



adeptus
ENVIRONMENTAL

LAND CONTAMINATION PHASE 1 DESK STUDY

GARAGE AT ROSEBERY AVENUE

**LINCOLN
LINCOLNSHIRE
LN1 1ND**

On behalf of:

Frog Letting Limited

Report No.: A240102-R01

Date: February 2024

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1. INTRODUCTION

1.1 Background & Objectives

Adeptus was appointed to undertake a Land Contamination Phase 1 Desk Study on behalf of Frog Letting Limited, in support of a planning application for development at the site known as Garage at Rosebery Avenue (the study site). The report is required to assess the potential for significant contamination affecting the site and ensure suitability for the proposed use.

The objectives of the desk study are to:

- Review past land use on and in proximity to the study site
- Assess the likelihood of contamination, as well as its potential nature and extent
- Evaluate the site geological, environmental and land use setting
- Develop an initial conceptual site model
- Undertake a preliminary risk assessment in line with LCRM guidance
- Determine whether further investigation is required

1.2 Regulatory Framework

Land contamination is a material consideration under the National Planning Policy Framework (2012). This means that local authorities must take the potential or actual presence of contamination into account when considering planning applications.

“Contamination” is defined in BS 10175:2011 as:

presence of a substance or agent, as a result of human activity, in, on or under land, which has the potential to cause harm or to cause pollution.

1.3 Supporting Information

At the time of writing, no third-party reports have been made available to Adeptus.

A site plan is included as Appendix A.

Other sources of information utilised in producing this report are listed as Appendix B.

1. SITE CONTEXT

This section provides a review of the land use on and in the vicinity of the Site, with the purpose of identifying potentially significant current features and environmental constraints.

2.1 Location and Proposals

Table 2-1: Site Particulars

Location	The site is situated in a predominantly residential area to the northwest of Lincoln.
Area & Coordinates	0.02 ha 496566 371948 (centred on, approx.)
Development Proposals	Demolition of existing garage and erection of a 3no. bed dwelling.

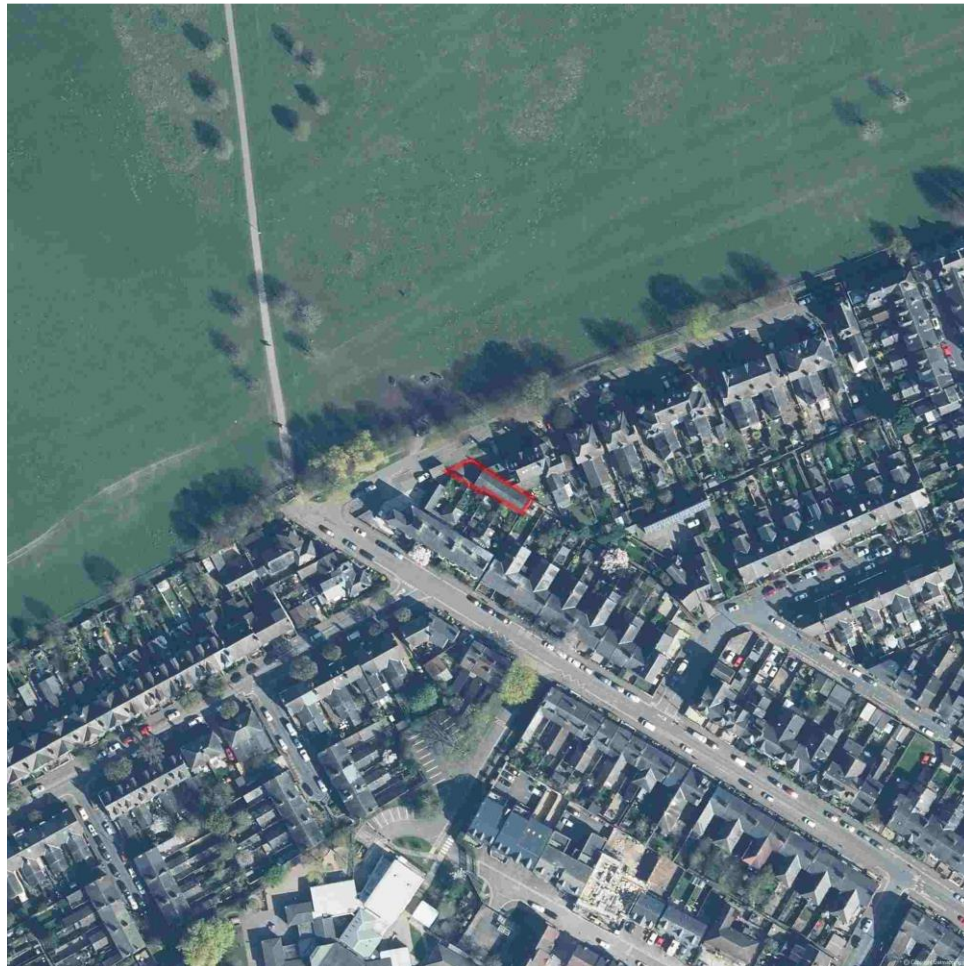


Figure 2-1: Site Location

2.2 Site Reconnaissance

A site walkover carried out and the findings are noted in Table 2-2, below, with any photos included as Appendix C.

Table 2-2: Site Walkover Observations

Date: 16/01/2024	Notes
Current/Recent Land Use	On-site: Large former garage currently used as amenity and domestic storage space.
	North: Playing fields beyond Roseberry Ave.
	East: Dwellings with gardens.
	South: Dwellings with gardens.
	West: Dwellings with gardens.
Topography	Generally flat and level.
Ground Cover Proportions On-site	Buildings: 85%
	Hardstanding: 15% - driveway/apron to the front elevation.
	Soft Landscaping: -
Drainage & Utilities	The garage has a domestic electricity supply thought to enter from the dwelling to which it belongs. Downpipes enter the ground and are presumed to discharge to the drainage network.
Fuel and/or Chemical Storage	None evident during site walkover.
Off Site Potential Contaminant Sources	None evident during site walkover.
Visual or olfactory evidence of contamination	None evident during site walkover.
Asbestos Containing Material (ACM)	None evident during site walkover. Upon inspection the current roof covering and underlying structure are relatively new and certainly not the original article. The roof covering consists of modern concrete tiles.
Vegetation & Potential Invasive Flora	No signs of vegetation stress were noted. No invasive species were evident during the site walkover.

3. PAST LAND USE

3.1 Historical Development

Historical Ordnance (OS) Survey map extracts have been examined to provide a summary of significant land use on and in proximity to the site, including industrial features within 100m and potential landfills within 250m.

Where available, more recent aerial photographs have also been reviewed for evidence of relevant land use.

Potentially significant features are noted in the table below. Where more than one instance of the same use occurs in the same direction, only the closest has been described.

Table 3-1: Historical Development Summary

On-site Source or Feature	Map Years Noted		Description
	First	Last	
Undeveloped land	1889	1889	The study site initially falls within an agricultural fields system.
Outbuilding	1907	Today	By 1907 the local area has been developed with the housing that remains today. A small outbuilding falls within the site. By 1932 the outbuilding looks to have been extended, now having the same footprint as today although comprised of several smaller sections. The 1965 OS map shows a single monolithic structure.

Off-site Source – Distance & Direction	Map Years Noted		Description
	First	Last	
Unspecified groundworking – 100m S	1889	1889	A large area of groundworking is shown with some small structures and a road at the centre, with pond forming to the south. By 1907 the local area has been developed with the housing that remains today and there is no sign of the groundworking.
Electricity Substation – 1m W	1981	Today	The unit remains facing onto Roseberry Ave. today. As a modern unit this would not contain PCBs and is not considered a potential source.

3.2 Landfill & Waste Sites

Landfills and other potentially significant waste sites identified within 250m of the site are reviewed in table below.

Table 3-2: Data on Landfill & Waste Sites

Records	Details & Significance
<ul style="list-style-type: none"> • Active or recently closed landfills: 0 • BGS/DOE historical landfills: 0 • Local Authority(OS) historical landfill: 0 • EA/NRW historical landfills: 0 • EA/NRW current/recent landfills: 0 • Historical permissioned waste sites: 0 • Active or recently waste sites: 0 • Waste exemptions: 0 	<p><i>There are no significant records within the search distance.</i></p>

3.3 Industrial Features & Records

Industrial features indicating an increased likelihood of the presence of contamination, pollution incidents, and sites determined as contaminated land by a statutory authority, within 100m, are reviewed in table below.

Table 3-3: Industrial Data

Records	Details & Significance
<ul style="list-style-type: none"> • Current industrial sites: 1 • Current or recent petrol stations: 0 • Electricity cables: 0 • Gas pipelines: 0 • Sites determined as Contaminated Land: 0 • COMAH Sites: 0 • Regulated explosive sites: 0 • Hazardous substance storage: 0 • Integrated Pollution Control (IPC) records: 0 • Part A(1) permitted installations: 0 • Licensed pollutant releases (Part A(2)/B): 0 • Radioactive substance authorisations: 0 • Licensed discharges to controlled waters: 0 • Pollutant discharge to surface waters: 0 • Pollutant release to public sewer: 0 • List 1/2 dangerous substances discharge: 0 • Pollution incidents: 0 • Pollution inventory reporting: 0 	<p><u><i>Industrial sites</i></u></p> <p>The record is of the Electricity Substation 1m W</p>

4. ENVIRONMENTAL SETTING

The site's environmental and geological setting are reviewed characterise probable pathways and receptors, as well as identify relevant contaminant sources.

4.1 Geology & Geohazards

Published Geology

Data held by the British Geological Survey (BGS) indicate the site is underlain by the geological sequence summarised in the table below.

Table 4-1: Summary of Published Geology

Geological Unit	Description	Composition	Location
• Superficial/Drift:	None mapped	N/A	On site
• Bedrock/Solid:	Charmouth Mudstone Formation	Mudstone	On site

Geohazards

Potential health and environmental hazards relating to recorded or unrecorded mine workings, artificial ground and permanent gases are reviewed in the table below.

Table 4-2: Environmental Geohazards

Potential Geohazard	Details & Significance
• Coal Mining Legacy	The site is not located within 75m of a Coal Authority identified mining area.
• Infilled or Made Ground	The site is not anticipated to be affected by Made Ground.
• Ground Gas Potential	The natural geological strata identified above not considered a significant source of permanent ground gases such as methane or carbon dioxide. Due to being infilled before 1907, the former ground working 100m S is not considered a potential source of current gas generation or flux.

4.2 Controlled Waters

4.2.1 Groundwater

Designated groundwater aquifers underlying the site are reviewed in the table below, along with any licenced abstractions and source protection zones.

Table 4-3: Aquifers, Abstractions & Protection Zones

Records		Details & Significance
• Superficial Aquifer:	N/A	No superficial deposits mapped.
• Bedrock Aquifer:	Secondary B	Predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers.
• Groundwater Abstractions Licenses: 0		-
• Surface Water Abstractions Licenses: 0		
• Potable Water Abstractions Licenses: 0		
• The site is not within a SPZ		

4.2.2 Surface Waters

Local surface water features and flood risk zones are reviewed in the table below.

Table 4-4: Surface Waters & Flood Risk Zones

Surface Waters	Details & Significance
• None within 250m	Surface waters are at significant distance.
• The site is in Flood Zone 1	Very low risk of flooding, with an annual probability according to the EA/NRW of less than 0.1%.

4.3 Protected Sites

4.3.1 Designated Environmental & Heritage Sites

Statutory protected environmental and heritage sites within 250m are reviewed in the table below.

Table 4-5: Statutory Protected Sites

Feature	Details & Significance
<ul style="list-style-type: none"> • Ramsar sites: 0 • Special Areas of Conservation (SAC): 0 • Special Protection Areas (SPA): 0 • National Nature Reserves (NNR): 0 • Local Nature Reserves (LNR): 0 • Designated Ancient Woodland: 0 • World Heritage Sites: 0 • Listed Buildings: 0 	There are no further significant features within the search distance.

4.4 Summary Environmental Sensitivity

Table 4-6: Site Sensitivity Assessment

Aspect	Environmental Sensitivity
• Hydrogeology	<u>Low</u> . Secondary B bedrock strata with no superficial deposits.
• Hydrology	<u>Low</u> . No mapped surface waters within 250m.
• Environmental Designations	<u>Low</u> . None within 250m.
• Local Land Use	<u>High</u> . The wider area is generally residential.
• Proposed Use	<u>High</u> . Residential with garden.
Overall Environmental Sensitivity:	Moderate to High

5 INITIAL CONCEPTUAL SITE MODEL

For a conceptual risk of harm to human health or the environment to exist within the context of LCRM, all of the following elements must be present:

- a source – i.e., a substance (contaminant(s)) that is capable of causing pollution or adverse health effects;
- a receptor - i.e., something which could be adversely affected by the source; and
- a pathway – i.e., a route by which the contaminant could come into contact with, or affect, the receptor.

Information on these three elements is used to form an initial conceptual site model (CSM) and identify potentially significant contaminant linkages.

5.1 Pollutant Linkage Assessment

Based on the information presented in sections 2 and 3, the following potential sources, receptors and relevant pathways for exposure are identified in relation to the development.

5.1.1 On-Site Potential Sources of Contamination

The building is significantly larger than a typical domestic garage and use for activities such as vehicle maintenance could give rise to contamination of the site underlying. Potential contaminants include hydrocarbons, metals/metalloids and PAHs.

5.1.2 Off-Site Potential Sources of Contamination

No significant off-site sources have been identified.

2.1.1 Potential Receptors

Potential receptors relevant to the documented history, potential sources, site-setting and proposed use include:

- **Human Health:** residential end users; nearby land users; construction workers
- **Controlled Waters:** underlying aquifer
- **Property** in the form of buildings and structures
- **Flora** within soft landscaping

2.1.2 Potential Pathways

The primary pathways relevant to the identified potential sources and receptors are:

- **Ingestion**
- **Dermal contact**
- **Inhalation**
- **Surface water infiltration:** leaching/migration

5.2 Preliminary Risk Assessment

Qualitative assessment of the risks posed by the potentially significant pollutant linkages identified in Section 5.1 is summarised in the table below. Risk classification is a function of the severity of a potential environmental or health effect, and the likelihood or frequency of its occurrence.

Table 5-3. Preliminary Risk Assessment

Source	Pathway	Receptor	Consequence	Likelihood	Classification*	Rationale
Organic and inorganic contaminants potentially present in soils and/or made ground	Dermal contact, ingestion, particulate inhalation	Nearby occupants & site users	Medium	Unlikely	Low Risk	<p>There is unlikely to be an acute risk to construction workers and off-site receptors from particulates liberated during groundworks.</p> <p>However, development of the site for residential use introduces the possibility of sensitive receptors such as young children being exposed to contaminants in near surface soils should they be present.</p> <p>The growing of produce is very unlikely given limited space and small areas of soft landscaping proposed.</p> <p>Flora may be affected by contaminants such as phytotoxic metals.</p> <p>No suspected sources of volatile contaminants, such as tanks, have been directly identified in proximity to the site.</p> <p>It is also likely that any historical near surface sources would have been significantly attenuated by natural processes over time, including volatilisation and microbial degradation.</p> <p>The likelihood of sources capable of acute effects on construction workers (e.g. via excavations) is very low.</p> <p>Water supply pipes may be sited in media containing contaminants capable of permeating standard polyethylene pipes.</p>
		Residential end users	Medium	Likely	Moderate Risk	
	Medium		Unlikely	Low Risk		
	Consumption of home grown produce	Flora within future gardens/	Minor	Low Likelihood	Low Risk	
	Uptake from root zone		Medium	Unlikely	Low Risk	
	Migration of vapours via strata, structures or services; subsequent inhalation	Water supply pipes	Medium	Low Likelihood	Moderate/ Low Risk	

*in the absence of mitigation or remedial measures

Source	Pathway	Receptor	Consequence	Likelihood	Classification*	Rationale
Cont'd	Leaching and/or migration via unsaturated zone	Groundwater	Medium	Unlikely	Low Risk	Superficial deposits are absent and bedrock is designated Secondary B.
	Leaching and/or migration via and migration via runoff or drainage network	Surface waters	Medium	Unlikely	Low Risk	However, the established site history is considered unlikely to have produced a source of significant mobile and/or leachable contamination underlying the site. There are no abstractions within 500m and the site is not in an SPZ. Mapped surface water features are at significant distance.
Aggressive ground (e.g. sulphate; pH)	Direct contact/ chemical attack	Buildings/ services	Mild	Low Likelihood	Low Risk	Made Ground may present a source of aggressive contaminants.

*in the absence of mitigation or remedial measures

6 CONCLUSIONS

6.1 Risk Assessment Summary

Adeptus was appointed by Frog Letting Limited to undertake a Geo-Environmental Phase 1 Desk Study in support of a planning application for development at the site known as Garage at Rosebery Avenue.

On the basis of the available information, potential contaminant linkages have been identified. However, it is considered that relatively simple mitigation measures should be feasible based on the outcome of subsequent quantitative assessment.

A small outbuilding appeared on the study site by 1907, and by 1932 looks to have been extended to the same footprint as today. The building is significantly larger than a typical domestic garage and use for activities such as vehicle maintenance could give rise to contamination of the site underlying. Potential contaminants include hydrocarbons, metals/metalloids and PAHs.

A former ground working 100m S is not considered a potential source of current gas generation or flux, as it was infilled before 1907.

An asbestos survey (as defined by the Control of Asbestos Regulations, 2012) is beyond the scope of this report, and any potential asbestos containing materials identified during the walkover have been noted for information only. Contaminated land risk assessment is undertaken on the basis that asbestos present within the fabric of buildings will be managed in accordance with prevailing regulation, and therefore not allowed to contaminate soils.

N.B.: This summary forms part of the overall assessment and should be read in conjunction with the main report and supporting information.

6.2 Recommendations

It is recommended that further assessment of the potentially significant contaminant linkages highlighted in Section 5.2 is undertaken in order to further characterise the potential risks identified.

This should be achieved by intrusive investigation to address the potentially significant source areas summarised Section 5.1 and described throughout this report, to enable quantitative screening in respect of the relevant pathways.

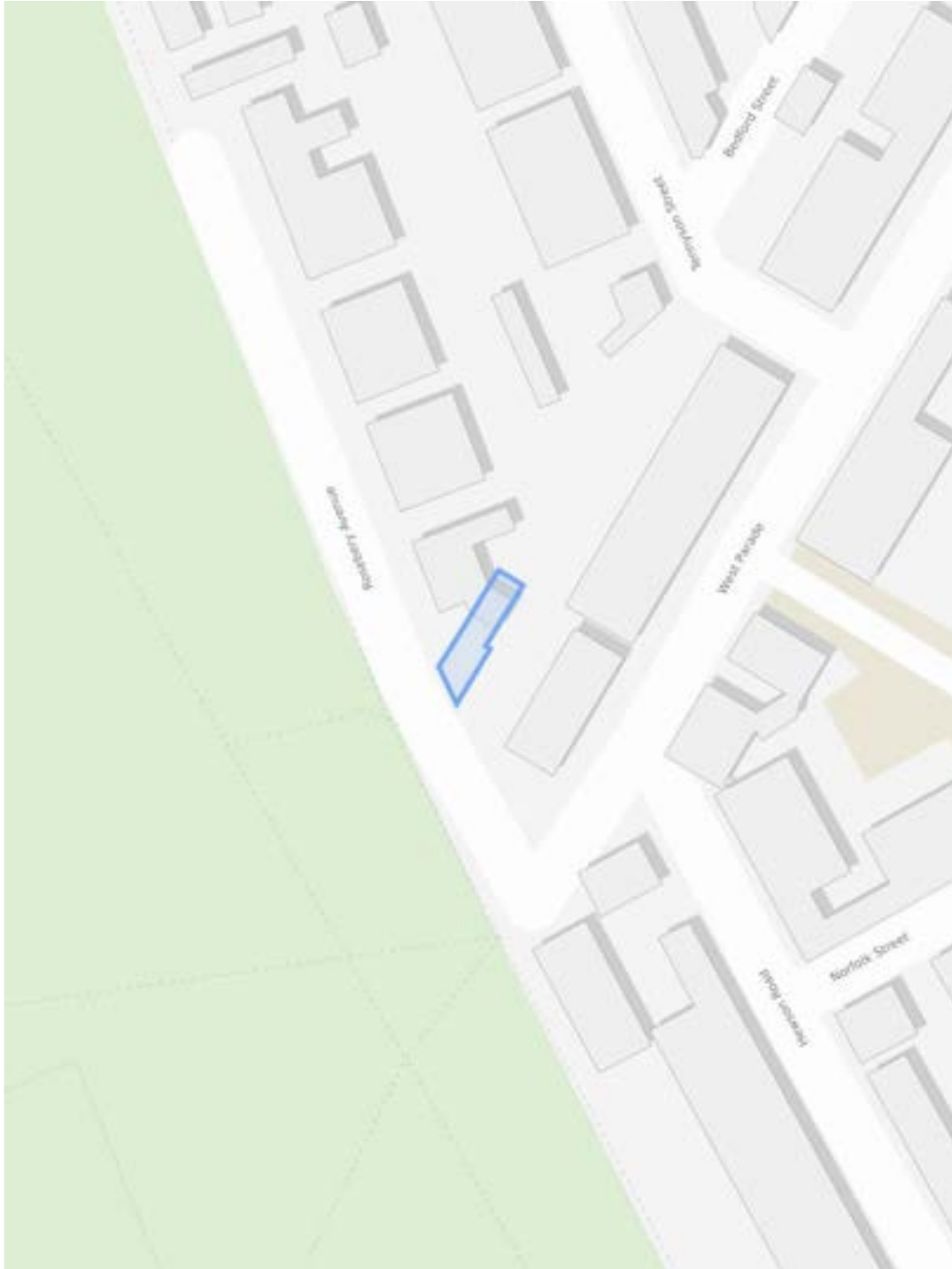
A proportionate Phase 2 intrusive site investigation may be undertaken, with the following objectives:

- Characterise any Made Ground, as well as natural strata underlying the site
- Obtain data on soil chemical composition
- Enable environmental monitoring as required
- Update and refine the initial conceptual site model
- Provide data to enable basic waste characterisation in line with waste duty of care requirements if required at the construction stage.

However, it is considered that this can be best achieved in the early construction phase, when site clearance has been undertaken and access is available across the full site for intrusive works and on-site PID screening of samples.

Findings of the Phase 2 investigation and risk assessment will determine whether remediation or mitigation measures are required, in line with Environment Agency LCRM.

APPENDIX A – SITE PLAN



APPENDIX B – SUPPORTING INFORMATION

In compiling this report the following data sources have been consulted.

- Groundsure Enviro Insight Report (Appendix B1)
- Historical Ordnance Survey Maps (Appendix B2)
- Ordnance Survey Trade Directories
- British Geological Survey data, maps and memoirs
- Environment Agency and Local Authority designations, registers and permissions
- Site reconnaissance – walkover

This report is based on information available at the time of writing and is subject to the limitations set out in Appendix C. In general, the listed information sources have been accessed via the Enviro Insight Report.

