mr D J Lightwood & Mrs A Kelleher-Lightwood Property Type: Domestic Property (Single) Location: Lower Oak Farm, Oak Road, Bowling Bank, Wrexham, Wales, LI13 9rg Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0435701 Permit Version: 1 Effective Date: 3rd October 2005 Issued Date: 3rd October 2005 Revocation Date: 3rd October 2017 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Ditch Via Part Soakway **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NW (SE)	659	2	339210 349030
20	**Discharge Consents** Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind Estate Factory/Coedaben, Factory/Coedaben Road Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0064501 Permit Version: 1 Effective Date: 27th April 1971 Issued Date: 27th April 1971 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Redwither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A12NW (W)	668	2	337850 349500
21	**Discharge Consents** Operator: Lend Lease Construction (Emea) Limited Property Type: General Construction Work Location: Ss/Ph Unit@North Wales Prison Proje, North Wales Prison Project, Bridge Road, Wrexham Industrial Estate, Wrexham, LI13 9qa Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprab3790hg Permit Version: 1 Effective Date: 18th March 2016 Issued Date: 18th March 2016 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: River Clywedog **Status: New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	694	2	338144 348688
21	**Discharge Consents** Operator: Lend Lease Construction (Emea) Limited Property Type: General Construction Work Location: Ss/Ph Unit@North Wales Prison Proje, North Wales Prison Project, Bridge Road, Wrexham Industrial Estate, Wrexham, LI13 9qa Authority: Natural Resources Wales Catchment Area: CLYWEDOG - DEE TO GWENFRO Reference: Ab3790hg Permit Version: 1 Effective Date: 18th March 2016 Issued Date: 18th March 2016 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: River Clywedog **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	694	2	338144 348688

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Discharge Consents** Operator: J K Industries Property Type: Civil Engineering Location: Firestone Site Wrexham Industrial E, Wrexham Industrial Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0033901 Permit Version: 1 Effective Date: 20th May 1966 Issued Date: 20th May 1966 Revocation Date: 2nd February 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Clywedog **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	770	2	338110 348620
23	**Discharge Consents** Operator: Kellogg Co Of Great Britain Ltd Property Type: Starch Location: Bryn Road Wrexham Ind Est Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0097401 Permit Version: 3 Effective Date: 6th July 1994 Issued Date: 6th July 1994 Revocation Date: 9th November 2006 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Un-Named Trib. Of Dee **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A23SE (N)	905	2	338700 350400
23	**Discharge Consents** Operator: Kellogg Co Of Great Britain Ltd Property Type: Starch Location: Bryn Road Wrexham Ind Est Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0097401 Permit Version: 1 Effective Date: 16th May 1984 Issued Date: 16th May 1984 Revocation Date: 29th September 1985 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Un-Named Trib. Of Dee **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A23SE (N)	905	2	338700 350400
23	**Discharge Consents** Operator: Kellogg Co Of Great Britain Ltd Property Type: Starch Location: Bryn Road Wrexham Ind Est Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0097401 Permit Version: 2 Effective Date: 30th September 1985 Issued Date: 16th May 1984 Revocation Date: 5th July 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Un-Named Trib. Of Dee **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A23SE (N)	905	2	338700 350400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	**Discharge Consents** Operator: Pochins (Design And Build) Ltd Property Type: Undefined Or Other Location: Plot 6 Wrexham Ind Est, Clywedog Road Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0207401 Permit Version: 2 Effective Date: 29th January 1990 Issued Date: 29th January 1990 Revocation Date: 6th May 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Stream Nr Redwither Brook **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A11NE (W)	992	2	337520 349520
24	**Discharge Consents** Operator: Pochins (Design And Build) Ltd Property Type: Undefined Or Other Location: Plot 6 Wrexham Ind Est, Clywedog Road Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0207401 Permit Version: 1 Effective Date: 1st January 1901 Issued Date: 1st January 1901 Revocation Date: 28th January 1990 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Stream Nr Redwither Brook **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A11NE (W)	992	2	337520 349520
25	**Prosecutions Relating to Controlled Waters** Location: Red Wither Brook, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LI13 9 Prosecution Text: Liquid Waste Collected And Flushed Into A Septic Tank Designed For Domestic Waste Prosecution Act: Wra91 S85(1) & S85(6) Hearing Date: 14th February 2003 Verdict: Guilty Fine: 100000 Cost: 114818 Positional Accuracy: Manually positioned within the geographical locality	A12NE (W)	358	3	338172 349469
26	**Prosecutions Relating to Controlled Waters** Location: Coed Aben Road, Coed Aben Road, WREXHAM, Clwyd, LL13 9UH Prosecution Text: Ea Welsh Data 02/09/1999, Polluting Red Wither Brook With Trade Effluent Pollutants. Offence Committed 06/11/1991. Given A Caution. Prosecution Act: Wra91 S85 Hearing Date: Not Supplied Verdict: Guilty Fine: Not Supplied Cost: Not Supplied Positional Accuracy: Manually positioned to the road within the address or location	A12NW (W)	893	3	337865 349645
27	**Enforcement and Prohibition Notices** Location: Clinical Waste Incinerator, Marlborough Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Permit Reference: Sm43/01kc Enforcement Date: 18th February 2001 Details: Company Served Notice Following Disposal Of Liquid Waster By Methods Other Than Incineration. The Notice Requires The Company To Only Dispose Of Liquid Waste As Per Their Authorisation. Positional Accuracy: Manually positioned to the road within the address or location	A13NW (N)	186	3	338529 349683
27	**Enforcement and Prohibition Notices** Location: Clinical Waste Incinerator, Malborough Road, WREXHAM, Clwyd, LL13 9RJ Permit Reference: Not Supplied Enforcement Date: 22nd September 2000 Details: Enforcement Notice Srewd Following The Identification Of Actual And Potential Contraventions Of The Authorisation With Regard To Monitoring Of Emissions. The Notice Requires A Programme Of Improvements To Ensure Compliance With Monitoring Requirements. Positional Accuracy: Manually positioned to the road within the address or location	A13NW (N)	188	3	338535 349687

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	**Integrated Pollution Controls** Name: Bicc Cables Ltd Location: Oak Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9PH Authority: Environment Agency, Welsh Region Permit Reference: AS6322 Dated: 26th July 1995 Process Type: IPC new application Description: 2.2 A (D) Non-ferrous Metal processes within the Metal Industry **Status: Application received by HMIP but is not yet authorised** Positional Accuracy: Automatically positioned to the address	A14NW (E)	425	3	338105 349568
29	**Integrated Pollution Controls** Name: Stadex Industries Ltd Location: Coed Aben Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9UH Authority: Environment Agency, Welsh Region Permit Reference: BF1220 Dated: 8th June 1999 Process Type: IPC new application Description: 6.2 A (D) Di-isocyanate processes within Miscellaneous Industries **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the road within the address or location	A12NW (W)	806	3	337720 349546
30	**Integrated Pollution Controls** Name: Hydro Aluminium Deeside Ltd Location: Bridge Road, Wrexham Industrial Estate, WREXHAM, Wrexham, LL13 9PS Authority: Environment Agency, Welsh Region Permit Reference: BD8312 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 2.2 A (A) Non-ferrous Metal processes within the Metal Industry **Status: Revoked - Now IPPC** Positional Accuracy: Automatically positioned to the address	A12SW (W)	862	3	337624 349263
30	**Integrated Pollution Controls** Name: Hydro Aluminium Deeside Ltd Location: Bridge Road South, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9SQ Authority: Environment Agency, Welsh Region Permit Reference: AS4117 Dated: 4th December 1996 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 2.2 A (A) Non-ferrous Metal processes within the Metal Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A12SW (W)	866	3	337619 349268
30	**Integrated Pollution Controls** Name: Hydro Aluminium Deeside Ltd Location: Bridge Road South, Wrexham Industrial Estate, WREXHAM, LL13 9PS Authority: Environment Agency, Welsh Region Permit Reference: AX6443 Dated: 1st May 1997 Process Type: IPC major (substantial) variation Description: 2.2 A (A) Non-ferrous Metal processes within the Metal Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A12SW (W)	867	3	337619 349263