Appendix B1 – Enviro Insight Report

GARAGE, ROSEBERY AVENUE, LINCOLN, LN1 1ND

Order Details

Date: 12/01/2024
Your ref: Garage_Rosebery_Avenue_Lincoln
Our Ref: GS-ER4-PM8-IIJ-VRI

Site Details

Location: 496566 371948
Area: 0.02 ha
Authority: [City of Lincoln Council](#) ↗



Summary of findings

[p. 2 >](#)

Aerial image

[p. 9 >](#)

OS MasterMap site plan

[p.14 >](#)

groundsure.com/insightuserguide ↗

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	0	0	1	34	-
17 >	1.2 >	Historical tanks >	0	0	0	7	-
18 >	1.3 >	Historical energy features >	0	1	1	4	-
18 >	1.4 >	Historical petrol stations >	0	0	1	0	-
19 >	1.5 >	Historical garages >	0	0	6	2	-
19	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
20 >	2.1 >	Historical industrial land uses >	0	0	1	42	-
22 >	2.2 >	Historical tanks >	0	0	0	13	-
23 >	2.3 >	Historical energy features >	0	2	1	7	-
24 >	2.4 >	Historical petrol stations >	0	0	1	0	-
24 >	2.5 >	Historical garages >	0	0	10	4	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
26 >	3.1 >	Active or recent landfill >	0	0	0	1	-
27	3.2	Historical landfill (BGS records)	0	0	0	0	-
27	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
27 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	1	-
28 >	3.5 >	Historical waste sites >	0	0	0	1	-
28	3.6	Licensed waste sites	0	0	0	0	-
28 >	3.7 >	Waste exemptions >	0	0	0	16	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
30 >	4.1 >	Recent industrial land uses >	0	1	2	-	-
31 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
31	4.3	Electricity cables	0	0	0	0	-
31	4.4	Gas pipelines	0	0	0	0	-
31 >	4.5 >	Sites determined as Contaminated Land >	0	0	0	1	-



32	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
32 >	4.7 >	Regulated explosive sites >	0	0	0	1	-
32	4.8	Hazardous substance storage/usage	0	0	0	0	-
33 >	4.9 >	Historical licensed industrial activities (IPC) >	0	0	0	1	-
33	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
33 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	1	3	-
34 >	4.12 >	Radioactive Substance Authorisations >	0	0	0	11	-
36 >	4.13 >	Licensed Discharges to controlled waters >	0	0	0	1	-
36	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
36	4.15	Pollutant release to public sewer	0	0	0	0	-
36	4.16	List 1 Dangerous Substances	0	0	0	0	-
37 >	4.17 >	List 2 Dangerous Substances >	0	0	0	1	-
37	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
37	4.19	Pollution inventory substances	0	0	0	0	-
37	4.20	Pollution inventory waste transfers	0	0	0	0	-
38	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
39 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
40 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
41 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
42	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
42	5.5	Groundwater vulnerability- local information	None (within 0m)				
43	5.6	Groundwater abstractions	0	0	0	0	0
44 >	5.7 >	Surface water abstractions >	0	0	0	0	18
47	5.8	Potable abstractions	0	0	0	0	0
48 >	5.9 >	Source Protection Zones >	0	0	0	2	-
48	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
49	6.1	Water Network (OS MasterMap)	0	0	0	-	-



49	6.2	Surface water features	0	0	0	-	-
50 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
50 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
51 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
52	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
52	7.2	Historical Flood Events	0	0	0	-	-
52	7.3	Flood Defences	0	0	0	-	-
53	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
53	7.5	Flood Storage Areas	0	0	0	-	-
54	7.6	Flood Zone 2	None (within 50m)				
54	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
55 >	8.1 >	Surface water flooding >	1 in 250 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding >					
57 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
58	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
58	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
58	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
58	10.4	Special Protection Areas (SPA)	0	0	0	0	0
59	10.5	National Nature Reserves (NNR)	0	0	0	0	0
59	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
59	10.7	Designated Ancient Woodland	0	0	0	0	0
59	10.8	Biosphere Reserves	0	0	0	0	0
60	10.9	Forest Parks	0	0	0	0	0
60	10.10	Marine Conservation Zones	0	0	0	0	0
60	10.11	Green Belt	0	0	0	0	0
60	10.12	Proposed Ramsar sites	0	0	0	0	0



60	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
61	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
61	10.15	Nitrate Sensitive Areas	0	0	0	0	0
61 >	10.16 >	Nitrate Vulnerable Zones >	1	0	0	0	1
62 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
63	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
64	11.1	World Heritage Sites	0	0	0	-	-
65	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
65	11.3	National Parks	0	0	0	-	-
65	11.4	Listed Buildings	0	0	0	-	-
65 >	11.5 >	Conservation Areas >	1	0	0	-	-
66	11.6	Scheduled Ancient Monuments	0	0	0	-	-
66	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
67 >	12.1 >	Agricultural Land Classification >	Non Agricultural (within 250m)				
68 >	12.2 >	Open Access Land >	0	3	0	-	-
68	12.3	Tree Felling Licences	0	0	0	-	-
68	12.4	Environmental Stewardship Schemes	0	0	0	-	-
68	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
70 >	13.1 >	Priority Habitat Inventory >	0	0	1	-	-
71	13.2	Habitat Networks	0	0	0	-	-
71	13.3	Open Mosaic Habitat	0	0	0	-	-
71	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
72 >	14.1 >	10k Availability >	Identified (within 500m)				
73	14.2	Artificial and made ground (10k)	0	0	0	0	-
74	14.3	Superficial geology (10k)	0	0	0	0	-

74	14.4	Landslip (10k)	0	0	0	0	-
75	14.5	Bedrock geology (10k)	0	0	0	0	-
75	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	<u>Geology 1:50,000 scale</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<u>76</u> >	<u>15.1</u> >	<u>50k Availability</u> >	Identified (within 500m)				
77	15.2	Artificial and made ground (50k)	0	0	0	0	-
77	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>78</u> >	<u>15.4</u> >	<u>Superficial geology (50k)</u> >	0	0	1	1	-
79	15.5	Superficial permeability (50k)	None (within 50m)				
79	15.6	Landslip (50k)	0	0	0	0	-
79	15.7	Landslip permeability (50k)	None (within 50m)				
<u>80</u> >	<u>15.8</u> >	<u>Bedrock geology (50k)</u> >	1	0	0	1	-
<u>81</u> >	<u>15.9</u> >	<u>Bedrock permeability (50k)</u> >	Identified (within 50m)				
81	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	<u>Boreholes</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<u>82</u> >	<u>16.1</u> >	<u>BGS Boreholes</u> >	0	0	1	-	-
Page	Section	<u>Natural ground subsidence</u> >					
<u>83</u> >	<u>17.1</u> >	<u>Shrink swell clays</u> >	Low (within 50m)				
<u>84</u> >	<u>17.2</u> >	<u>Running sands</u> >	Negligible (within 50m)				
<u>85</u> >	<u>17.3</u> >	<u>Compressible deposits</u> >	Negligible (within 50m)				
<u>86</u> >	<u>17.4</u> >	<u>Collapsible deposits</u> >	Very low (within 50m)				
<u>87</u> >	<u>17.5</u> >	<u>Landslides</u> >	Very low (within 50m)				
<u>88</u> >	<u>17.6</u> >	<u>Ground dissolution of soluble rocks</u> >	Negligible (within 50m)				
Page	Section	<u>Mining and ground workings</u> >	On site	0-50m	50-250m	250-500m	500-2000m
90	18.1	BritPits	0	0	0	0	-
<u>91</u> >	<u>18.2</u> >	<u>Surface ground workings</u> >	0	0	2	-	-
91	18.3	Underground workings	0	0	0	0	0
91	18.4	Underground mining extents	0	0	0	0	-
91	18.5	Historical Mineral Planning Areas	0	0	0	0	-

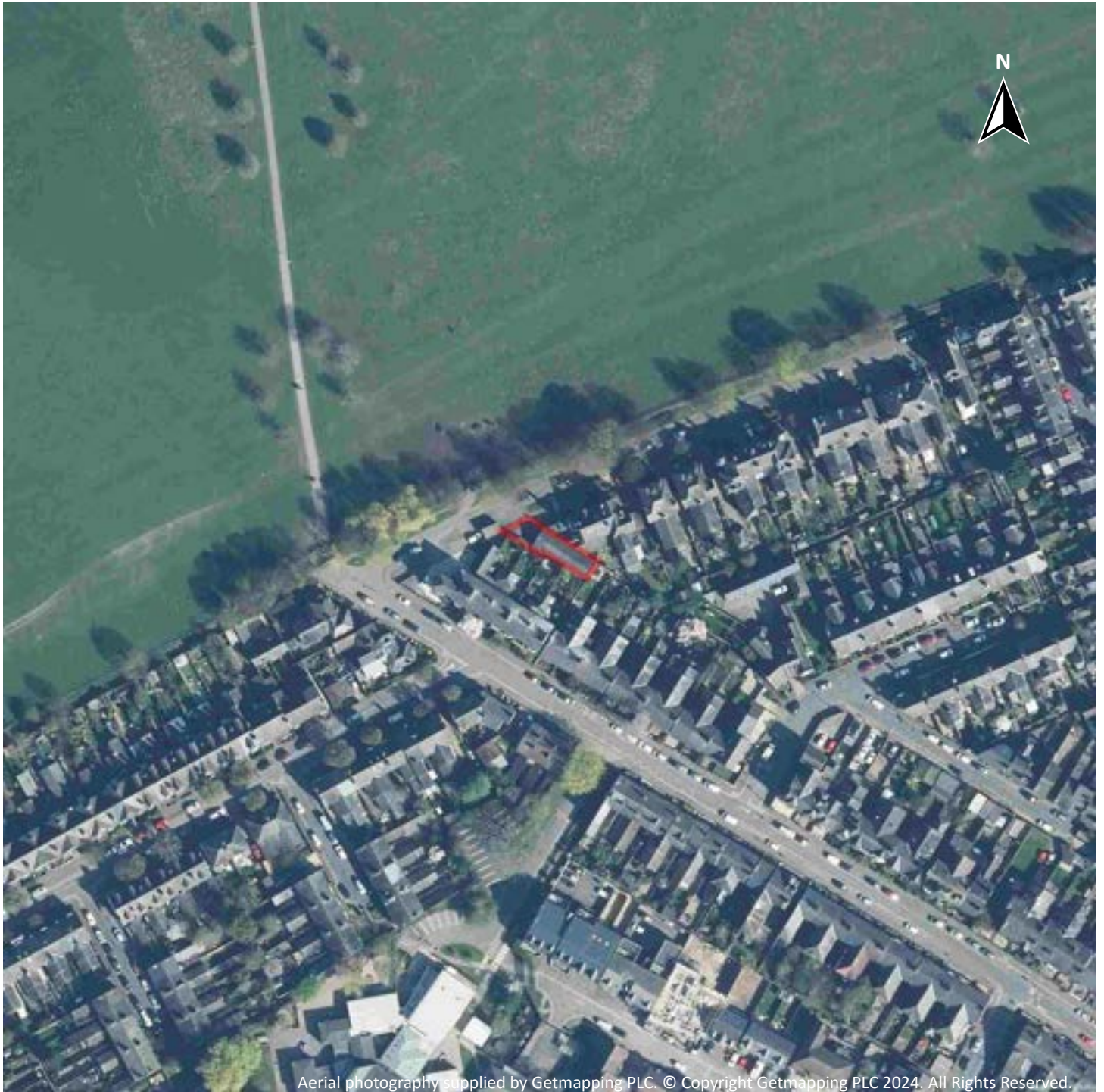


92	18.6	Non-coal mining	0	0	0	0	0
92	18.7	JPB mining areas	None (within 0m)				
92	18.8	The Coal Authority non-coal mining	0	0	0	0	-
92	18.9	Researched mining	0	0	0	0	-
93	18.10	Mining record office plans	0	0	0	0	-
93	18.11	BGS mine plans	0	0	0	0	-
93	18.12	Coal mining	None (within 0m)				
93	18.13	Brine areas	None (within 0m)				
93	18.14	Gypsum areas	None (within 0m)				
94	18.15	Tin mining	None (within 0m)				
94	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
95	19.1	Natural cavities	0	0	0	0	-
95	19.2	Mining cavities	0	0	0	0	0
95	19.3	Reported recent incidents	0	0	0	0	-
95	19.4	Historical incidents	0	0	0	0	-
96	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
97 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
99 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	3	-	-	-
99 >	21.2 >	BGS Estimated Urban Soil Chemistry >	1	5	-	-	-
100	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
101	22.1	Underground railways (London)	0	0	0	-	-
101	22.2	Underground railways (Non-London)	0	0	0	-	-
101	22.3	Railway tunnels	0	0	0	-	-
101	22.4	Historical railway and tunnel features	0	0	0	-	-
101	22.5	Royal Mail tunnels	0	0	0	-	-

102	22.6	Historical railways	0	0	0	-	-
102	22.7	Railways	0	0	0	-	-
102	22.8	Crossrail 1	0	0	0	0	-
102	22.9	Crossrail 2	0	0	0	0	-
102	22.10	HS2	0	0	0	0	-



Recent aerial photograph

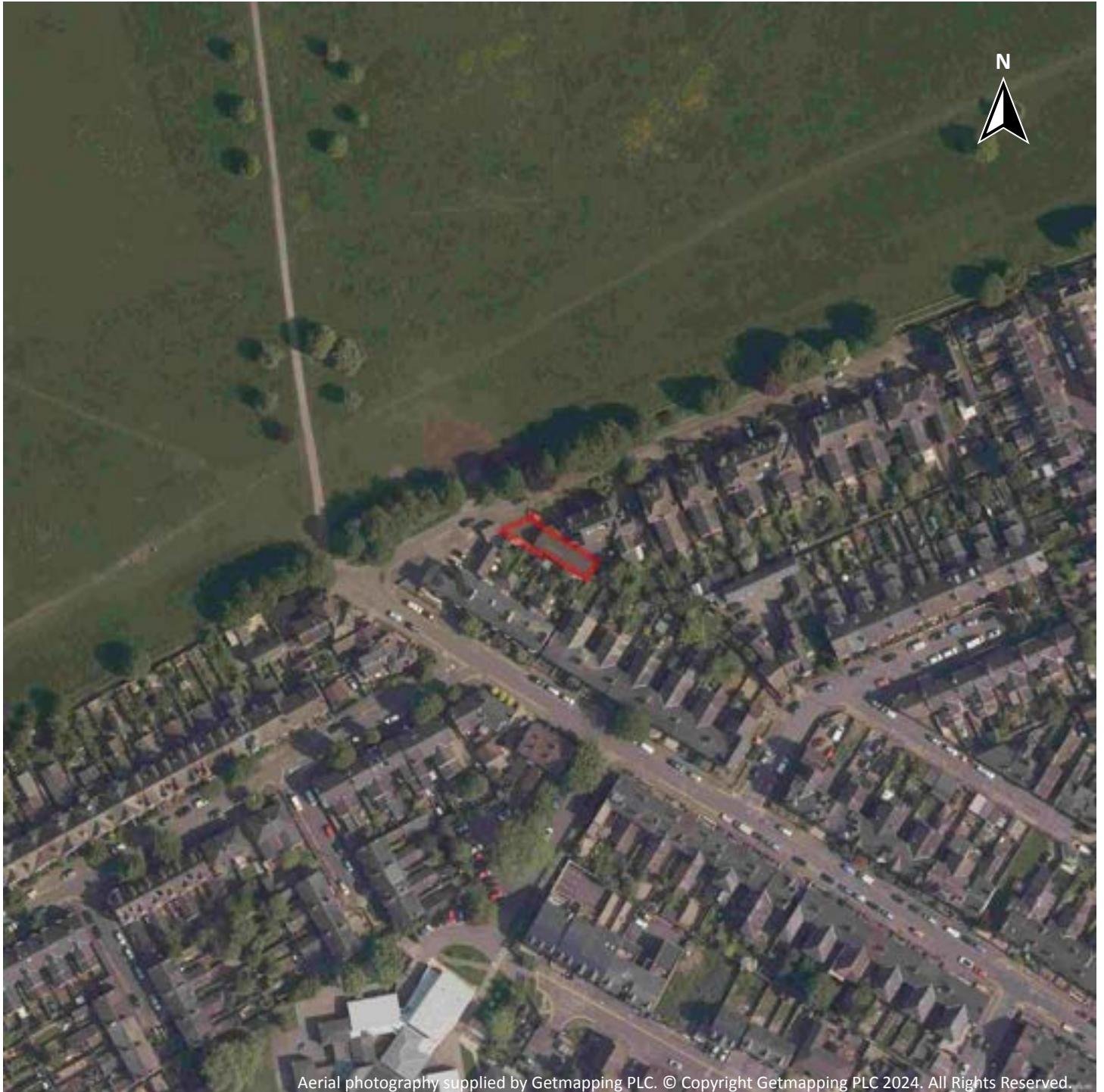


Capture Date: 04/04/2021

Site Area: 0.02ha



Recent site history - 2018 aerial photograph

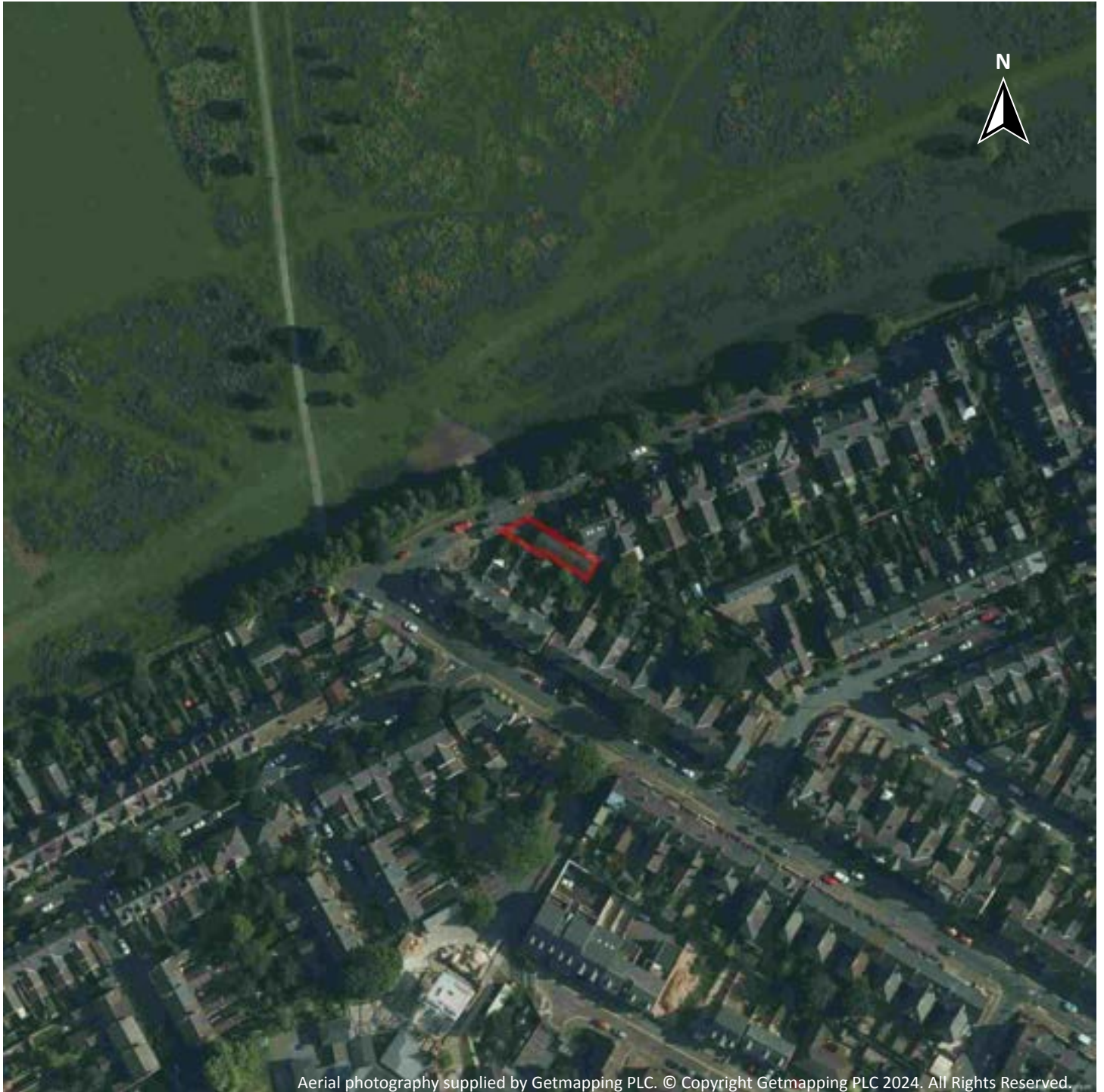


Capture Date: 15/05/2018

Site Area: 0.02ha



Recent site history - 2015 aerial photograph

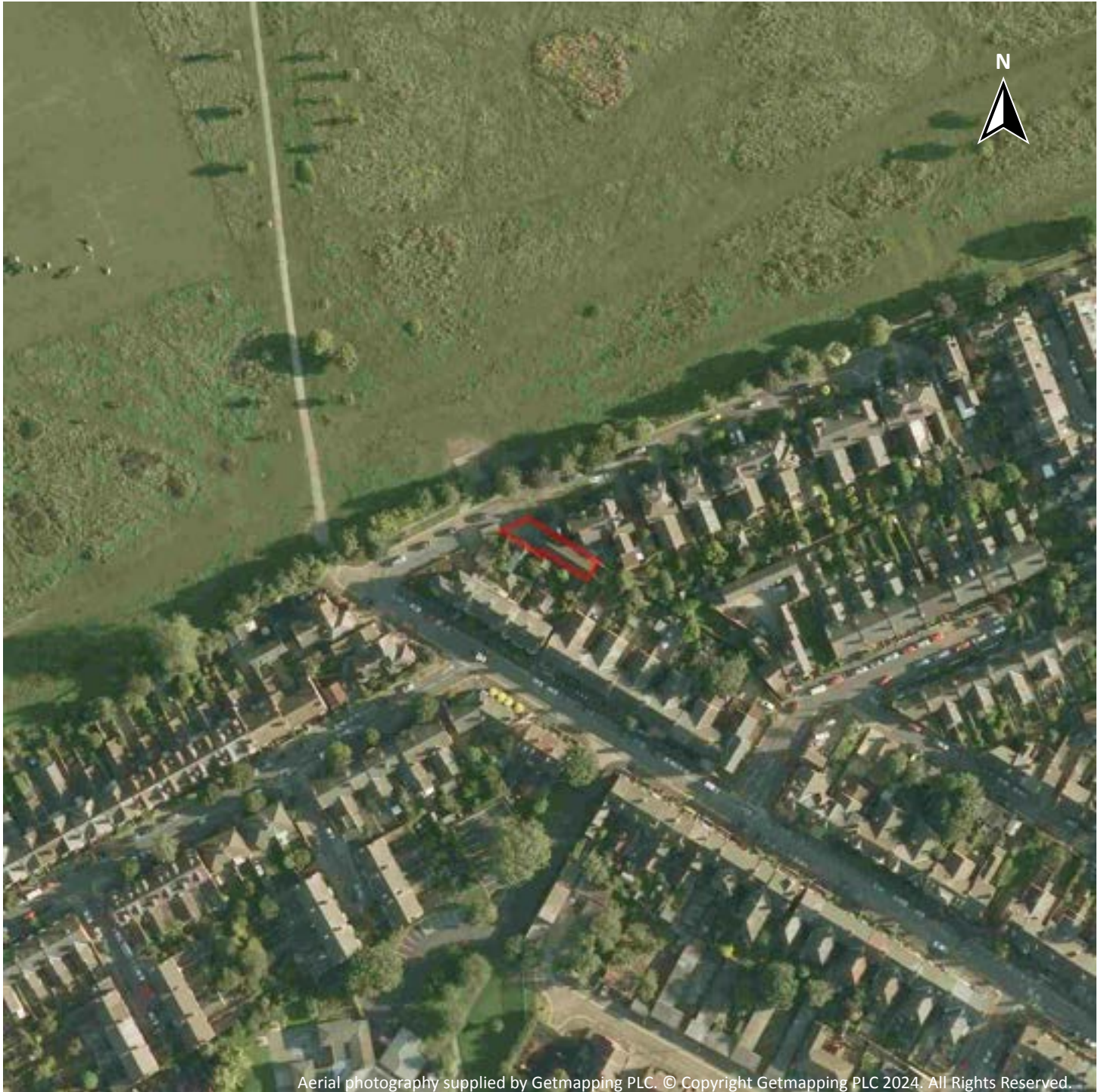


Capture Date: 26/09/2015

Site Area: 0.02ha



Recent site history - 2007 aerial photograph



Capture Date: 30/09/2007

Site Area: 0.02ha



Recent site history - 1999 aerial photograph



Capture Date: 30/04/1999

Site Area: 0.02ha



OS MasterMap site plan



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Site Area: 0.02ha



1 Past land use



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- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

1.1 Historical industrial land uses

Records within 500m

35

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
2	103m S	Unspecified Ground Workings	1886	1566727



ID	Location	Land use	Dates present	Group ID
D	323m S	Unspecified Works	1974	1661145
D	325m S	Unspecified Works	1938	1725402
D	325m S	Unspecified Works	1966	1675254
D	327m S	Chemical Works	1886 - 1904	1747879
D	329m S	Fertiliser Works	1948	1628352
D	329m S	Fertiliser Works	1930	1735946
5	356m S	Railway Sidings	1974	1663363
6	359m SE	Rope Walk	1886	1560474
E	368m SW	Joinery Works	1930	1660398
E	368m SW	Joinery Works	1948	1688751
E	368m SW	Unspecified Works	1966	1619457
E	369m SW	Joinery Works	1938	1645045
F	378m N	Unspecified Works	1974 - 1987	1712894
E	387m SW	Unspecified Works	1974 - 1987	1683869
F	415m N	Unspecified Works	1966	1743765
F	417m N	Brick Works	1930	1642778
F	417m N	Brick Works	1904	1660842
F	417m N	Brick Works	1948	1705417
F	417m N	Brick Works	1938	1722950
G	432m S	Railway Sidings	1947 - 1966	1730765
G	432m S	Railway Sidings	1930 - 1938	1738388
F	438m N	Unspecified Ground Workings	1904	1566737
H	440m N	Unspecified Tank	1904 - 1930	1716187
H	440m N	Unspecified Tank	1938	1718632
F	444m N	Railway Sidings	1904 - 1930	1737905
F	446m N	Railway Sidings	1938	1733080
F	452m N	Railway Sidings	1948	1637705
F	453m N	Unspecified Pit	1987	1702140



ID	Location	Land use	Dates present	Group ID
F	462m N	Unspecified Pit	1938	1689070
F	462m N	Unspecified Pit	1930	1692341
F	462m N	Unspecified Pit	1948	1694419
I	466m N	Railway Sidings	1930	1709045
I	466m N	Railway Sidings	1948	1722314
8	484m NE	Windmill	1966	1560652

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

7

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
H	438m N	Unspecified Tank	1907	256549
D	464m S	Tanks	1907	261347
J	468m SW	Unspecified Tank	1988 - 1996	267218
J	475m SW	Unspecified Tank	1988 - 1996	271946
J	479m SW	Unspecified Tank	1988 - 1996	277026
D	487m S	Unspecified Tank	1907	256556
D	496m S	Unspecified Tank	1907	256552

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

6

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
1	1m W	Electricity Substation	1981 - 1986	164012
3	173m S	Electricity Substation	1986	149363
C	313m SW	Electricity Substation	1994 - 1996	152276
C	314m SW	Electricity Substation	1988	166035
D	410m S	Gas Governor	1988 - 1996	155591
7	464m SE	Electricity Substation	1986	149362

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

1

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
C	249m SW	Filling Station	1988	2744

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m

8

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	213m S	Garage	1967	53313
A	215m S	Garage	1966	49390
A	215m S	Garage	1981 - 1986	53664
B	242m S	Garage	1967	52292
B	243m SE	Garage	1966	48218
B	245m SE	Garage	1981 - 1986	52851
C	283m SW	Garage	1966 - 1967	51905
4	320m S	Garage	1966 - 1967	52936

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



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- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

2.1 Historical industrial land uses

Records within 500m

43

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 20](#) >

ID	Location	Land Use	Date	Group ID
1	103m S	Unspecified Ground Workings	1886	1566727
F	323m S	Unspecified Works	1974	1661145
F	325m S	Unspecified Works	1938	1725402

ID	Location	Land Use	Date	Group ID
F	325m S	Unspecified Works	1966	1675254
F	327m S	Chemical Works	1886	1747879
F	329m S	Fertiliser Works	1948	1628352
F	329m S	Fertiliser Works	1930	1735946
F	334m S	Chemical Works	1904	1747879
3	356m S	Railway Sidings	1974	1663363
4	359m SE	Rope Walk	1886	1560474
G	368m SW	Joinery Works	1948	1688751
G	368m SW	Joinery Works	1930	1660398
G	368m SW	Unspecified Works	1966	1619457
G	369m SW	Joinery Works	1938	1645045
H	378m N	Unspecified Works	1974	1712894
G	387m SW	Unspecified Works	1974	1683869
G	387m SW	Unspecified Works	1987	1683869
H	415m N	Unspecified Works	1966	1743765
H	417m N	Brick Works	1948	1705417
H	417m N	Brick Works	1930	1642778
H	417m N	Brick Works	1904	1660842
H	417m N	Brick Works	1938	1722950
H	417m N	Brick Works	1938	1722950
I	432m S	Railway Sidings	1938	1738388
H	433m N	Unspecified Works	1987	1712894
H	438m N	Unspecified Ground Workings	1904	1566737
J	440m N	Unspecified Tank	1904	1716187
J	440m N	Unspecified Tank	1938	1718632
J	440m N	Unspecified Tank	1930	1716187
H	444m N	Railway Sidings	1904	1737905
H	446m N	Railway Sidings	1938	1733080



ID	Location	Land Use	Date	Group ID
I	447m S	Railway Sidings	1948	1730765
I	447m S	Railway Sidings	1930	1738388
H	452m N	Railway Sidings	1948	1637705
H	452m N	Railway Sidings	1930	1737905
H	453m N	Unspecified Pit	1987	1702140
H	462m N	Unspecified Pit	1938	1689070
H	462m N	Unspecified Pit	1938	1689070
H	462m N	Unspecified Pit	1948	1694419
H	462m N	Unspecified Pit	1930	1692341
K	466m N	Railway Sidings	1948	1722314
K	466m N	Railway Sidings	1930	1709045
6	484m NE	Windmill	1966	1560652

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

13

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 20 >](#)

ID	Location	Land Use	Date	Group ID
J	438m N	Unspecified Tank	1907	256549
F	464m S	Tanks	1907	261347
L	468m SW	Unspecified Tank	1994	267218
L	468m SW	Unspecified Tank	1996	267218
L	468m SW	Unspecified Tank	1988	267218
L	475m SW	Unspecified Tank	1994	271946
L	475m SW	Unspecified Tank	1996	271946
L	475m SW	Unspecified Tank	1988	271946



ID	Location	Land Use	Date	Group ID
L	479m SW	Unspecified Tank	1994	277026
L	479m SW	Unspecified Tank	1996	277026
L	479m SW	Unspecified Tank	1988	277026
F	487m S	Unspecified Tank	1907	256556
F	496m S	Unspecified Tank	1907	256552

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

10

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 20 >](#)

ID	Location	Land Use	Date	Group ID
A	1m W	Electricity Substation	1986	164012
A	1m W	Electricity Substation	1981	164012
2	173m S	Electricity Substation	1986	149363
D	313m SW	Electricity Substation	1994	152276
D	313m SW	Electricity Substation	1996	152276
D	314m SW	Electricity Substation	1988	166035
F	410m S	Gas Governor	1988	155591
F	411m S	Gas Governor	1994	155591
F	411m S	Gas Governor	1996	155591
5	464m SE	Electricity Substation	1986	149362

This data is sourced from Ordnance Survey / Groundsure.



2.4 Historical petrol stations

Records within 500m

1

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 20 >](#)

ID	Location	Land Use	Date	Group ID
D	249m SW	Filling Station	1988	2744

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

14

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 20 >](#)

ID	Location	Land Use	Date	Group ID
B	213m S	Garage	1967	53313
B	213m S	Garage	1967	53313
B	215m S	Garage	1966	49390
B	215m S	Garage	1981	53664
B	215m S	Garage	1986	53664
C	242m S	Garage	1967	52292
C	242m S	Garage	1967	52292
C	243m SE	Garage	1966	48218
C	245m SE	Garage	1981	52851
C	245m SE	Garage	1986	52851
D	283m SW	Garage	1967	51905
D	297m SW	Garage	1966	51905
E	320m S	Garage	1966	52936



ID	Location	Land Use	Date	Group ID
E	329m S	Garage	1967	52936

This data is sourced from Ordnance Survey / Groundsure.







3 Waste and landfill



— Site Outline

Search buffers in metres (m)

-  Active or recent landfill
-  Historical landfill (EA/NRW)
-  Historical waste sites
-  Waste exemptions

3.1 Active or recent landfill

Records within 500m

1

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on [page 26 >](#)

ID	Location	Details
3	493m N	<p>Operator: Veolia E S Serviceteam (U K) Ltd Site Address: Serviceteam Ltd, Albion Works, Long Leys Road, Lincoln, Lincolnshire, LN1 1DS</p> <p>WML Number: 70900 EPR Reference: SER001 Landfill type: A05: Landfill taking Non-Biodegradable Wastes Status: Closure IPPC Reference: - EPR Number: EA/EPR/BP3598NX/A001</p>

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on [page 26 >](#)

ID	Location	Details		
1	431m S	Site Address: Former Fisons Site, Carholme Road Licence Holder Address: -	Waste Licence: - Site Reference: LI-34-12/88, 2500/5283 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m

1

Waste site records derived from Local Authority planning records and high detail historical mapping. Features are displayed on the Waste and landfill map on [page 26 >](#)

ID	Location	Address	Further Details	Date
D	476m N	Site Address: Veolia Site, Long Leys Road, Lincoln, Lincolnshire, LN1 1DS	Type of Site: Waste Transfer Station Planning application reference: PL/0125/16 (L/ /16) Description: Scheme comprises to demolish an building, construct a new building and operate a waste transfer station, including the production of refuse derived fuel, with associated development including a new weighbridge, relocation of existing wash bay, diesel tan k and re-alignment of fence line.The associated works include sewer systems, landscaping, infrastructure, enabling and access roads. Data source: Historic Planning Application Data Type: Point	-

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m

0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

16

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 26 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	377m SE	Rear Of 12-16 Richmond Road LN1 1LQ	EPR/JF0900UU /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
A	377m SE	Rear Of 12-16 Richmond Road LN1 1LQ	EPR/JF0900UU /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
A	378m SE	12-16 RICHMOND ROAD, LINCOLN, LINCOLN, LN1 1LQ	WEX123277	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	378m SE	12-16 RICHMOND ROAD, LINCOLN, LINCOLN, LN1 1LQ	WEX123277	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	378m SE	12-16 RICHMOND ROAD, LINCOLN, LINCOLN, LN1 1LQ	WEX123277	Using waste exemption	Not on a farm	Use of waste in construction
B	403m SE	144 West Parade Lincoln Lincolnshire LN1 1LF	EPR/TF0800ZA /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
B	403m SE	144 West Parade Lincoln Lincolnshire LN1 1LF	EPR/TF0800ZA /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
B	403m SE	144 West Parade Lincoln Lincolnshire LN1 1LF	EPR/TF0800ZA /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
C	408m NE	126, YARBOROUGH ROAD, LINCOLN, LN1 1HP	WEX123285	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	408m NE	126, YARBOROUGH ROAD, LINCOLN, LN1 1HP	WEX123285	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	408m NE	126, YARBOROUGH ROAD, LINCOLN, LN1 1HP	WEX123285	Using waste exemption	Not on a farm	Use of waste in construction
C	408m NE	126, YARBOROUGH ROAD, LINCOLN, LN1 1HP	WEX123285	Disposing of waste exemption	Not on a farm	Burning waste in the open
D	482m N	ALBION WORKS, LONG LEYS ROAD, LINCOLN, LN1 1DS	WEX316762	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	482m N	ALBION WORKS, LONG LEYS ROAD, LINCOLN, LN1 1DS	WEX179934	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	482m N	ALBION WORKS LONG LEYS ROAD LINCOLN LN1 1DS	WEX012828	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
2	492m SE	90 Newland Street West Lincoln Lincolnshire LN1 1PH	EPR/QF0104M D/A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- ▲ Current or recent petrol stations
- Sites determined as Contaminated Land
- Regulated explosive sites
- Historical licensed industrial activities
- Licensed pollutant release (Part A(2)/B)
- Radioactive Substance Authorisations
- Licensed Discharges to controlled waters
- List 2 Dangerous Substances

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4.1 Recent industrial land uses

Records within 250m **3**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 30](#) >

ID	Location	Company	Address	Activity	Category
1	3m NW	Electricity Sub Station	Lincolnshire, LN1	Electrical Features	Infrastructure and Facilities
2	126m SE	A R C Recording Services	250, West Parade, Lincoln, Lincolnshire, LN1 1LY	Recording Studios and Record Companies	IT, Advertising, Marketing and Media Services

ID	Location	Company	Address	Activity	Category
A	181m S	Electricity Sub Station	Lincolnshire, LN1	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	1
----------------------------	----------

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 30 >](#)

ID	Location	Company	Address	LPG	Status
B	314m SW	GULF	Carholme Road, Lincoln, Lincolnshire, LN1 1RU	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
----------------------------	----------

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
----------------------------	----------

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	1
----------------------------	----------

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

Features are displayed on the Current industrial land use map on [page 30 >](#)



ID	Location	Description	Site name	Category	Year identified
4	414m S	Former fertiliser Factory works. Initial investigations found evidence of lead, cyanide, hydrocarbons and arsenic; June 2011-investigations ongoing. Remediation of the rear gardens took place in 2014/2015 with the use of a clean cover system.	44, 45, 46, 47, 48, 49, 50, 51, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 75, 76, 77, 79, 80, 81, 82, 84, 85, 104, 106, 108, 112, 114, 118 and 120 Roman Wharf, off Carholme Road, Lincoln - remediation statement for site	Contaminated Land	2013

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

1

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

Features are displayed on the Current industrial land use map on [page 30 >](#)

ID	Location	Company	Operational Address
C	351m SW	E2v Technologies Uk Ltd	Carholme Road, Lincoln, Lincolnshire, LN1 1SF

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.



4.9 Historical licensed industrial activities (IPC)

Records within 500m

1

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

Features are displayed on the Current industrial land use map on [page 30 >](#)

ID	Location	Details	
C	496m SW	Operator: E2v Technologies (UK) Ltd Address: Carholme Road, Lincoln, Lincolnshire, LN1 1SF Process: Inorganic Chemical Processes Permit Number: AN9069	Original Permit Number: IPCAPP Date Approved: 24-11-1994 Effective Date: 1-12-1994 Status: Revoked

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

4

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 30 >](#)

ID	Location	Address	Details	
A	222m S	John West Garage, Woodstock Street, Lincoln, LN1 1PT	Process: Waste Oil Burner 0.4 MW Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
B	301m SW	Lincoln Co-op, Carholme Road, Lincoln, LN1 1RU	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified



ID	Location	Address	Details	
5	461m S	Carholme Motor Centre, Carholme Road, Lincoln, Lincolnshire, LN1 1ST	Process: Waste Oil Burner 0.4 MW Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
C	498m SW	Gec Plessey Semicon, Carholmes Road, Lincoln, LN1 1SG	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	11
----------------------------	-----------

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

Features are displayed on the Current industrial land use map on [page 30 >](#)

ID	Location	Address	Details	
C	496m SW	E2v Technologies (uk) Ltd, Carholme Road, Lincoln, Lincolnshire, LN1 1SF	Operator: E2v Technologies (uk) Ltd Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AJ0540 Date of approval: -	Effective from: - Last date of update: 06/04/2006 Status: Valid
C	496m SW	E2v Technologies (uk) Ltd, Carholme Road, Lincoln, Lincolnshire, LN1 1SF	Operator: E2v Technologies (uk) Ltd Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AJ6793 Date of approval: 26/10/1993	Effective from: 26/10/1993 Last date of update: 01/01/2015 Status: Superseded By Variation
C	496m SW	E2v Technologies (uk) Ltd, Carholme Road, Lincoln, Lincolnshire, LN1 1SF	Operator: E2v Technologies (uk) Ltd Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AJ6793 Date of approval: 07/12/2001	Effective from: 07/12/2001 Last date of update: 01/01/2015 Status: Superseded By Variation
C	496m SW	E2v Technologies (uk) Ltd, Carholme Road, Lincoln, Lincolnshire, LN1 1SF	Operator: E2v Technologies (uk) Ltd Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AJ6793 Date of approval: 08/08/2002	Effective from: 08/08/2002 Last date of update: 01/01/2015 Status: Superseded By Variation



ID	Location	Address	Details	
C	496m SW	E2v Technologies (uk) Ltd, Carholme Road, Lincoln, Lincolnshire, LN1 1SF	Operator: E2v Technologies (uk) Ltd Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AJ6793 Date of approval: 10/04/2006	Effective from: 10/04/2006 Last date of update: 01/01/2015 Status: Revoked/cancelled
C	496m SW	E2v Technologies (uk) Ltd, Carholme Road, Lincoln, Lincolnshire, LN1 1SF	Operator: E2v Technologies (uk) Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BC1100 Date of approval: 14/12/1998	Effective from: 14/12/1998 Last date of update: 01/01/2015 Status: Superseded By Variation
C	496m SW	E2v Technologies (uk) Ltd, Carholme Road, Lincoln, Lincolnshire, LN1 1SF	Operator: E2v Technologies (uk) Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BC1100 Date of approval: 07/12/2001	Effective from: 07/01/2002 Last date of update: 01/01/2015 Status: Superseded By Variation
C	496m SW	E2v Technologies (uk) Ltd, Carholme Road, Lincoln, Lincolnshire, LN1 1SF	Operator: E2v Technologies (uk) Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BC1100 Date of approval: 08/08/2002	Effective from: 05/09/2002 Last date of update: 01/01/2015 Status: Superseded By Variation
C	496m SW	E2v Technologies (uk) Ltd, Carholme Road, Lincoln, Lincolnshire, LN1 1SF	Operator: E2v Technologies (uk) Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BC1100 Date of approval: 18/11/2003	Effective from: 28/11/2003 Last date of update: 01/01/2015 Status: Superseded By Variation
C	496m SW	E2v Technologies (uk) Ltd, Carholme Road, Lincoln, Lincolnshire, LN1 1SF	Operator: E2v Technologies (uk) Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BC1100 Date of approval: 02/11/2005	Effective from: 04/11/2005 Last date of update: 01/01/2015 Status: Superseded By Variation
C	496m SW	E2v Technologies (uk) Ltd, Carholme Road, Lincoln, Lincolnshire, LN1 1SF	Operator: E2v Technologies (uk) Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BC1100 Date of approval: 10/04/2006	Effective from: 11/04/2006 Last date of update: 01/01/2015 Status: Revoked/cancelled

This data is sourced from the Environment Agency and Natural Resources Wales.



4.13 Licensed Discharges to controlled waters

Records within 500m

1

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991. Features are displayed on the Current industrial land use map on [page 30 >](#)

ID	Location	Address	Details	
C	496m SW	FACTORY AT CARHOLME ROAD, CARHOLME ROAD, LINCOLN, LN1 1SF	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR3NFF579 Permit Version: 1 Receiving Water: The Fosdyke Canal	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 01/10/1966 Effective Date: 01/10/1966 Revocation Date: 26/02/1993

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m

1

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on [page 30 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
3	266m SW	Winning Post Filling Station	Not Active	Na	pH

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

0

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



4.21 Pollution inventory radioactive waste

Records within 500m

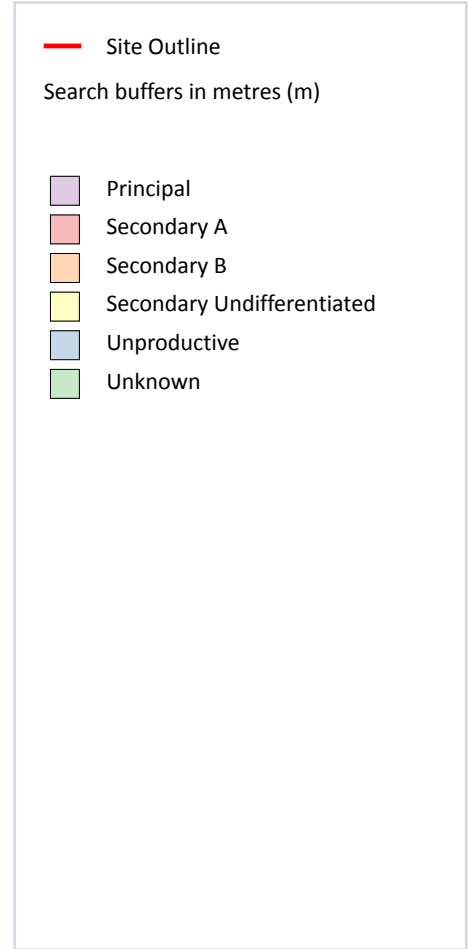
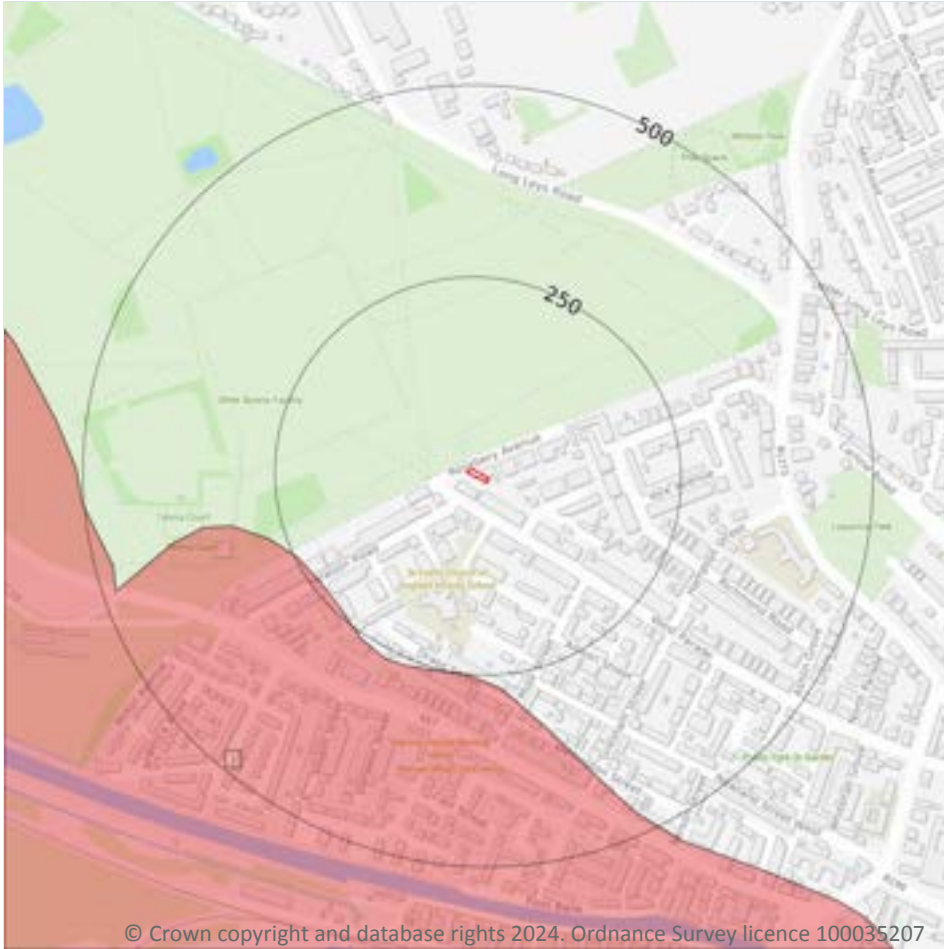
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

1

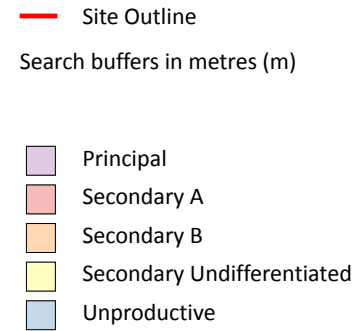
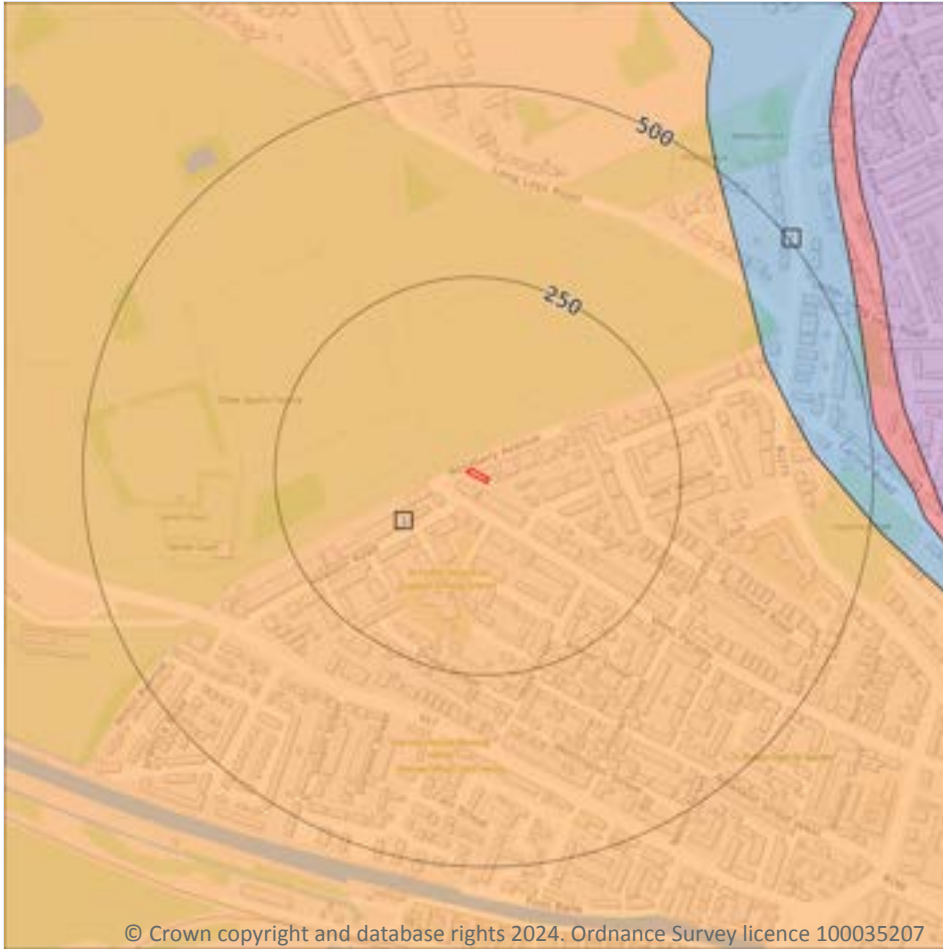
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 39 >](#)

ID	Location	Designation	Description
1	238m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



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5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

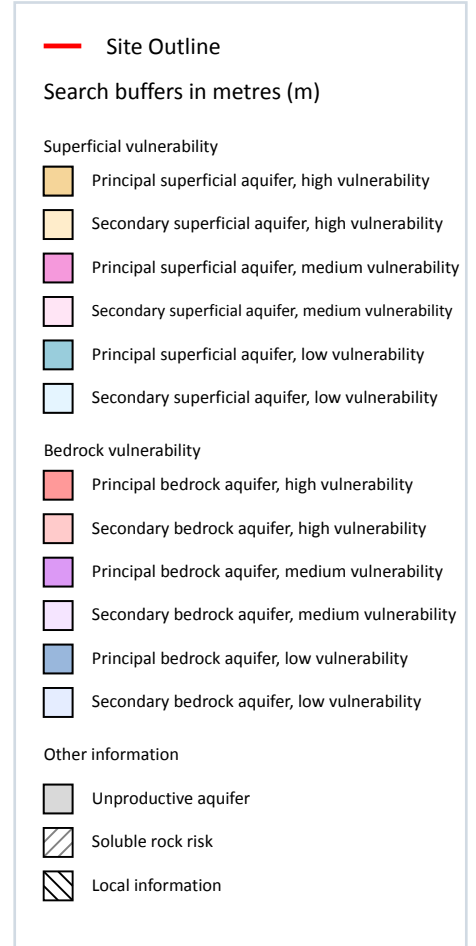
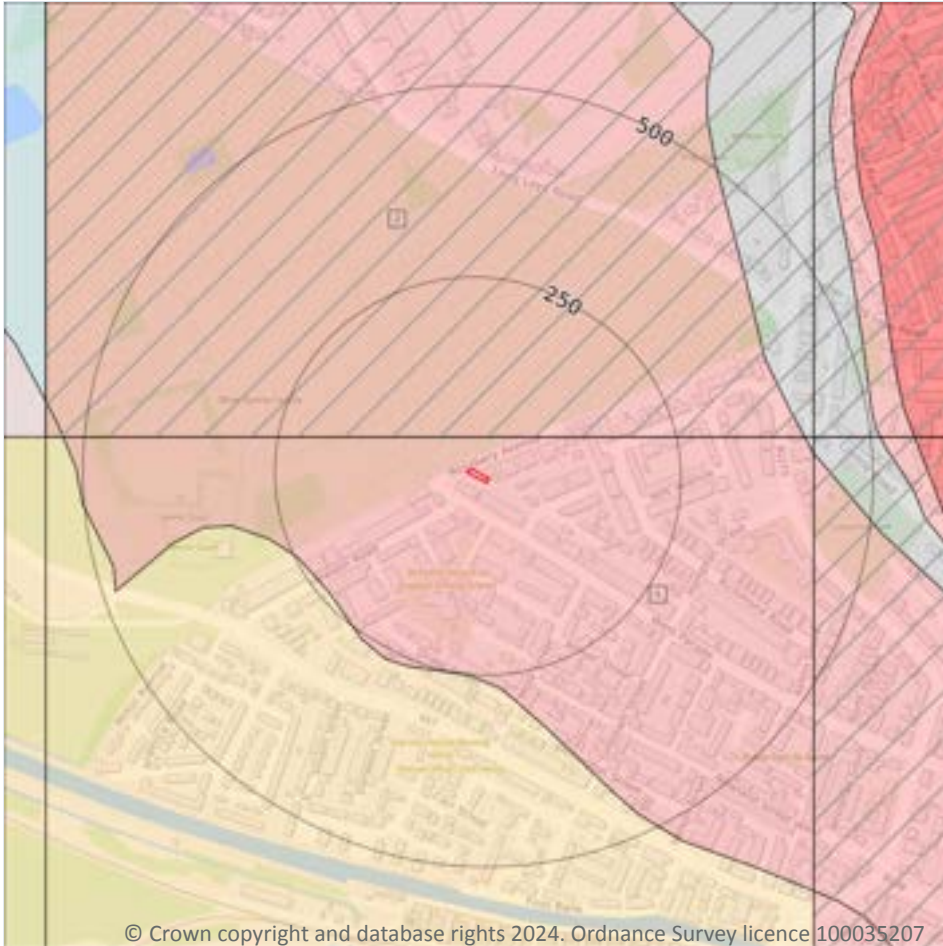
Features are displayed on the Bedrock aquifer map on [page 40 >](#)

ID	Location	Designation	Description
1	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
2	392m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on [page 41](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	41m N	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0
------------------------	----------

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site	0
------------------------	----------

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

0

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m

18

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 43 >](#)

ID	Location	Details	
A	603m SW	Status: Historical Licence No: 4/30/05/*S/0041 Details: Non-Evaporative Cooling Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: FOSSDYKE CANAL AT LINCOLN Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 496100 Northing: 371550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/11/1989 Expiry Date: - Issue No: 100 Version Start Date: 01/11/1989 Version End Date: -
A	609m SW	Status: Historical Licence No: 4/30/05/*S/0041 Details: Non-Evaporative Cooling Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: FOSSDYKE CANAL AT LINCOLN Data Type: Point Name: Canal and River Trust Easting: 496120 Northing: 371520	Annual Volume (m ³): 288670 Max Daily Volume (m ³): 1300 Original Application No: - Original Start Date: 01/11/1989 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2004 Version End Date: -
-	1119m W	Status: Active Licence No: 4/30/05/*S/0012 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: BURTON CATCHWATER CARHOLME Data Type: Point Name: CARHOLME GOLF CLUB Easting: 495430 Northing: 372000	Annual Volume (m ³): 4546 Max Daily Volume (m ³): 55 Original Application No: - Original Start Date: 01/05/1972 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1161m W	Status: Active Licence No: AN/030/0005/002 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: BURTON PUMP DRAIN - LINCOLN Data Type: Line Name: LINCOLN WATER TRANSFER LTD Easting: 494940 Northing: 373360	Annual Volume (m ³): 581437 Max Daily Volume (m ³): 17592 Original Application No: NPS/WR/003481 Original Start Date: 01/04/2011 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 01/04/2011 Version End Date: -