31	**Integrated Pollution Prevention And Control** Name: Polkacrest Limited Location: Wrexham Clinical Waste Incinerator, Sterile Technologies (Newcastle) Ltd, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: VP3739XC Original Permit Ref: Ap3538am Effective Date: 21st January 2008 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A13NW (N)	192	2	338544 349693

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	**Integrated Pollution Prevention And Control** Name: Sita Healthcare Limited Location: Wrexham Clinical Waste Treatment Facility (Incinerator), Wrexham Clinical Waste Treatment Facility (Incinerator), Marlborough Road,,Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: QP3933NZ Original Permit Ref: Wp3836zf Effective Date: 22nd April 2013 **Status: Effective** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A13NE (N)	198	2	338600 349700
32	**Integrated Pollution Prevention And Control** Name: Sita Uk Limited Location: Wrexham Clinical Waste Incinerator, Sterile Technologies (Newcastle) Ltd, Marlborough Road,,Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: MP3635FQ Original Permit Ref: Mp3239fq Effective Date: 20th October 2011 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Located by supplier to within 100m Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A13NE (N)	198	2	338600 349700
32	**Integrated Pollution Prevention And Control** Name: Sita Uk Limited Location: Wrexham Clinical Waste Incinerator, Sterile Technologies (Newcastle) Ltd, Marlborough Road,,Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: MP3239FQ Original Permit Ref: Mp3239fq Effective Date: 12th May 2011 **Status: Superseded By Variation** Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Located by supplier to within 100m Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A13NE (N)	198	2	338600 349700
33	**Integrated Pollution Prevention And Control** Name: Wrexham Clinical Waste Treatment Facility (Incinerator) Location: Wrexham Clinical Waste Treatment Facility (Incinerator), Wrexham Clinical Waste Treatment Facility (Incinerator), Marlborough Road,,Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: WP3835ZF Original Permit Ref: Not Supplied Effective Date: 22nd December 2022 **Status: Effective** Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 5.1 PART A (1) A) Activity Description: Not Supplied Primary Activity: Y	A18SE (N)	248	2	338600 349750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**Integrated Pollution Prevention And Control** Name: Wrexham Clinical Waste Treatment Facility (Hdu & Ts) Location: Wrexham Clinical Waste Treatment Facility (Hdu & Ts), Wrexham Clinical Waste Treatment Facility (Hdu & Ts), Marlborough Road,, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: WP3636ZG Original Permit Ref: Not Supplied Effective Date: 28th June 2021 **Status:** **Effective** Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Not Supplied Primary Activity: N Activity Code: 5.3 A(1) a) (i) Activity Description: Not Supplied Primary Activity: Y	A18SE (N)	248	2	338605 349750
33	**Integrated Pollution Prevention And Control** Name: Polkacrest Wales Limited Location: Wrexham Clinical Waste Treatment Plant And Transfer Station, Wrexham Clinical Waste Treatment Plant And Transfer Station, Marlborough Road,Wrexham Industrial Estate,, Wrexham, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: RP3035FV Original Permit Ref: Rp3237sz Effective Date: 27th October 2011 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.3 A(1) (A) Activity Description: Other Waste Disposal; Hazardous Waste Greater Than 10T/D Primary Activity: Y	A18SE (N)	248	2	338605 349750
33	**Integrated Pollution Prevention And Control** Name: Attero Services Ltd Location: Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: GP3335MA Original Permit Ref: Ap3538sm Effective Date: 15th December 2006 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A18SE (N)	248	2	338605 349750
33	**Integrated Pollution Prevention And Control** Name: Polkacrest Wales Limited Location: Wrexham Clinical Waste Treatment Plant And Transfer Station, Wrexham Clinical Waste Treatment Plant And Transfer Station, Marlborough Road,Wrexham Industrial Estate,, Wrexham, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: Rp3237sz Original Permit Ref: Rp3237sz Effective Date: 23rd June 2006 **Status:** **Superseded By Variation** Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 5.3 A(1) (A) Activity Description: Other Waste Disposal; Hazardous Waste Greater Than 10T/D Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A18SE (N)	248	2	338605 349750