ID	Location	Details	
-	1161m W	Status: Historical Licence No: 4/30/05/*S/0054 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: BURTON PUMP DRAIN - LINCOLN Data Type: Line Name: LINCOLN WATER TRANSFER LTD Easting: 494940 Northing: 373360	Annual Volume (m ³): 803000 Max Daily Volume (m ³): 17600 Original Application No: - Original Start Date: 26/04/2001 Expiry Date: 31/10/2010 Issue No: 3 Version Start Date: 12/01/2006 Version End Date: -
-	1162m W	Status: Active Licence No: AN/030/0005/002 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: PYEWIPE JUNCTION DRAIN - LINCOLN Data Type: Line Name: LINCOLN WATER TRANSFER LTD Easting: 495500 Northing: 371230	Annual Volume (m ³): 581437 Max Daily Volume (m ³): 17592 Original Application No: NPS/WR/003481 Original Start Date: 01/04/2011 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 01/04/2011 Version End Date: -
-	1162m W	Status: Historical Licence No: 4/30/05/*S/0054 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: PYEWIPE JUNCTION DRAIN - LINCOLN Data Type: Line Name: LINCOLN WATER TRANSFER LTD Easting: 495500 Northing: 371230	Annual Volume (m ³): 803000 Max Daily Volume (m ³): 17600 Original Application No: - Original Start Date: 26/04/2001 Expiry Date: 31/10/2010 Issue No: 3 Version Start Date: 12/01/2006 Version End Date: -
-	1274m SW	Status: Active Licence No: AN/030/0005/002 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: SKELLINGTHORPE PUMP DRAIN - SKELLINGTHORPE Data Type: Line Name: LINCOLN WATER TRANSFER LTD Easting: 491620 Northing: 374220	Annual Volume (m ³): 581437 Max Daily Volume (m ³): 17592 Original Application No: NPS/WR/003481 Original Start Date: 01/04/2011 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 01/04/2011 Version End Date: -
-	1274m SW	Status: Historical Licence No: 4/30/05/*S/0054 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: SKELLINGTHORPE PUMP DRAIN - SKELLINGTHORPE Data Type: Line Name: LINCOLN WATER TRANSFER LTD Easting: 491620 Northing: 374220	Annual Volume (m ³): 803000 Max Daily Volume (m ³): 17600 Original Application No: - Original Start Date: 26/04/2001 Expiry Date: 31/10/2010 Issue No: 3 Version Start Date: 12/01/2006 Version End Date: -



ID	Location	Details	
-	1393m S	Status: Historical Licence No: 4/30/03/*S/0001 Details: Evaporative Cooling Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER WITHAM U/S BRAYFORD POOL Data Type: Point Name: SIEMENS INDUSTRIAL TURBOMACHINERY LTD Easting: 497100 Northing: 370650	Annual Volume (m ³): 18184 Max Daily Volume (m ³): 572 Original Application No: - Original Start Date: 01/04/1966 Expiry Date: - Issue No: 105 Version Start Date: 16/04/2007 Version End Date: -
-	1428m S	Status: Historical Licence No: 4/30/03/*S/0001 Details: Non-Evaporative Cooling Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER WITHAM - LINCOLN Data Type: Point Name: SIEMENS INDUSTRIAL TURBOMACHINERY LTD Easting: 497070 Northing: 370600	Annual Volume (m ³): 281856 Max Daily Volume (m ³): 1532 Original Application No: - Original Start Date: 01/04/1966 Expiry Date: - Issue No: 104 Version Start Date: 27/07/2005 Version End Date: -
-	1432m S	Status: Historical Licence No: 4/30/03/*S/0001 Details: Non-Evaporative Cooling Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER WITHAM U/S BRAYFORD POOL Data Type: Point Name: RUSTON GAS TURBINES LTD Easting: 497080 Northing: 370600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/11/1987 Version End Date: -
-	1432m S	Status: Historical Licence No: 4/30/03/*S/0001 Details: Process water Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER WITHAM U/S BRAYFORD POOL Data Type: Point Name: RUSTON GAS TURBINES LTD Easting: 497080 Northing: 370600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/11/1987 Version End Date: -
-	1470m W	Status: Active Licence No: 4/30/05/*S/0025 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: SKELLINGTHORPE MAIN DRAIN L/B Data Type: Point Name: SCARBOROUGH FARMS Easting: 495150 Northing: 371500	Annual Volume (m ³): 27272 Max Daily Volume (m ³): 836 Original Application No: - Original Start Date: 01/10/1983 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2004 Version End Date: -



ID	Location	Details	
-	1504m W	Status: Active Licence No: 4/30/05/*S/0029 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: SKELLINGTHORPE MAIN DRN "NEW" Data Type: Point Name: Fen Farm Limited Easting: 495120 Northing: 371480	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 1200 Original Application No: NPS/WR/031751 Original Start Date: 01/07/1984 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2021 Version End Date: -
-	1711m W	Status: Active Licence No: 4/30/05/*S/0025 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: SKELLINGTHORPE MAIN DRAIN R/B Data Type: Point Name: SCARBOROUGH FARMS Easting: 494860 Northing: 371670	Annual Volume (m ³): 27272 Max Daily Volume (m ³): 836 Original Application No: - Original Start Date: 01/10/1983 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2004 Version End Date: -
-	1755m W	Status: Active Licence No: 4/30/05/*S/0032 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: SKELLINGTHORPE MAIN DRAIN Data Type: Line Name: D A HUGHES & CO Easting: 493700 Northing: 372400	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 341 Original Application No: - Original Start Date: 01/04/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1985 Version End Date: -
-	1958m NW	Status: Active Licence No: 4/30/05/*S/0002 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: MAIN DRAIN(I.D.B.) S.CARLTON Data Type: Line Name: BLANKNEY ESTATES LTD Easting: 492500 Northing: 375800	Annual Volume (m ³): 18638 Max Daily Volume (m ³): 1745.7 Original Application No: NPS/WR/029336 Original Start Date: 01/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 23/07/2018 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m

0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.9 Source Protection Zones

Records within 500m**2**

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on [page 43](#) >

ID	Location	Type	Description
1	455m E	2	Outer catchment
2	455m NE	3	Total catchment

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m**0**

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.



This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on [page 49](#) >

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Skellingthorpe Main Drain	GB105030062390	Witham Upper	Witham

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified

1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on [page 49](#) >

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1099m W	River	Skellingthorpe Main Drain	GB105030062390 ↗	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



6.5 WFD Groundwater bodies

Records on site	1
------------------------	----------

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 49 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Witham Lias	GB40502G401400 ↗	Good	Good	Good	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

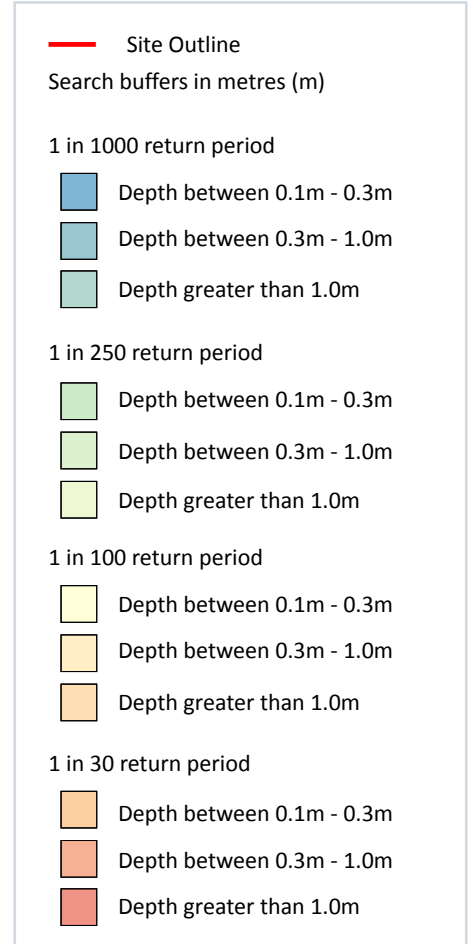
0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 250 year, 0.1m - 0.3m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on [page 55 >](#)

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

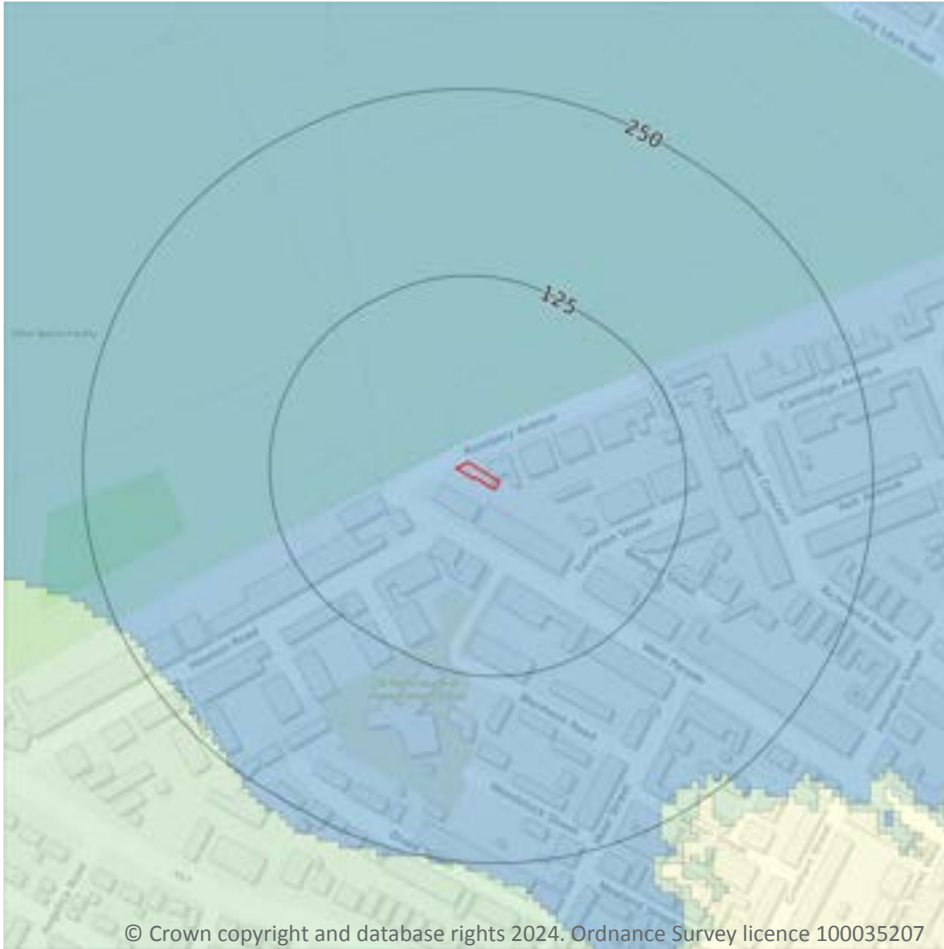
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on [page 57 >](#)

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m

0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.5 National Nature Reserves (NNR)

Records within 2000m

0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m

0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

2

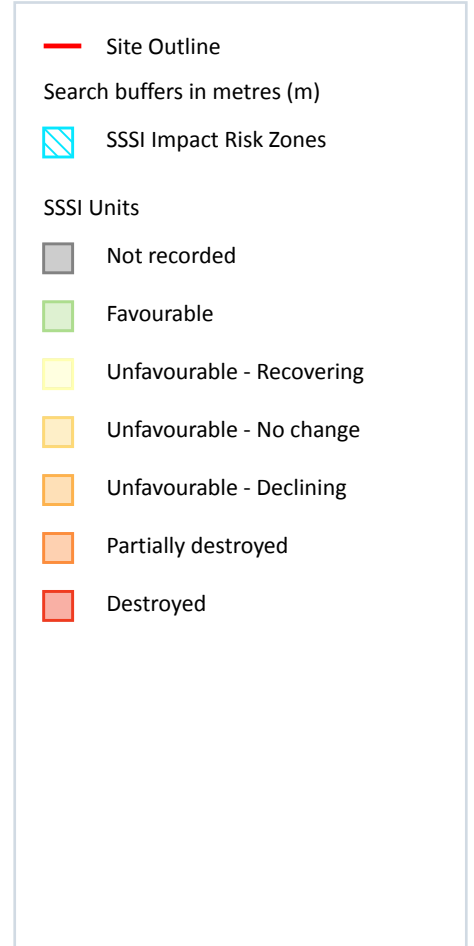
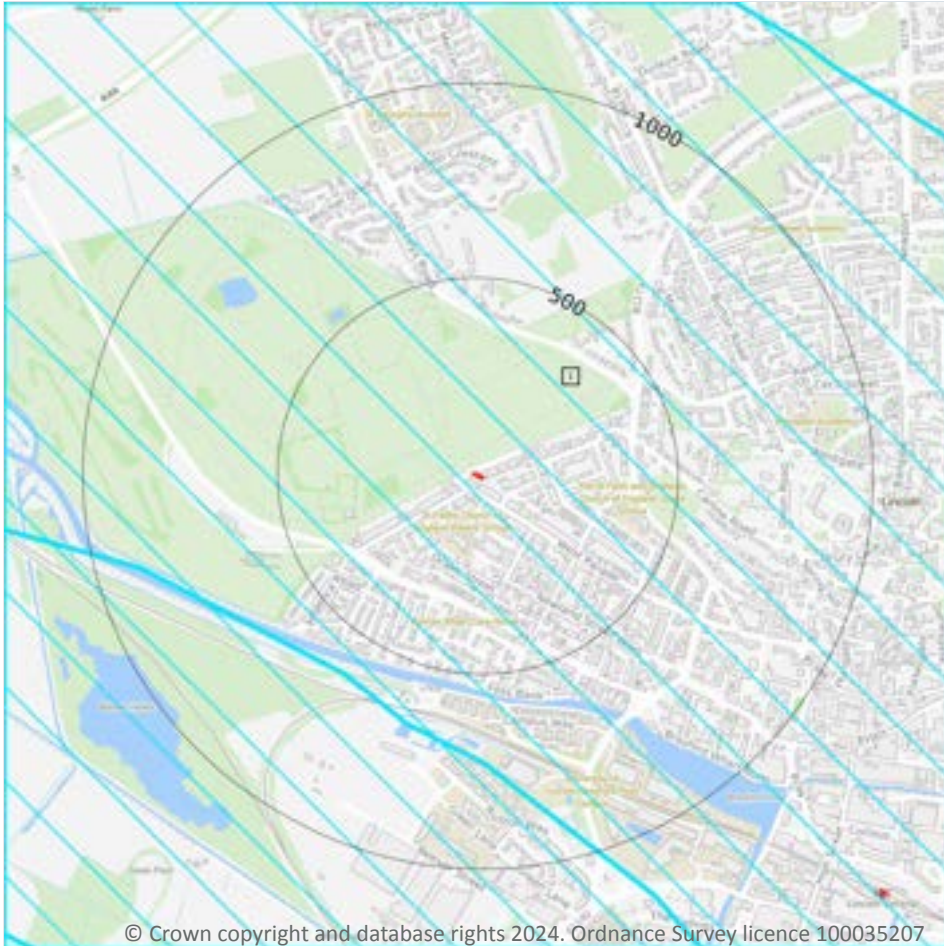
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	Lower Witham NVZ	Surface Water	375	Existing
506m E	Lincolnshire Limestone	Groundwater	69	Existing

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on [page 62](#) >

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

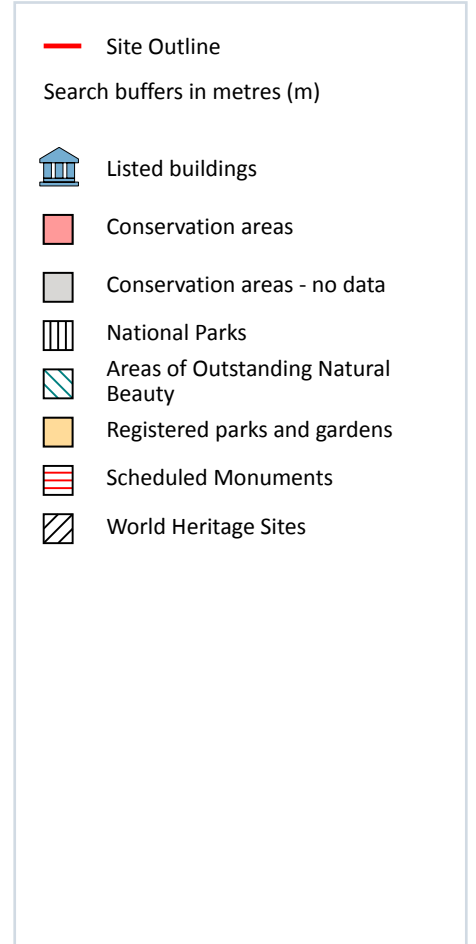
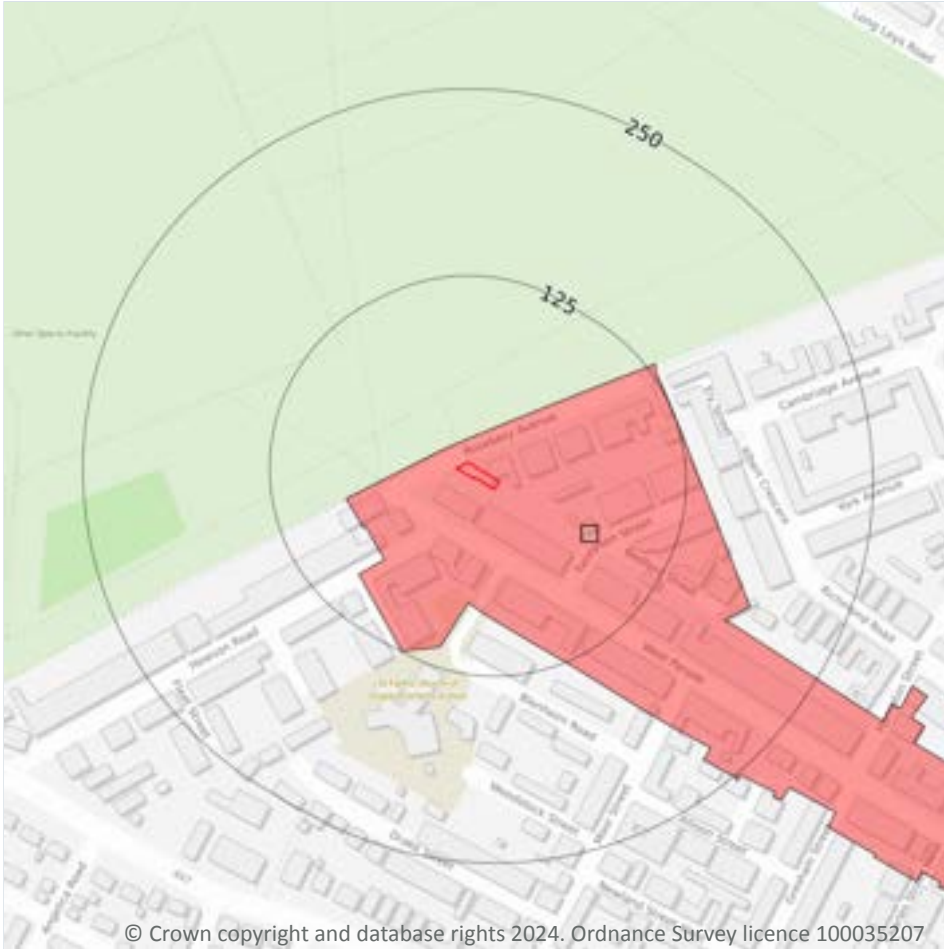
0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations



11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m**0**

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m**0**

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m**0**

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m**1**

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.



Features are displayed on the Visual and cultural designations map on [page 64 >](#)

ID	Location	Name	District	Date of designation
1	On site	West Parade and Brayford, Lincoln	Lincoln	1983

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m	0
----------------------------	----------

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

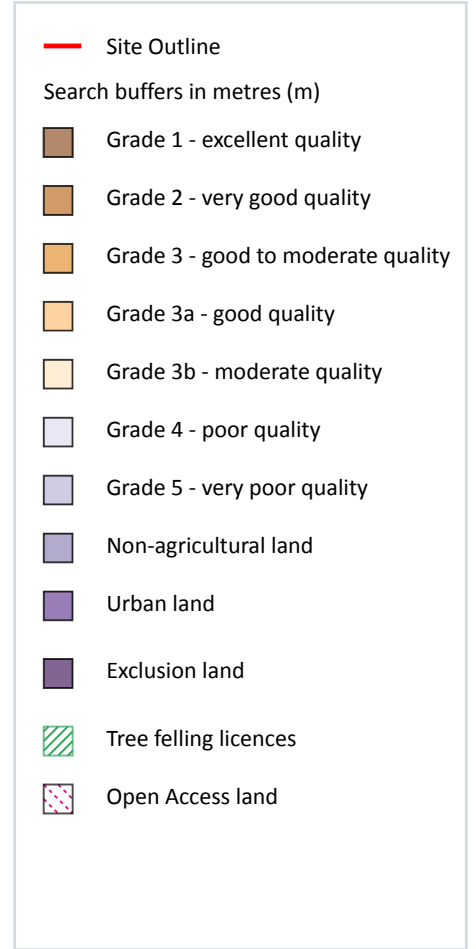
11.7 Registered Parks and Gardens

Records within 250m	0
----------------------------	----------

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



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12.1 Agricultural Land Classification

Records within 250m

2

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on [page 67](#) >

ID	Location	Classification	Description
1	On site	Urban	-
2	70m NW	Non Agricultural	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

3

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

Features are displayed on the Agricultural designations map on [page 67](#) >

ID	Location	Name	Classification	Other relevant legislation
A	13m NW	Lincoln	Section 15 Land	Lincoln City Council Act 1985
A	15m NW	West Common (Lincoln City)	Section 4 Conclusive Registered Common Land	-
A	15m NW	West Common (Lincoln City)	Section 15 Land	S.193 - Urban Borough District

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.



This data is sourced from Natural England.



13 Habitat designations



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- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

1

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on [page 70 >](#)

ID	Location	Main Habitat	Other habitats
1	185m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



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— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 72 >](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	No coverage	No coverage	No coverage	NoCov

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground

14.2 Artificial and made ground (10k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m

0

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 76 >](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	EW114_lincoln_v4

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground

15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

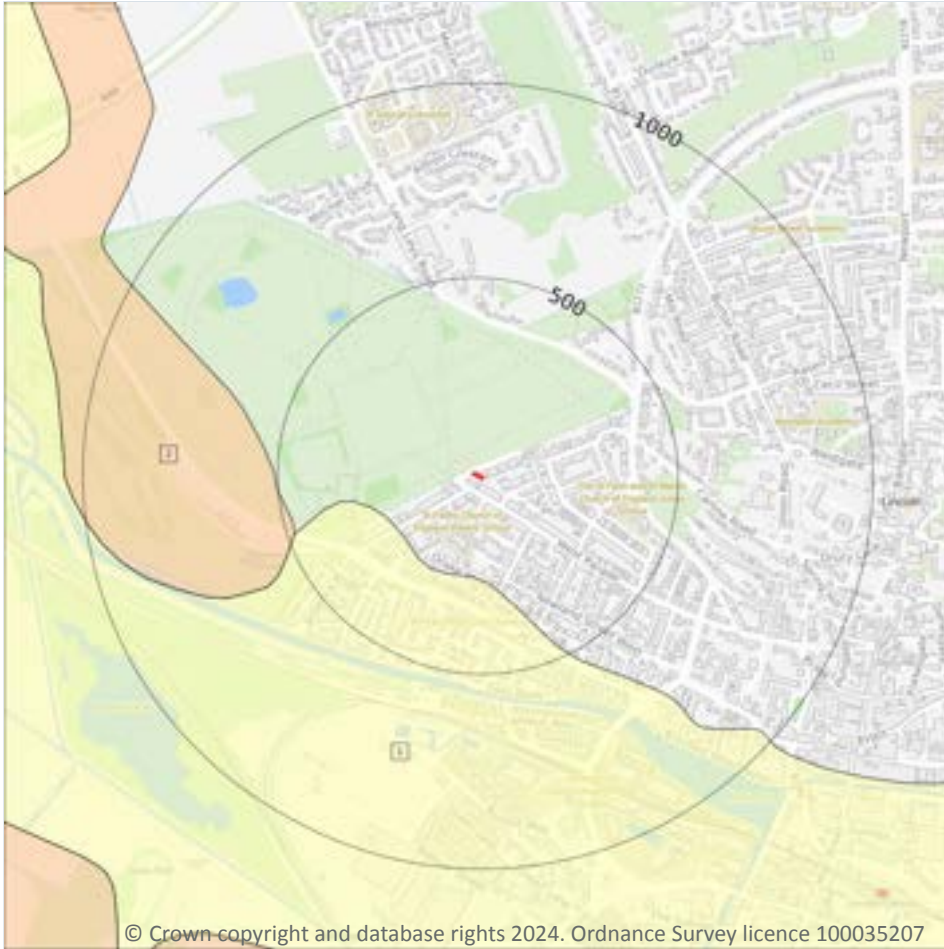
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

2

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 78](#) >

ID	Location	LEX Code	Description	Rock description
1	238m SW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	476m W	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

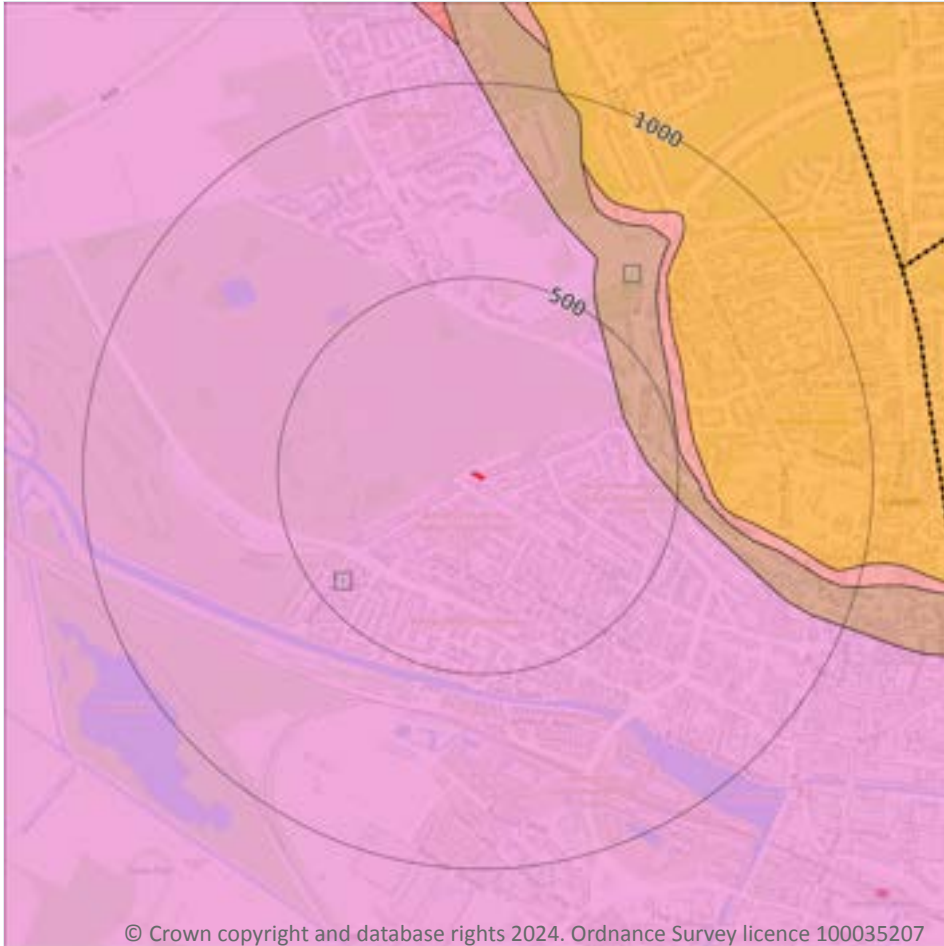
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

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15.8 Bedrock geology (50k)

Records within 500m

2

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 80](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	CHAM-MDST	CHARMOUTH MUDSTONE FORMATION - MUDSTONE	SINEMURIAN
2	392m E	WHM-MDST	WHITBY MUDSTONE FORMATION - MUDSTONE	TOARCIAN

This data is sourced from the British Geological Survey.



15.9 Bedrock permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Low	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline

Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

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16.1 BGS Boreholes

Records within 250m

1

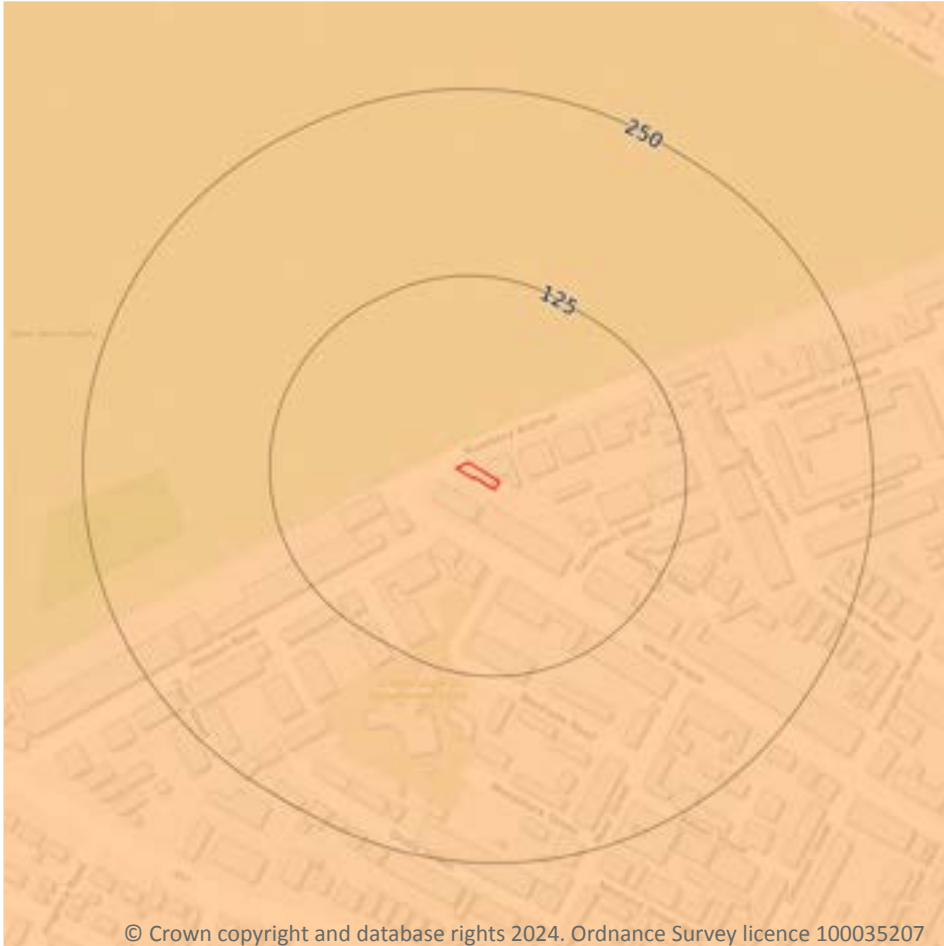
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on [page 82](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	224m SE	496740 371790	WEST PARADE LINCOLN 2	8.0	N	251312 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m

1

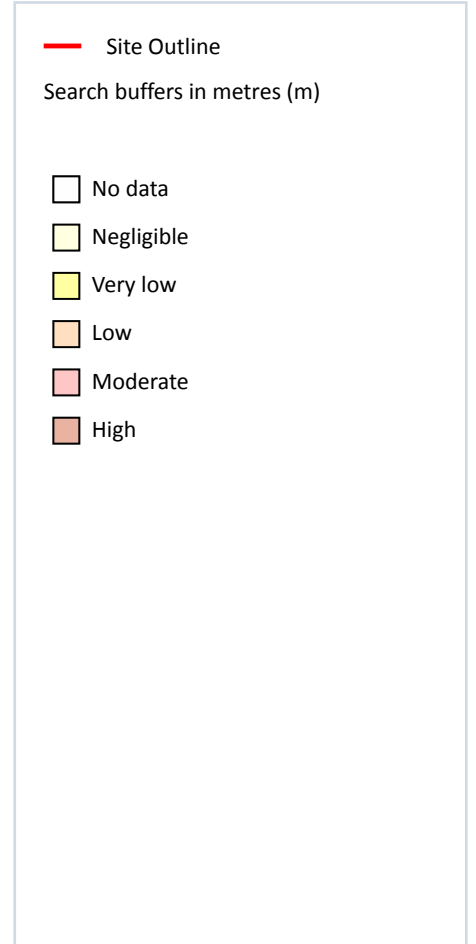
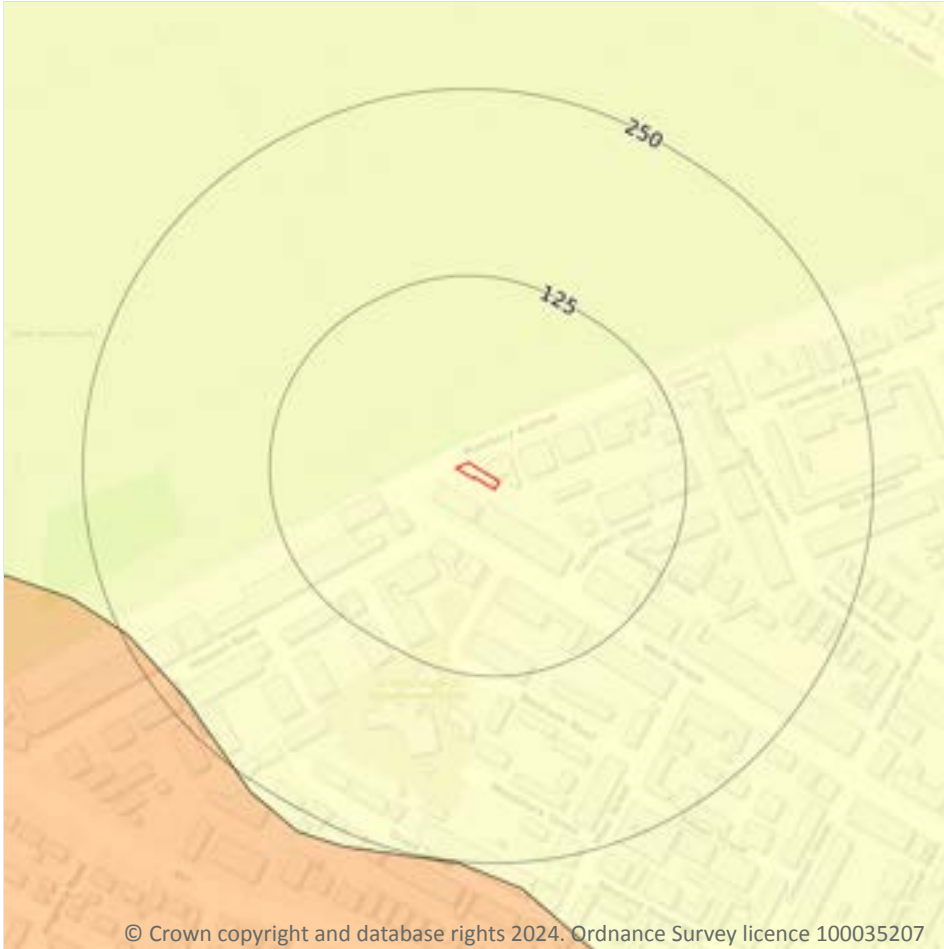
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 83](#) >

Location	Hazard rating	Details
On site	Low	Ground conditions predominantly medium plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

1

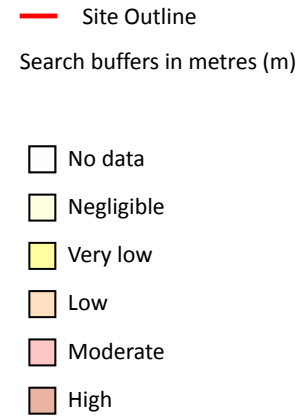
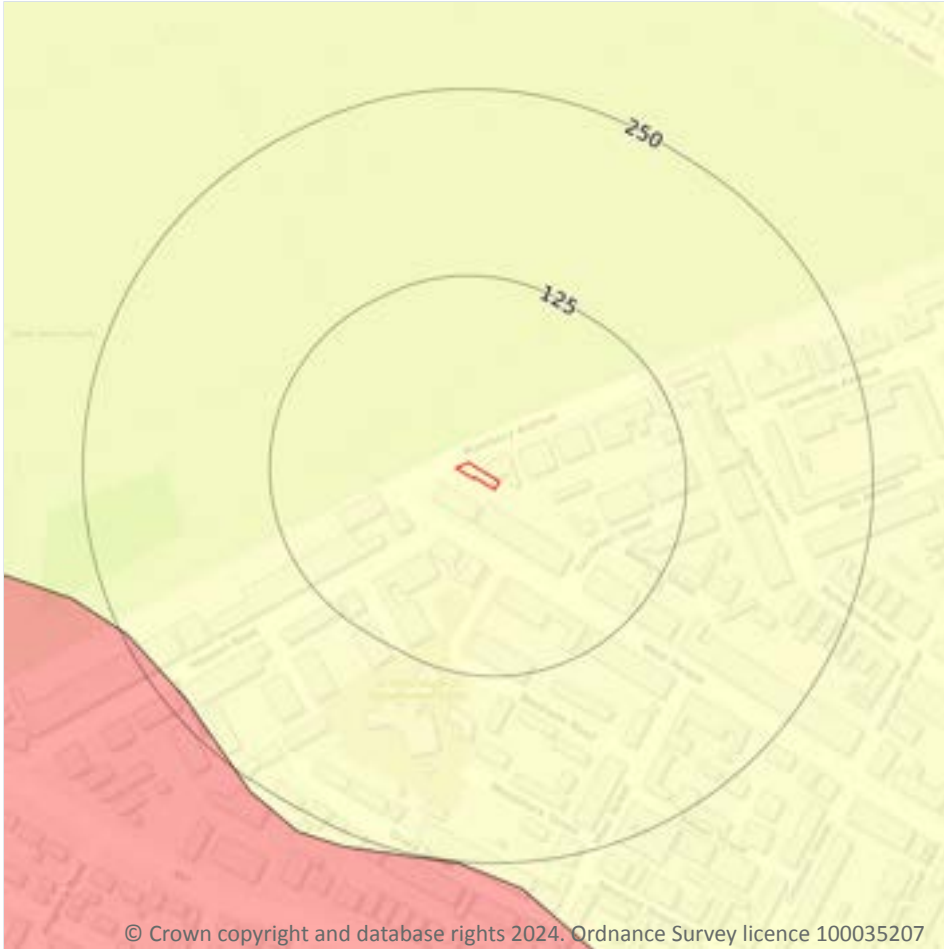
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on [page 84 >](#)

Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

1

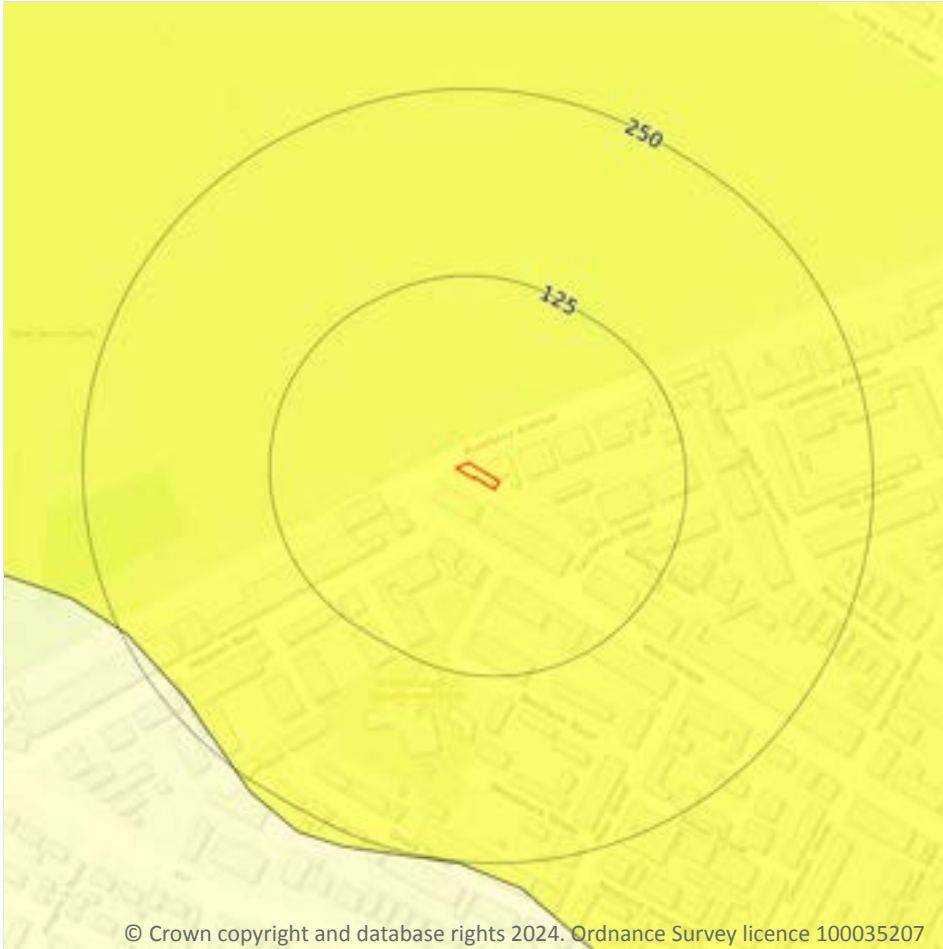
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 85 >](#)

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



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- Site Outline
- Search buffers in metres (m)
- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

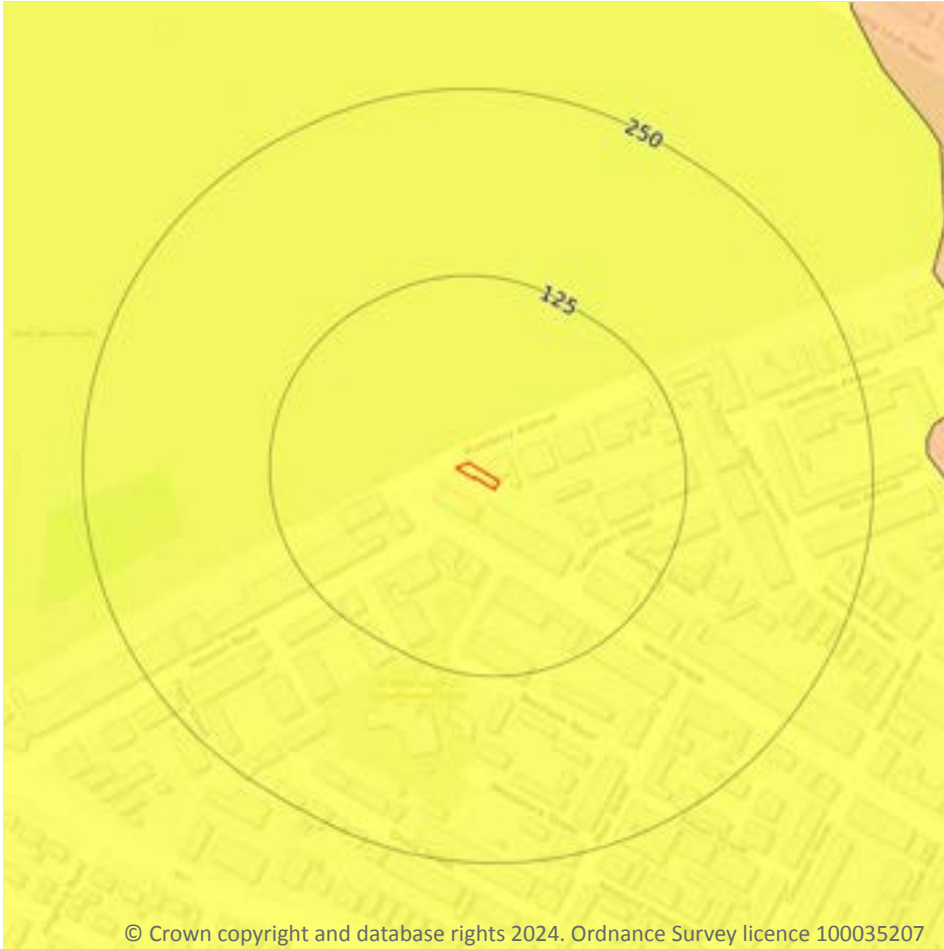
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 86 >](#)

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

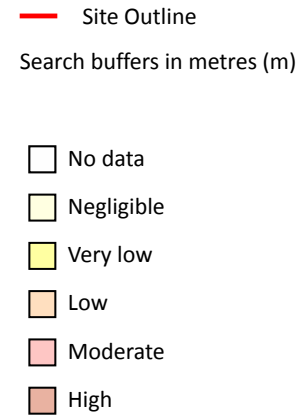
This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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17.5 Landslides

Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on [page 87](#) >

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 88](#)

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- ▨ Surface ground workings
- ▮ Underground workings
- ▭ Underground mining extents
- ▮ Historical mineral planning areas
- ▮ TCA non-coal mining
- Non Coal Mining
- ▨ Sporadic underground mining of restricted extent possible
- ▨ Localised small scale underground mining possible
- ▨ Small scale mining possible
- ▨ Underground mining known or likely within or in close proximity
- ▨ Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

2

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on [page 90](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
1	103m S	Unspecified Ground Workings	1886	1:10560
2	182m S	Pond	1886	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.



18.6 Non-coal mining

Records within 1000m

0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.



18.10 Mining record office plans

Records within 500m	0
----------------------------	----------

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0
----------------------------	----------

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	0
------------------------	----------

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0
------------------------	----------

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site	0
------------------------	----------

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.



18.15 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

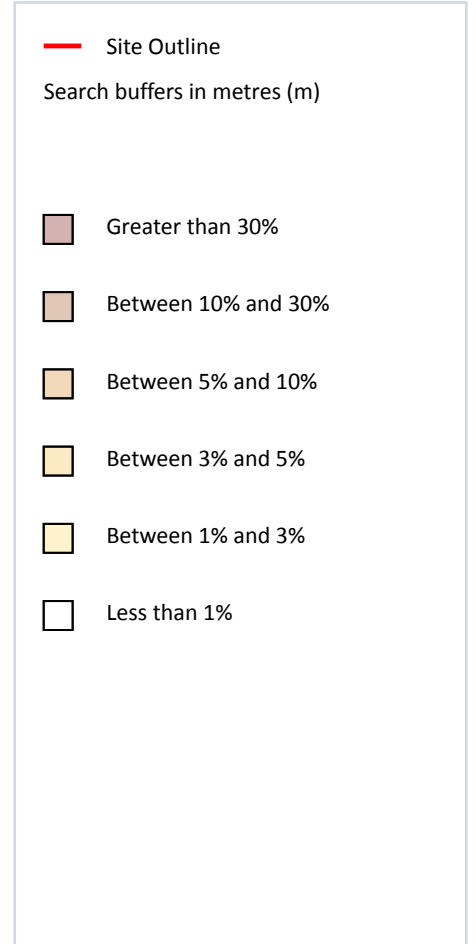
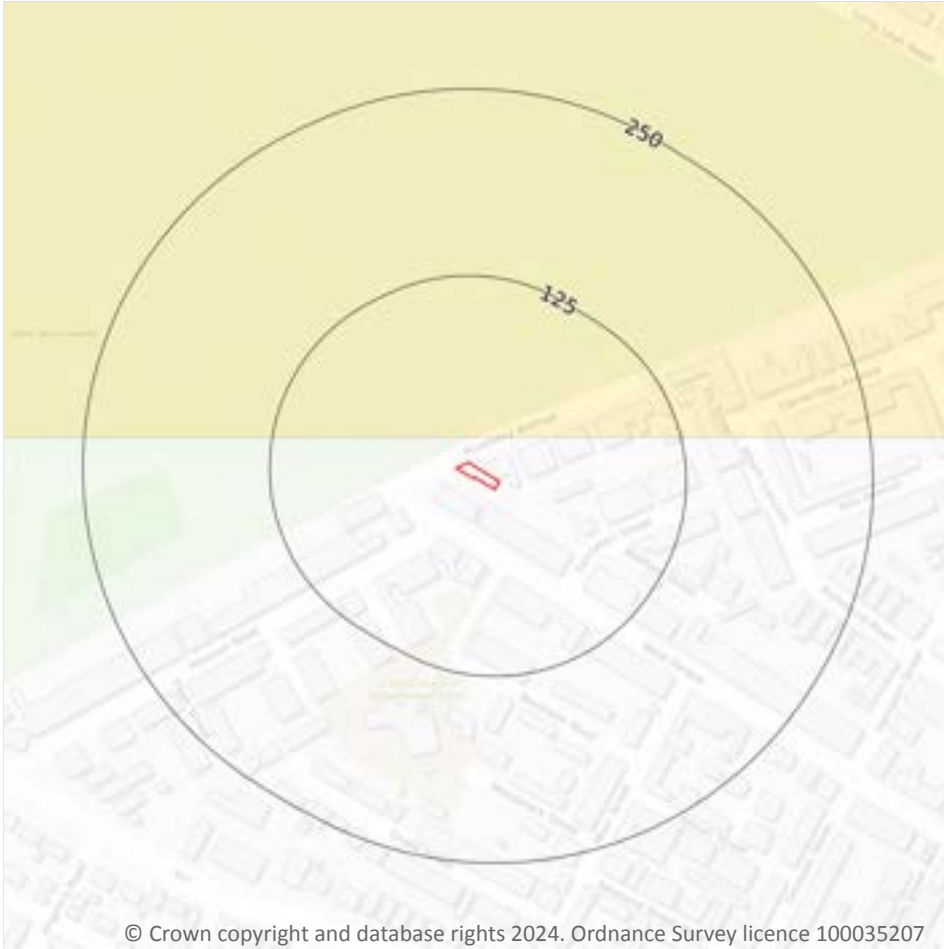
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 97 >](#)

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None



This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

4

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
42m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
42m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
48m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

6

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	12	2.1	112	77	0.3	50	44	19	10
23m E	14	2.5	107	74	0.3	52	37	21	6
40m S	16	2.8	103	71	0.3	54	42	24	10
42m N	11	1.9	125	86	0.3	50	46	17	9
48m SE	17	3	114	78	0.3	54	37	25	6



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
48m W	11	1.9	78	54	0.3	48	38	18	8

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m 0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m 0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m 0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m 0

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m 0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.



This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0
----------------------------	----------

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0
----------------------------	----------

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m	0
----------------------------	----------

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m	0
----------------------------	----------

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m	0
----------------------------	----------

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference> ↗.

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Appendix B2 – Historical Ordnance Survey Maps

Site Details:

GARAGE, ROSEBERY AVENUE,
LINCOLN, LN1 1ND

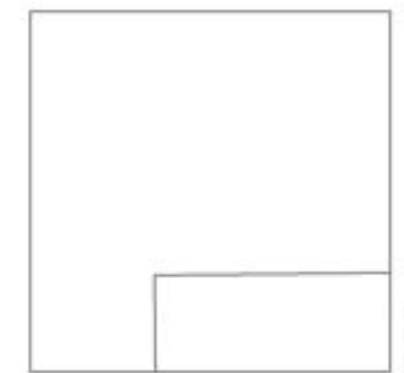
Client Ref: Garage_Rosebery_Avenue_Lincoln
Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: County Series Town Plan

Map date: 1887

Scale: 1:500

Printed at: 1:1,000



Surveyed 1887
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

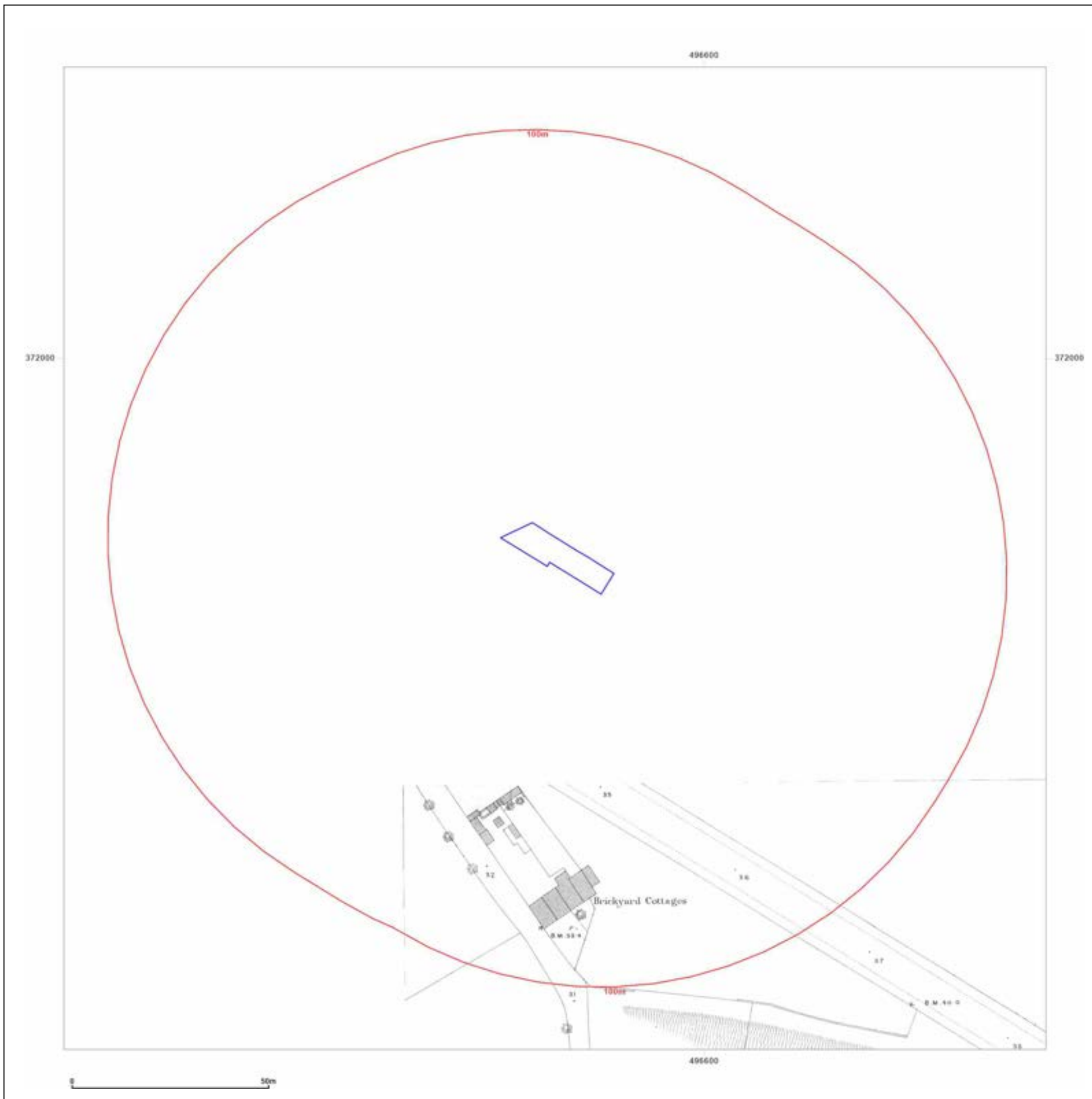


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Map legend available at:
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Site Details:

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LINCOLN, LN1 1ND

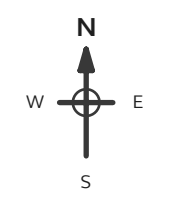
Client Ref: Garage_Rosebery_Avenue_Lincoln
Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: County Series

Map date: 1889

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1889
Revised 1889
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1889
Revised 1889
Edition N/A
Copyright N/A
Levelled N/A

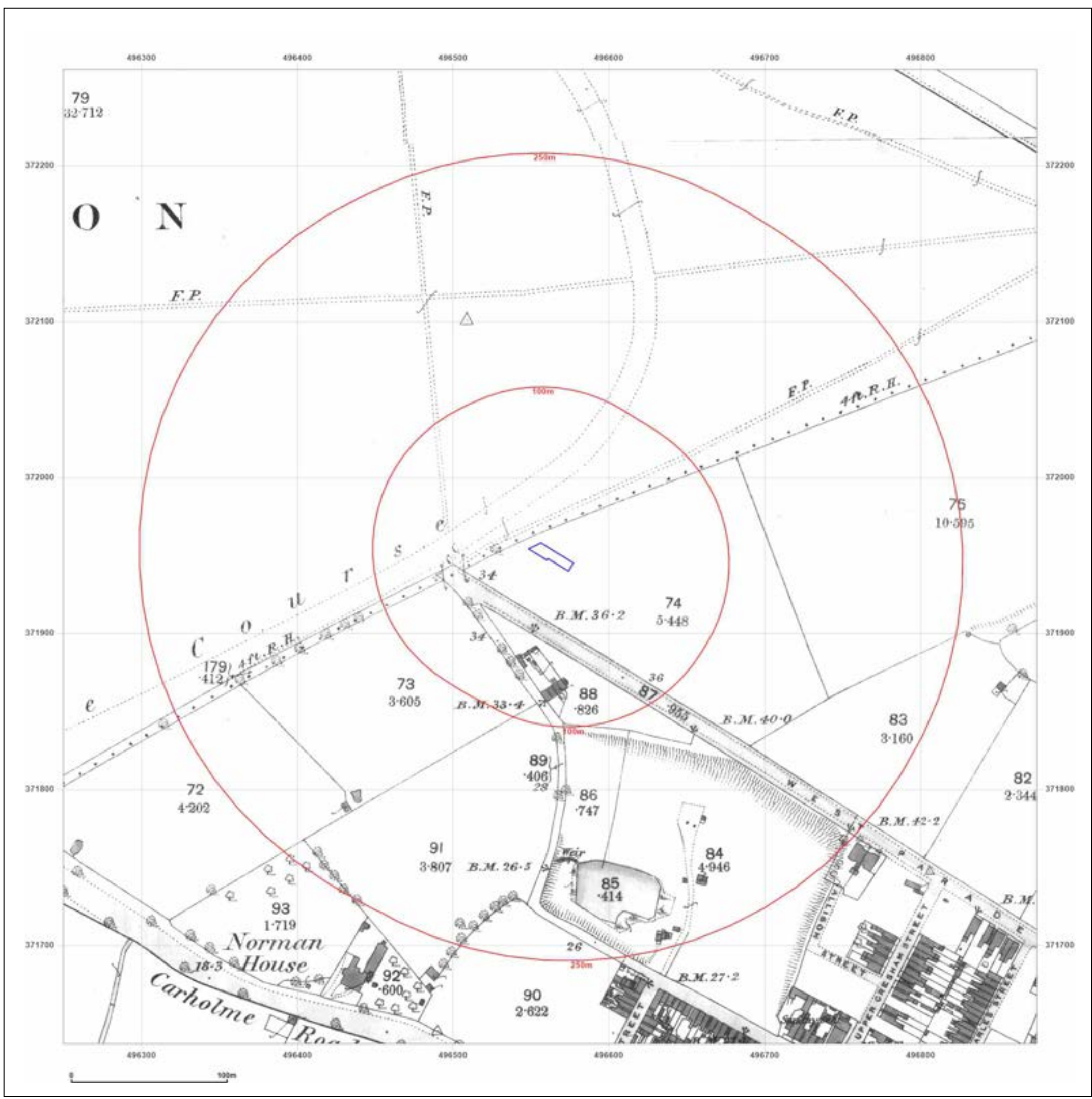


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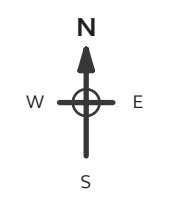
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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: County Series

Map date: 1907

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

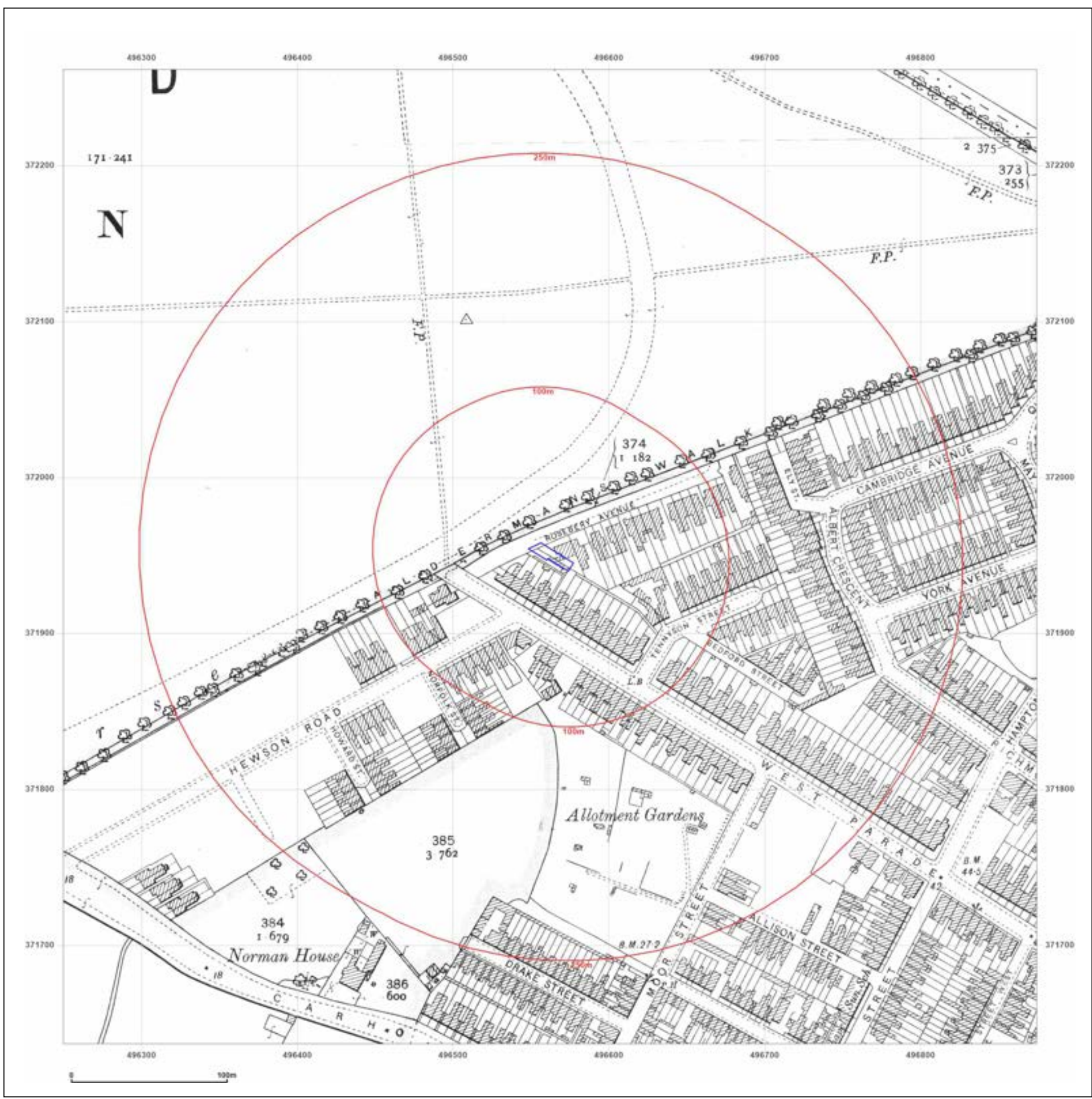


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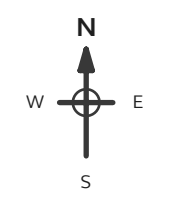
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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: County Series

Map date: 1932

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1932
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Client Ref: Garage_Rosebery_Avenue_Lincoln
Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: National Grid

Map date: 1965

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1965
Revised 1965
Edition N/A
Copyright 1987
Levelled 1954

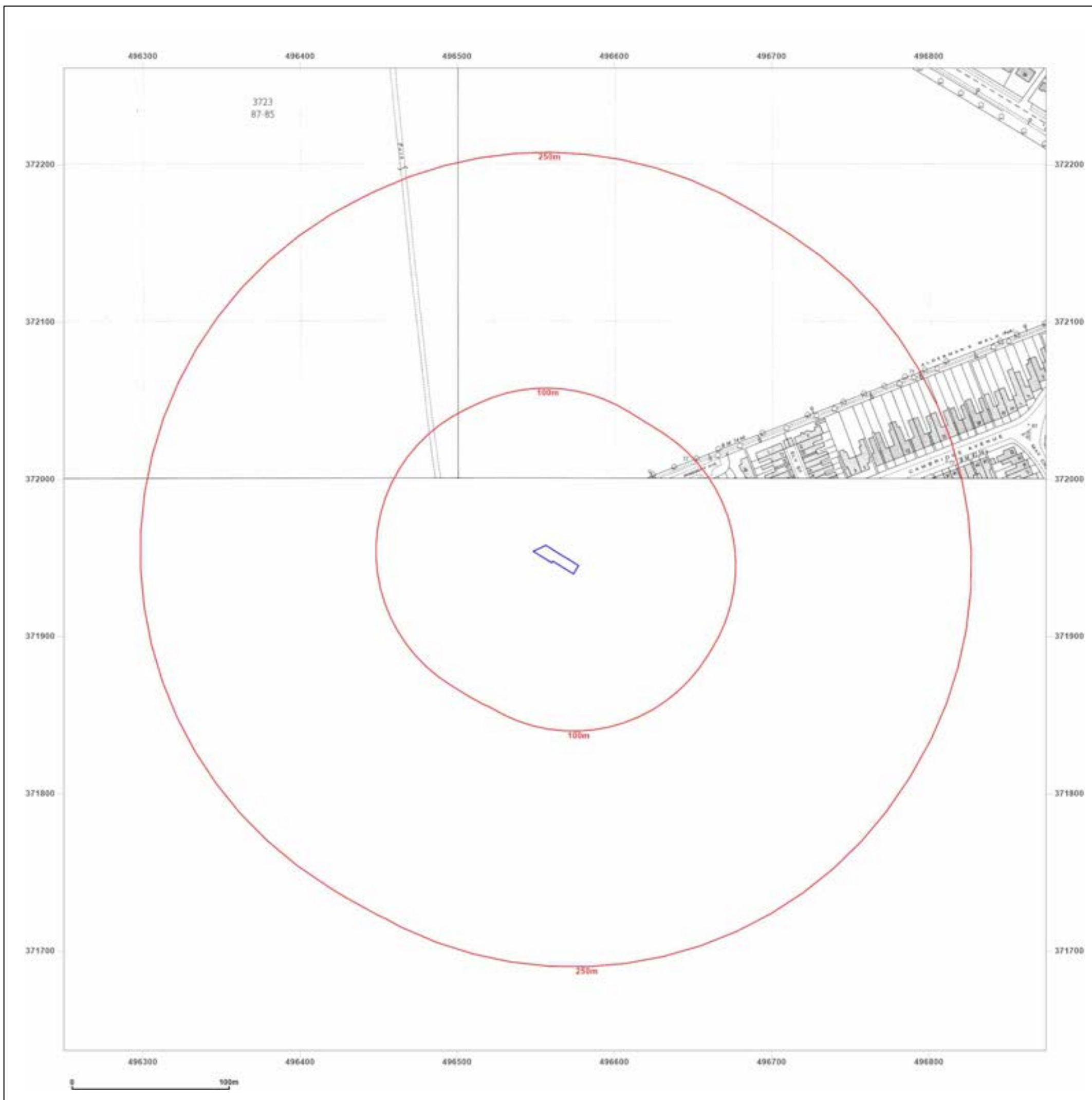


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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: National Grid

Map date: 1966-1967

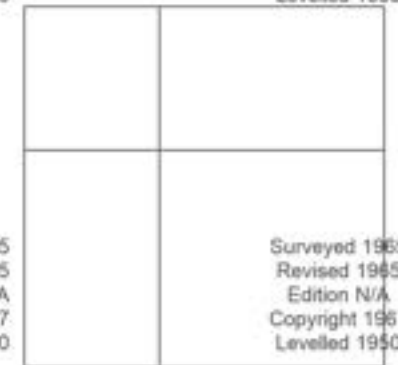
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Surveyed 1965 Revised 1965 Edition N/A Copyright 1966 Levelled 1950	Surveyed 1965 Revised 1965 Edition N/A Copyright 1966 Levelled 1950
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Surveyed 1965 Revised 1965 Edition N/A Copyright 1967 Levelled 1950	Surveyed 1965 Revised 1965 Edition N/A Copyright 1967 Levelled 1950
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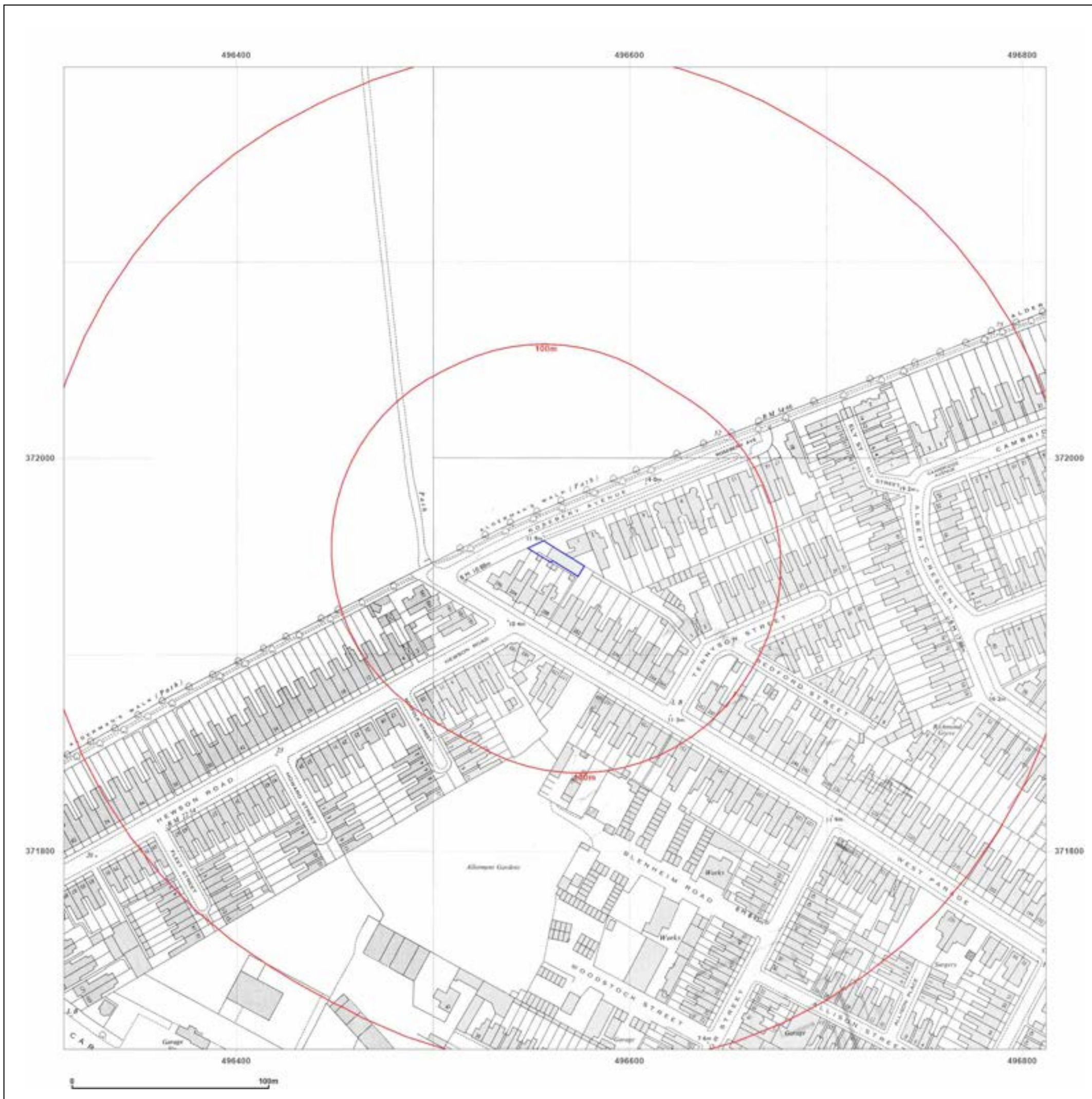


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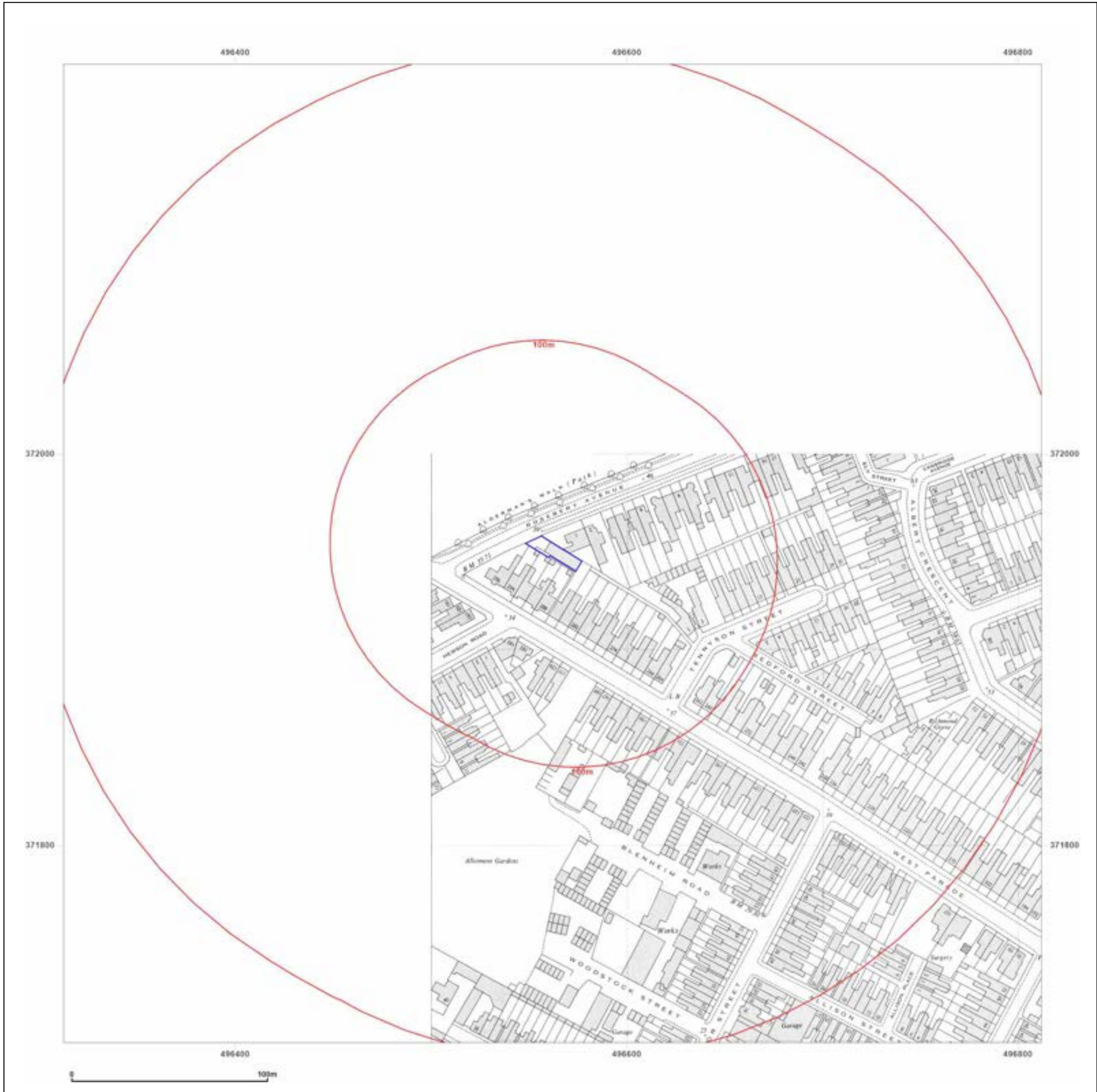
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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: National Grid

Map date: 1967

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1965
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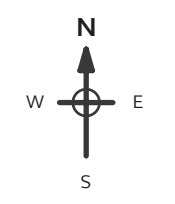
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Grid Ref: 496562, 371949

Map Name: National Grid

Map date: 1966-1967

Scale: 1:2,500

Printed at: 1:2,500



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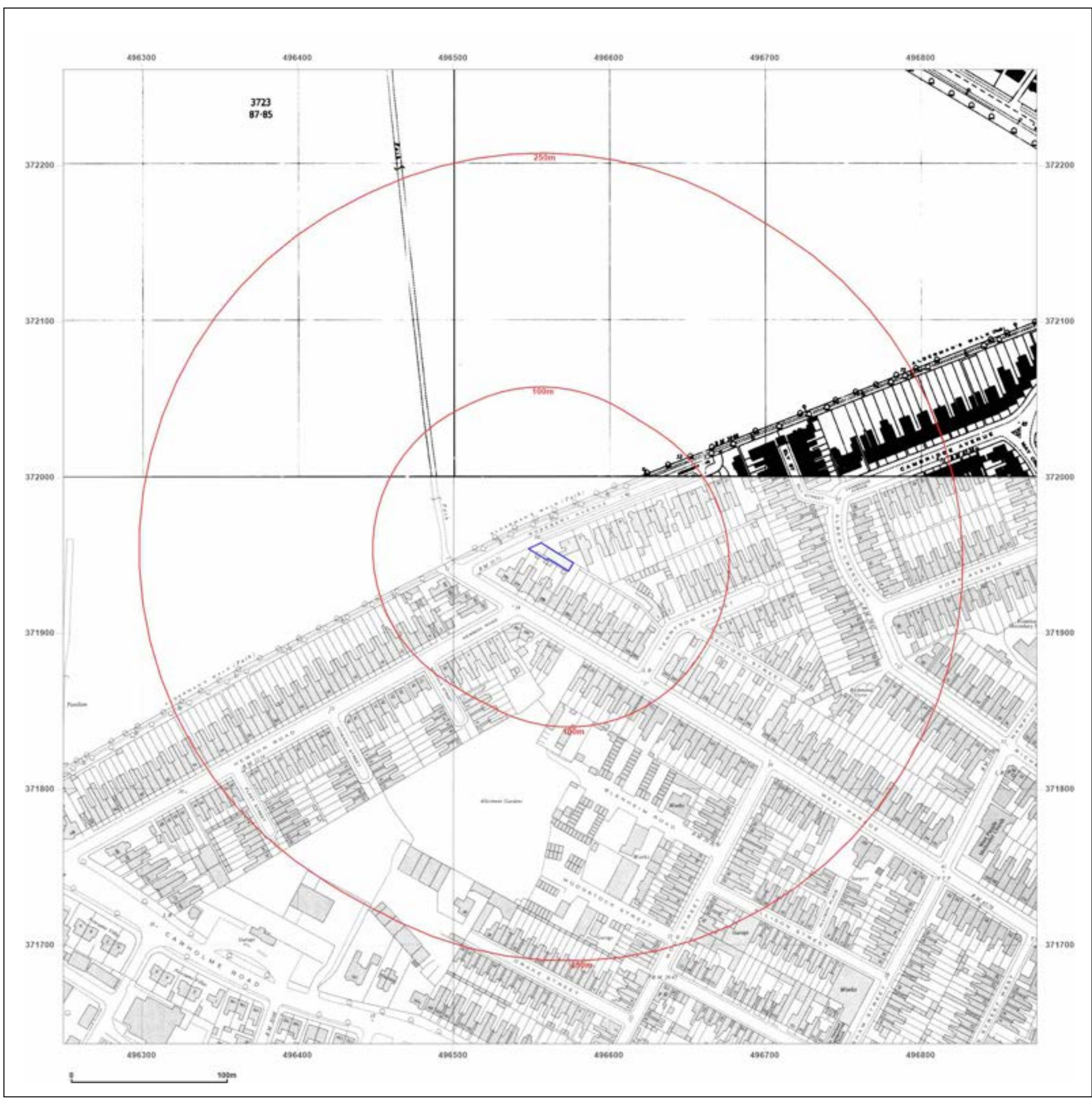


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Client Ref: Garage_Rosebery_Avenue_Lincoln
Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: National Grid

Map date: 1981

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
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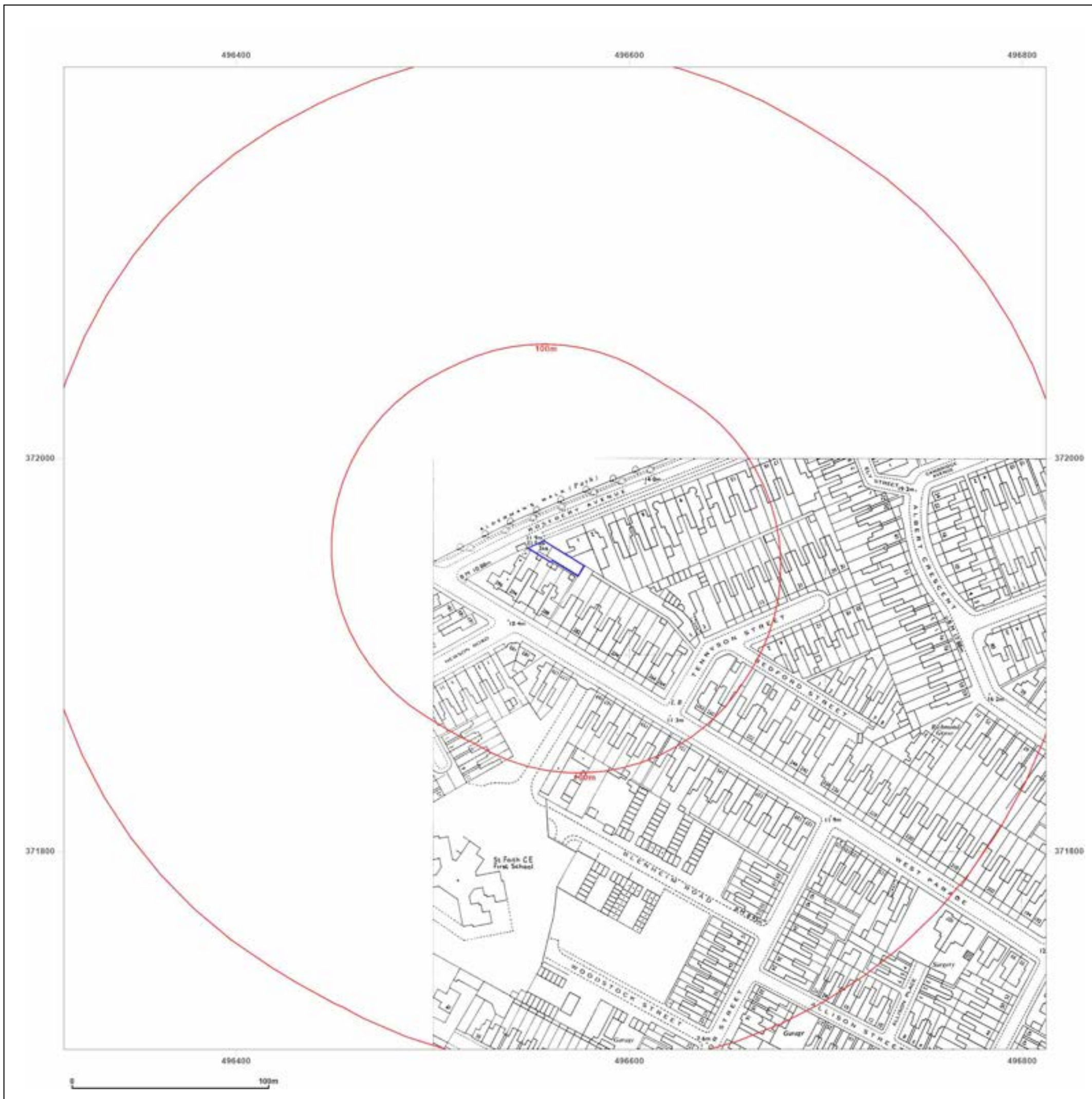


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Client Ref: Garage_Rosebery_Avenue_Lincoln
Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: National Grid

Map date: 1986-1988

Scale: 1:1,250

Printed at: 1:2,000



<p>Surveyed 1967 Revised 1988 Edition N/A Copyright 1988 Levelled 1967</p>	<p>Surveyed 1967 Revised 1988 Edition N/A Copyright 1988 Levelled 1967</p>
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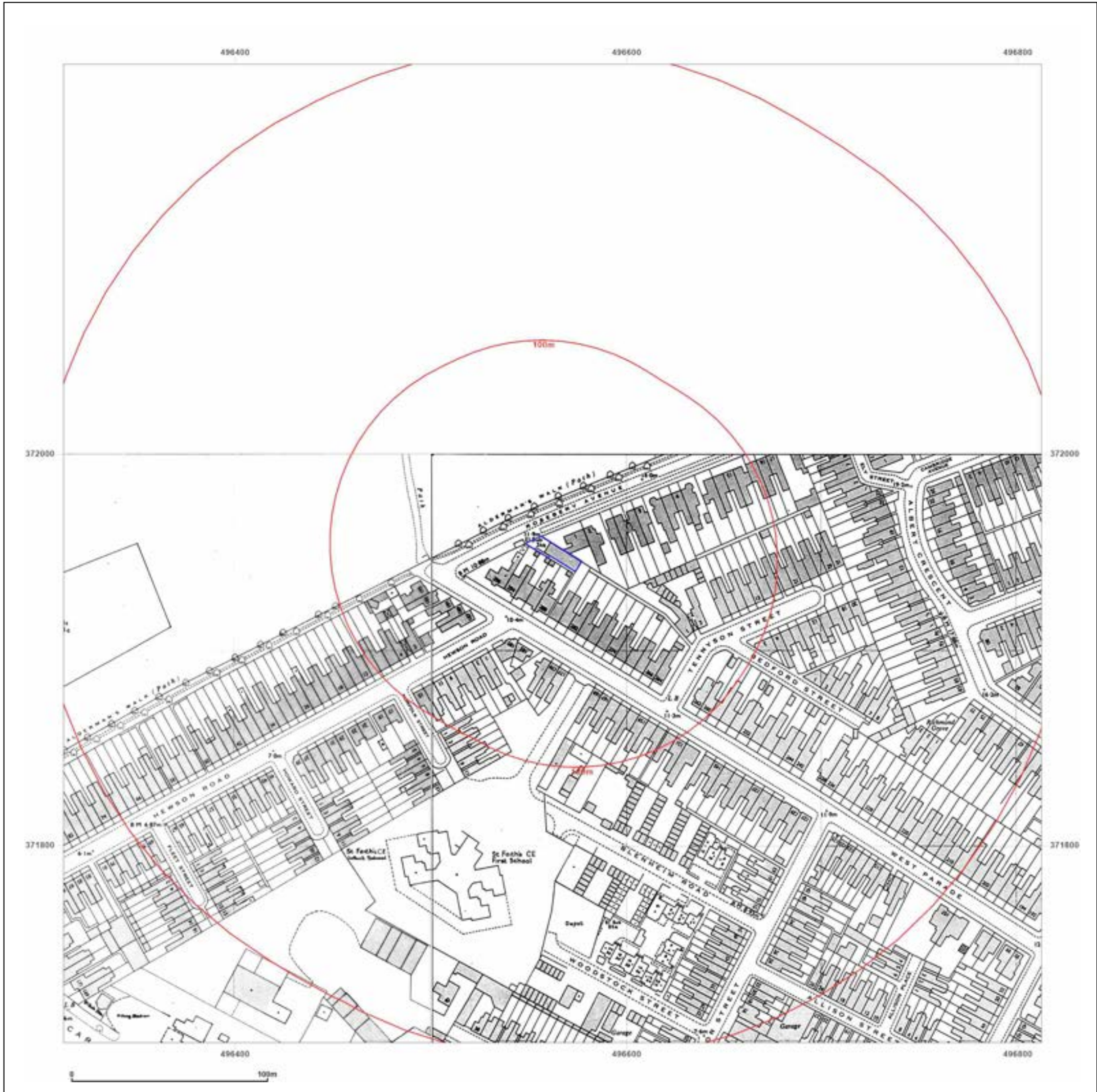


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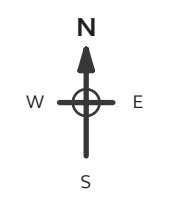
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Grid Ref: 496562, 371949

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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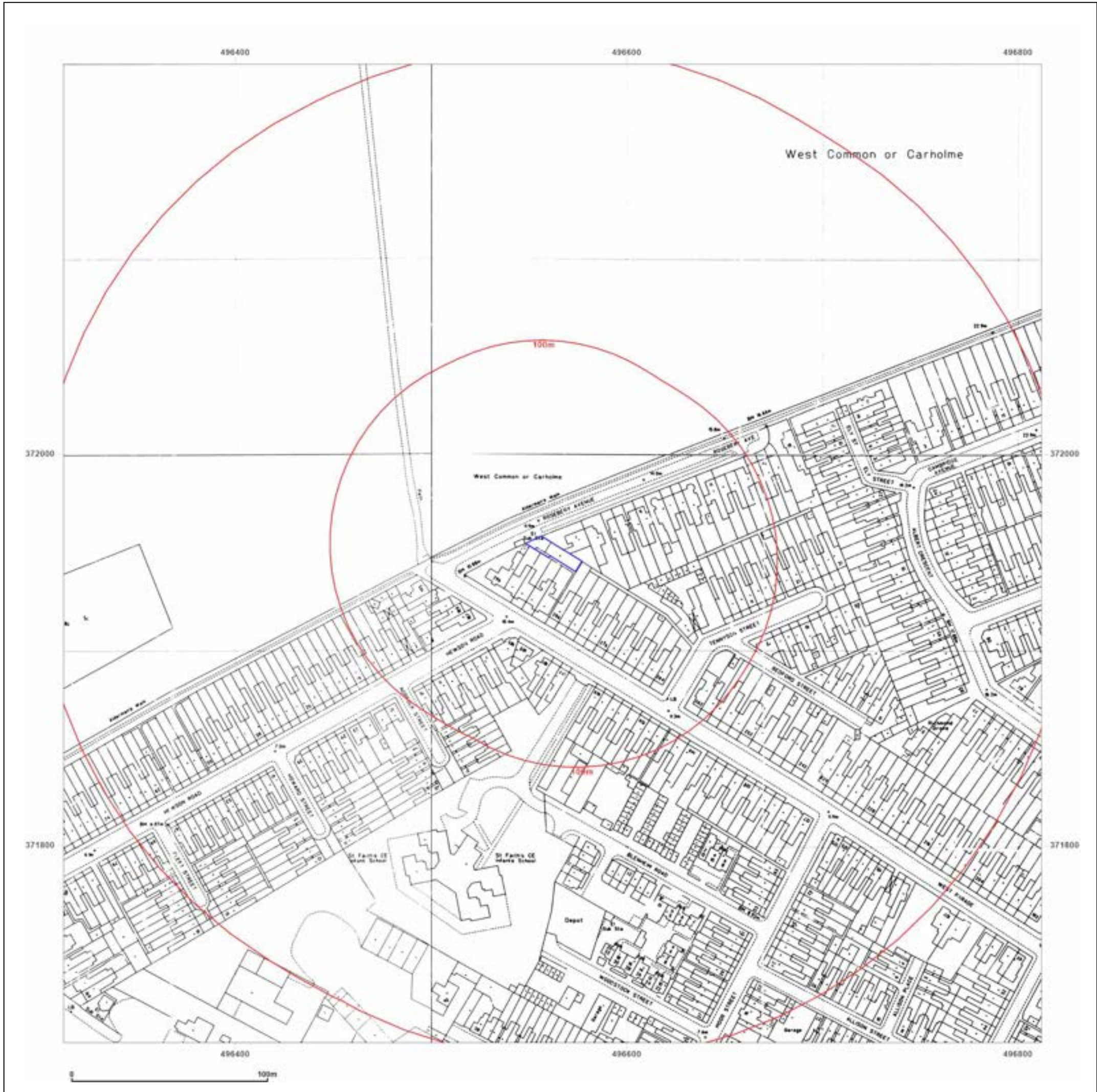


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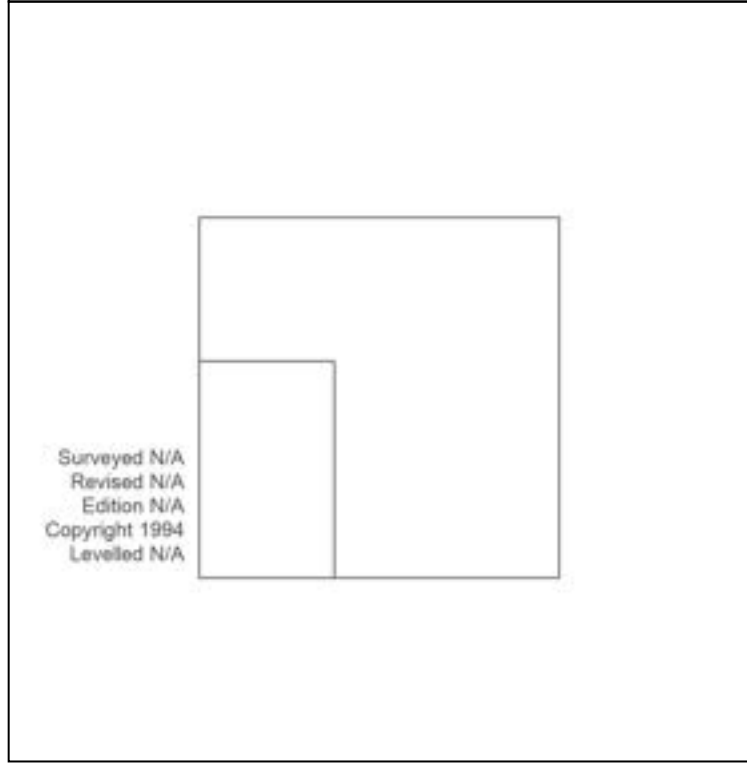
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Grid Ref: 496562, 371949

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

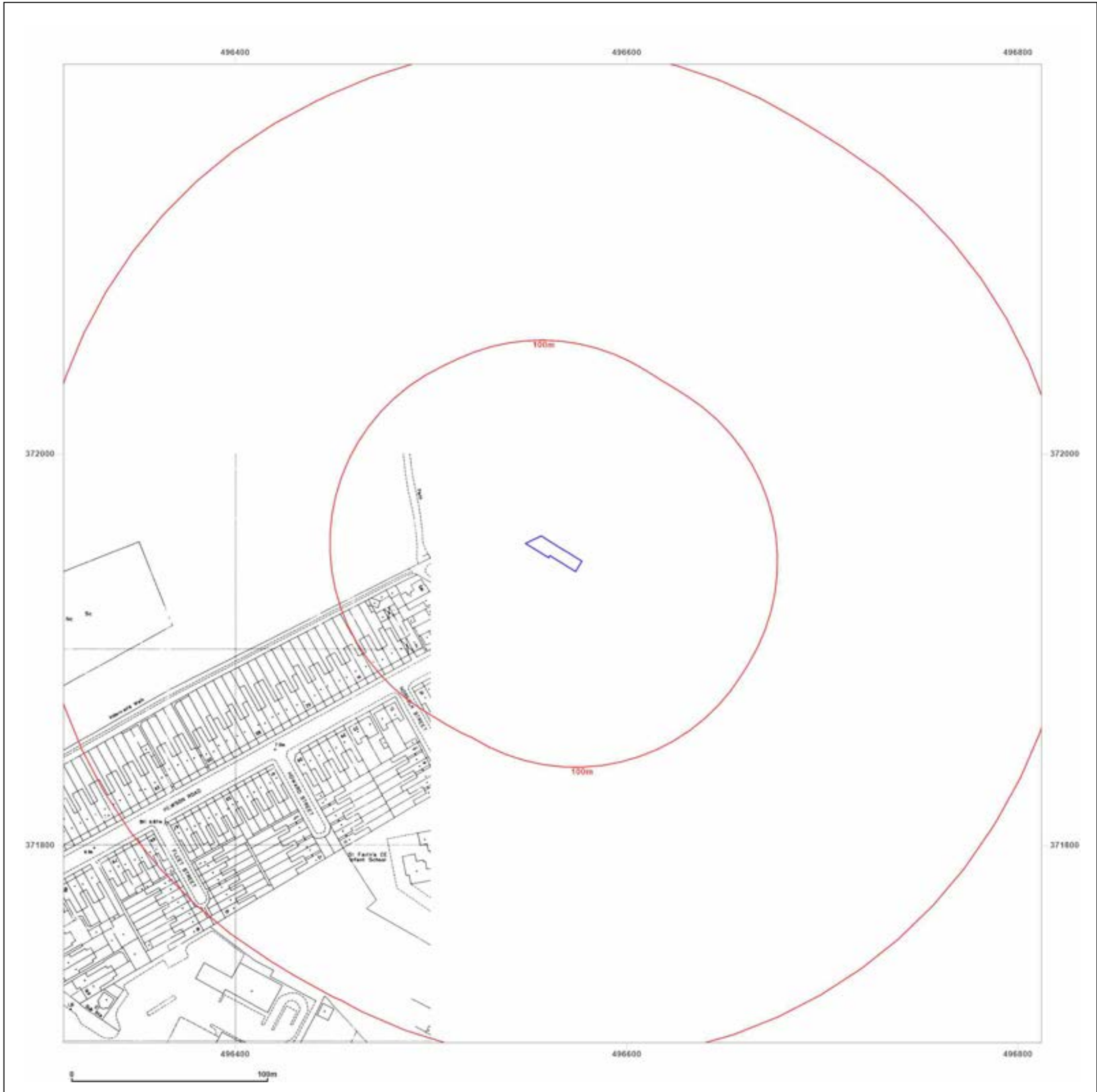


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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: National Grid

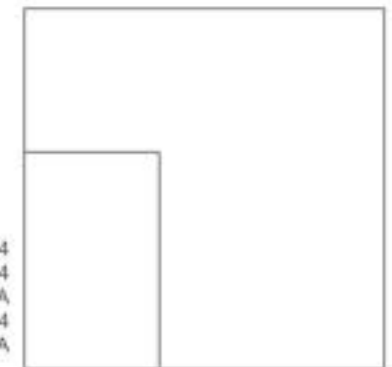
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Surveyed 1994
Revised 1994
Edition N/A
Copyright 1994
Levelled N/A

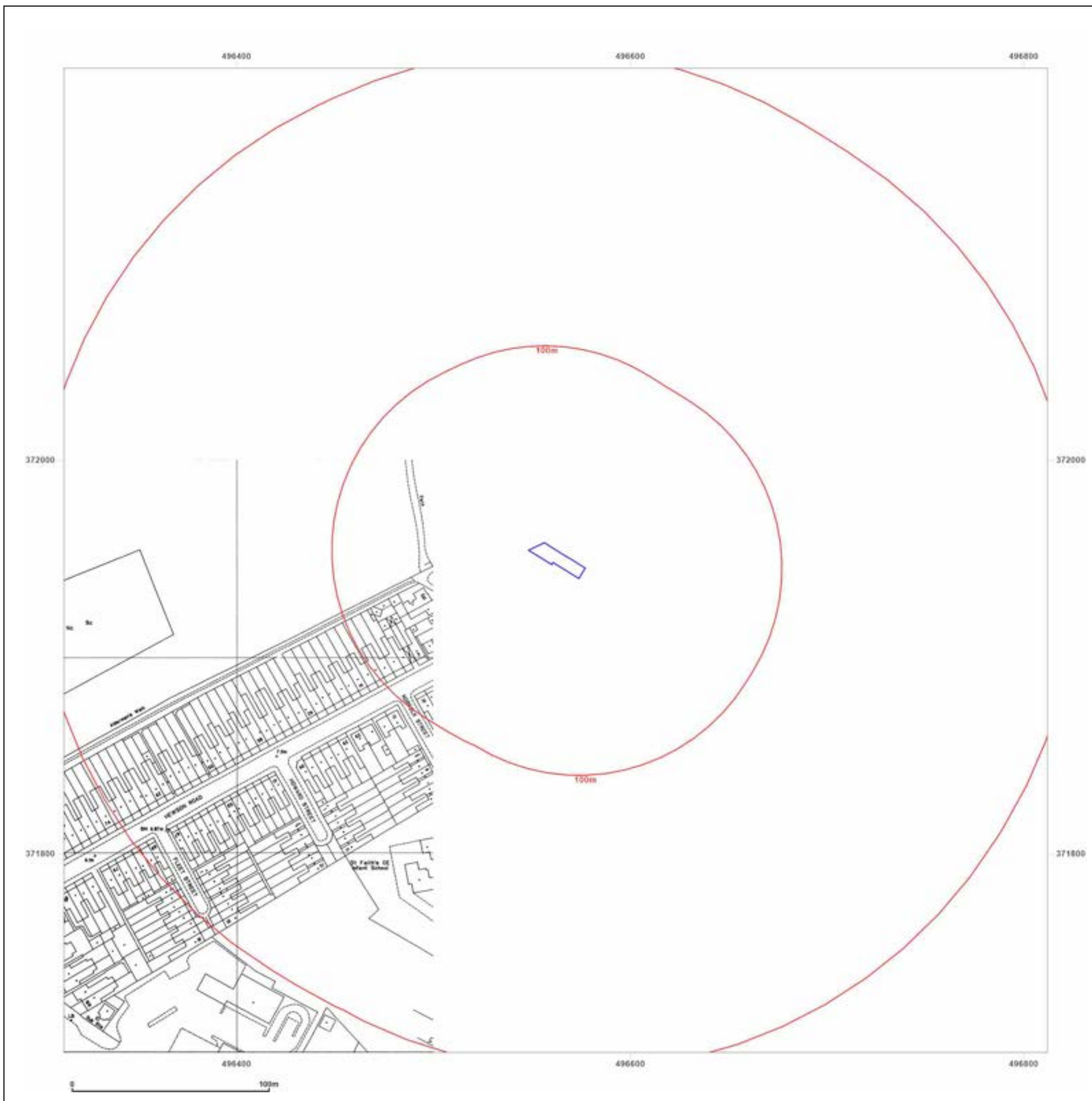


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Client Ref: Garage_Rosebery_Avenue_Lincoln
Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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LINCOLN, LN1 1ND

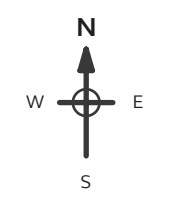
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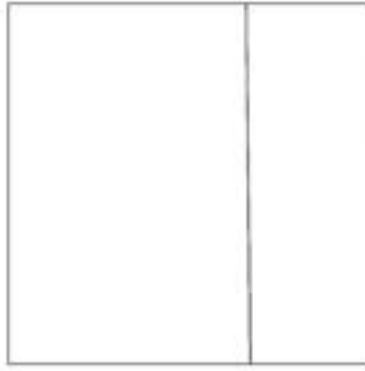
Map Name: County Series

Map date: 1886

Scale: 1:10,560

Printed at: 1:10,560



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Client Ref: Garage_Rosebery_Avenue_Lincoln
Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: County Series

Map date: 1904-1905

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1886
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

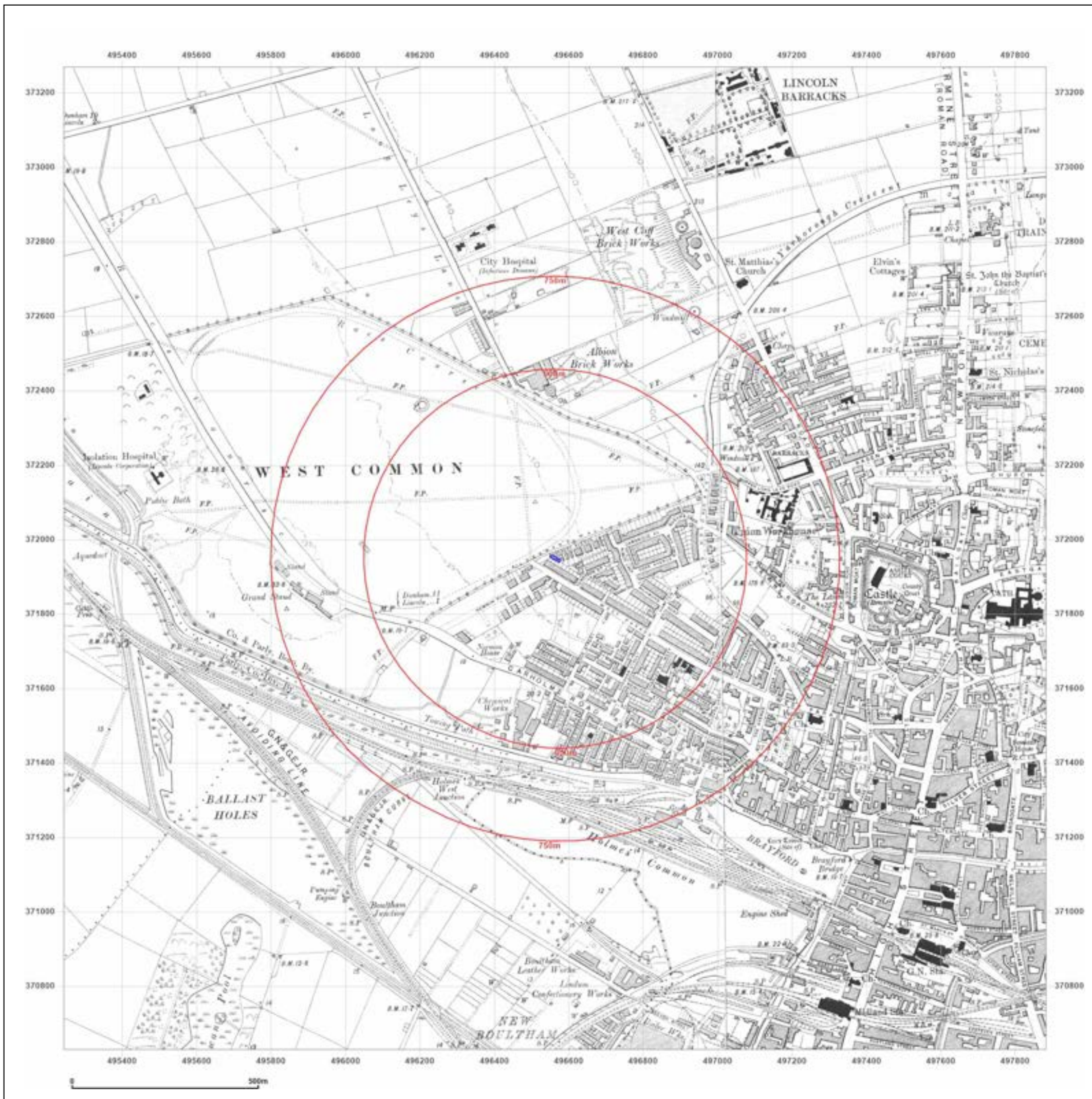


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Client Ref: Garage_Rosebery_Avenue_Lincoln
Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: County Series

Map date: 1930

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1886
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

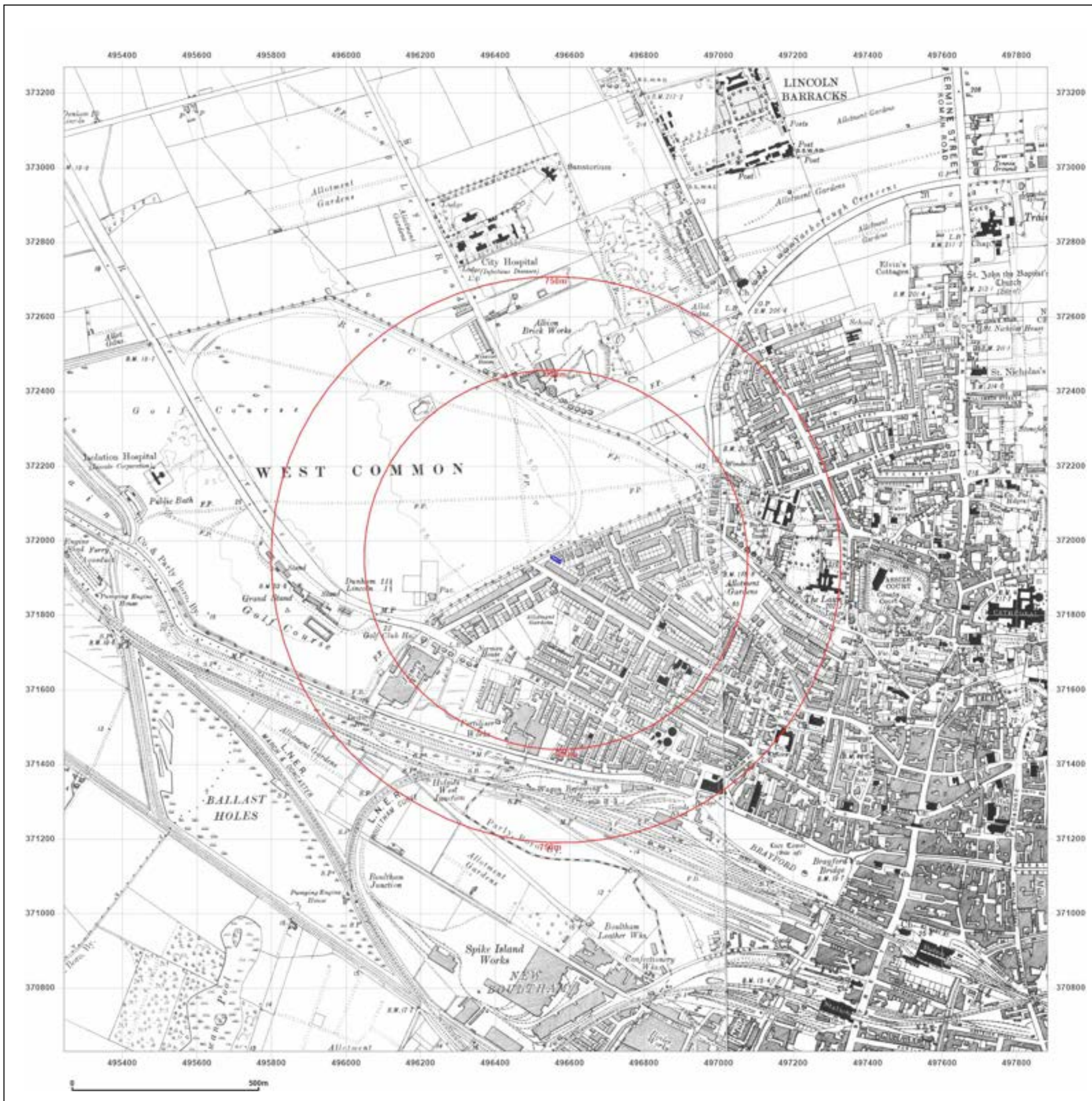


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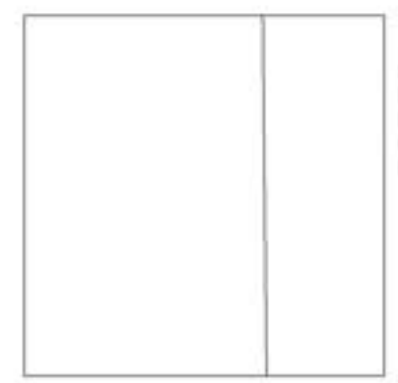
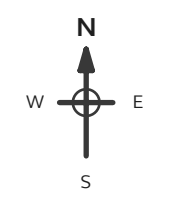
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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: County Series

Map date: 1932

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1886
Revised 1932
Edition N/A
Copyright N/A
Levelled N/A

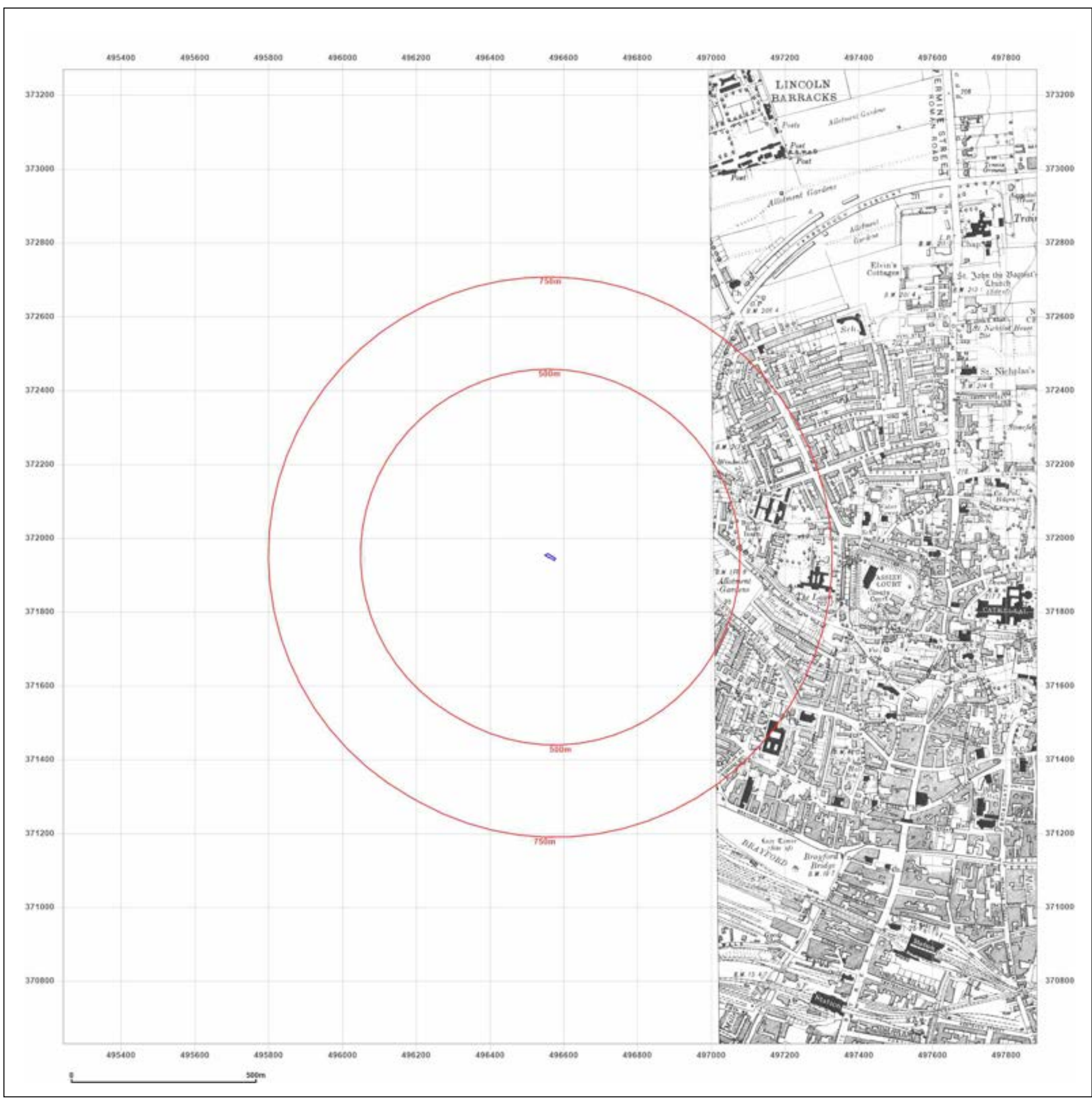


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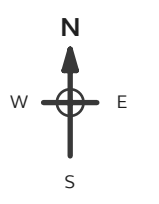
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Site Details:
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 LINCOLN, LN1 1ND

Client Ref: Garage_Rosebery_Avenue_Lincoln
Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: County Series
Map date: 1938
Scale: 1:10,560
Printed at: 1:10,560



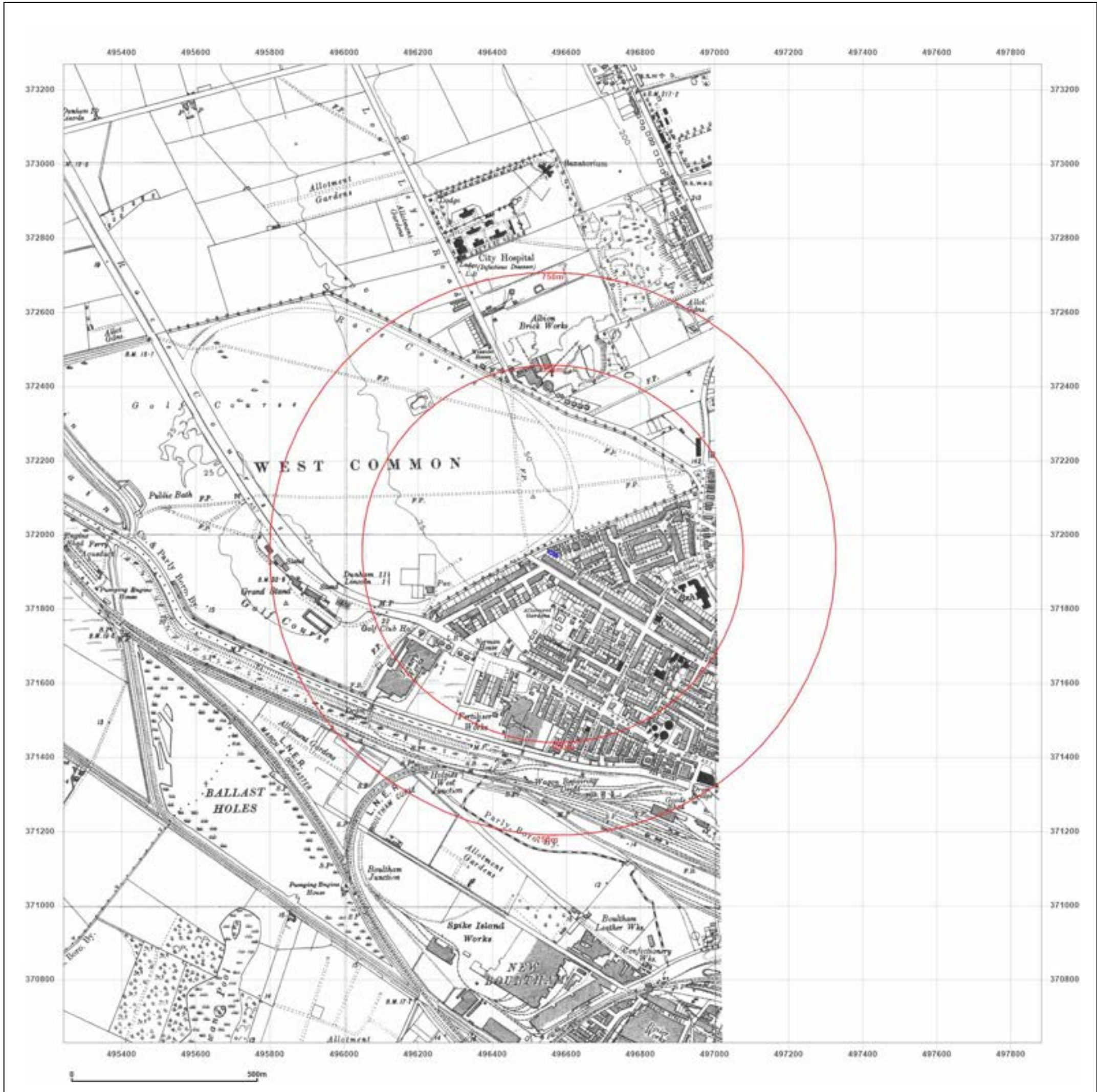
Surveyed 1886
 Revised 1938
 Edition 1938
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 Levelled N/A

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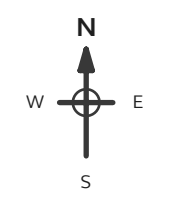
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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: County Series

Map date: 1946-1948

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1886
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1946
Edition N/A
Copyright N/A
Levelled N/A

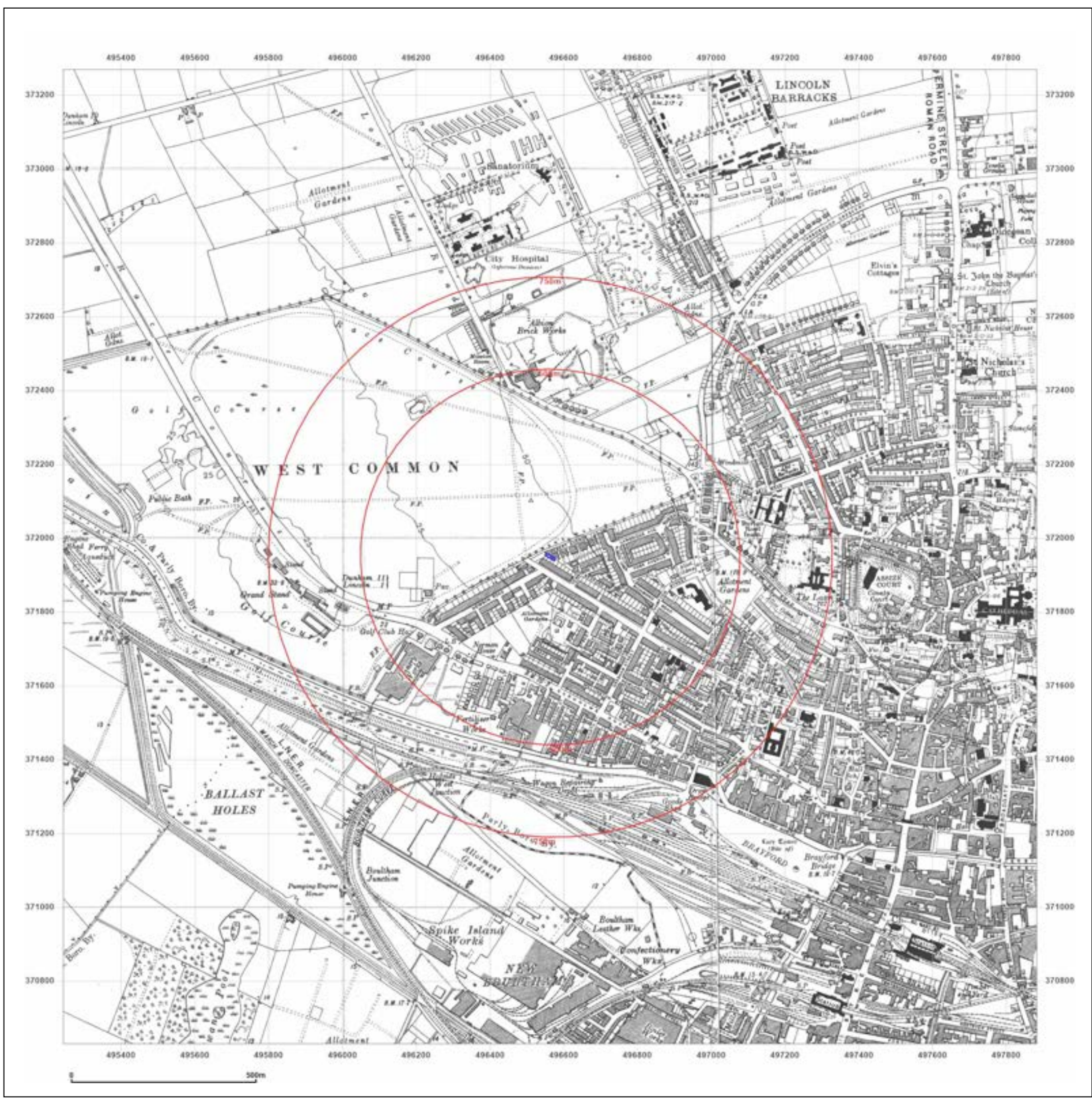


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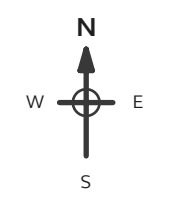
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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: Provisional

Map date: 1956

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1955
Edition N/A
Copyright 1956
Levelled N/A

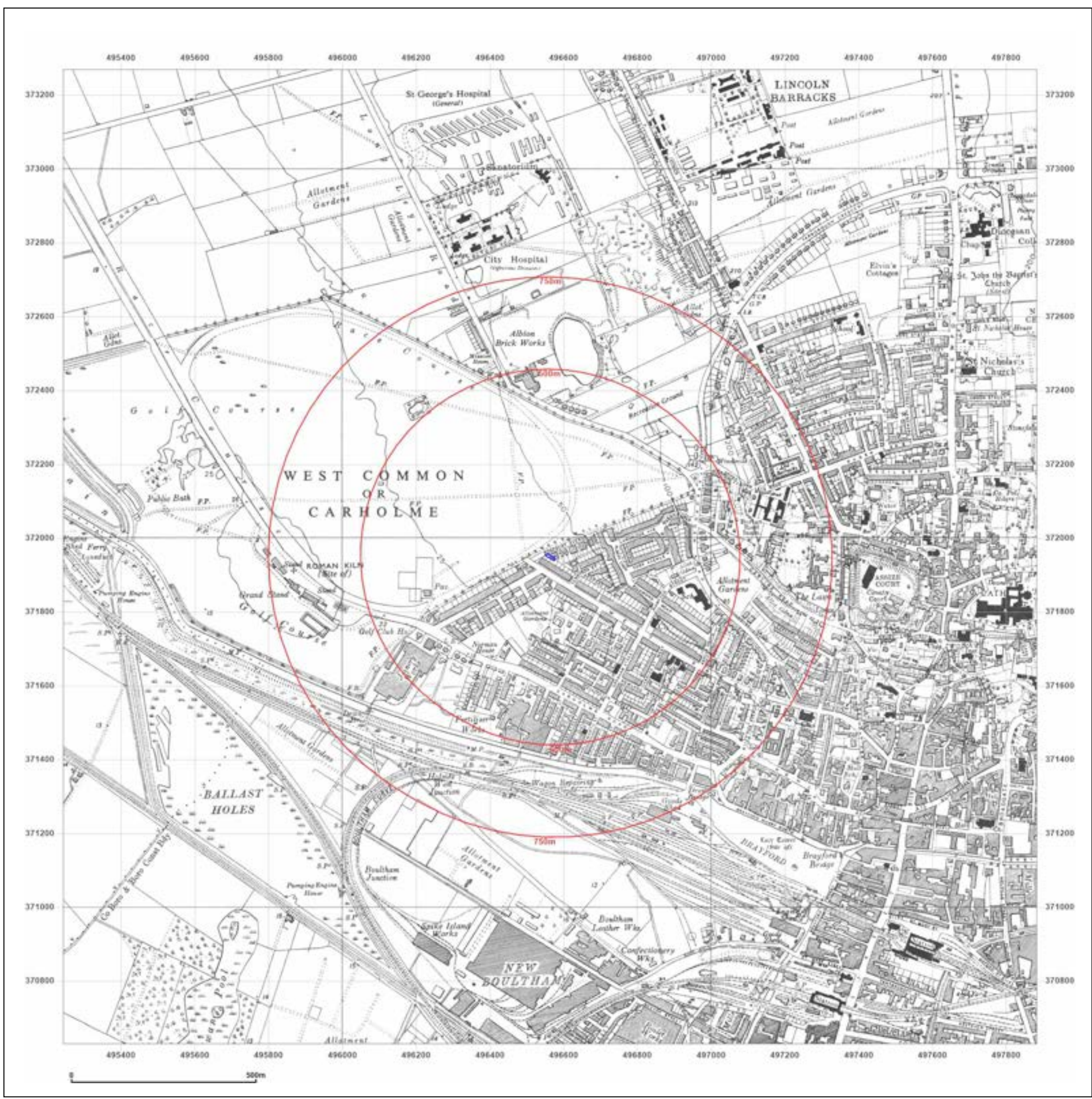


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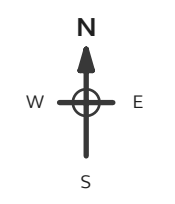
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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: Provisional

Map date: 1966

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1965
Edition N/A
Copyright 1956
Levelled N/A

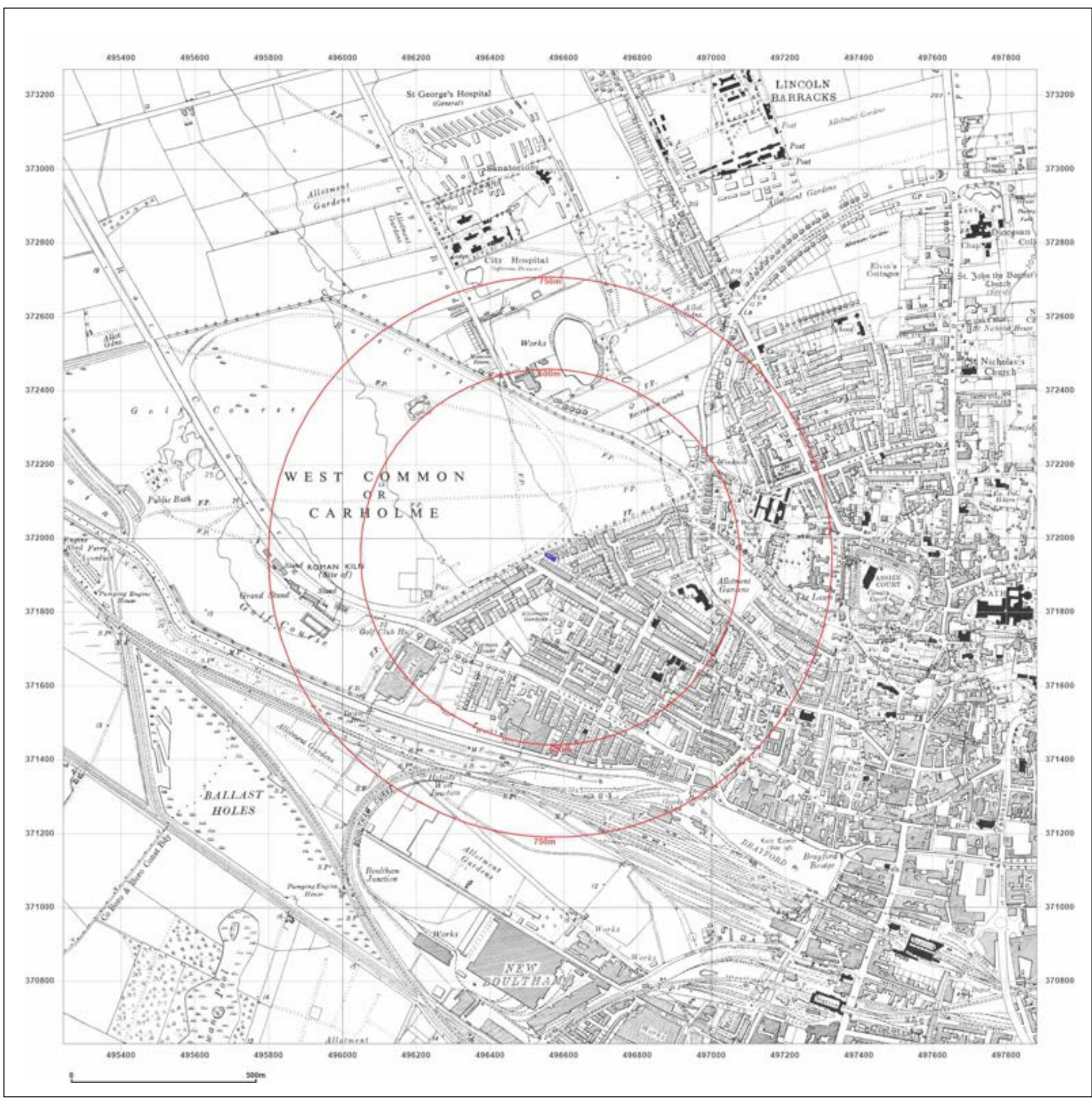


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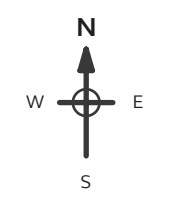
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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: Provisional

Map date: 1973

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Surveyed N/A
Revised 1973
Edition N/A
Copyright 1956
Levelled N/A

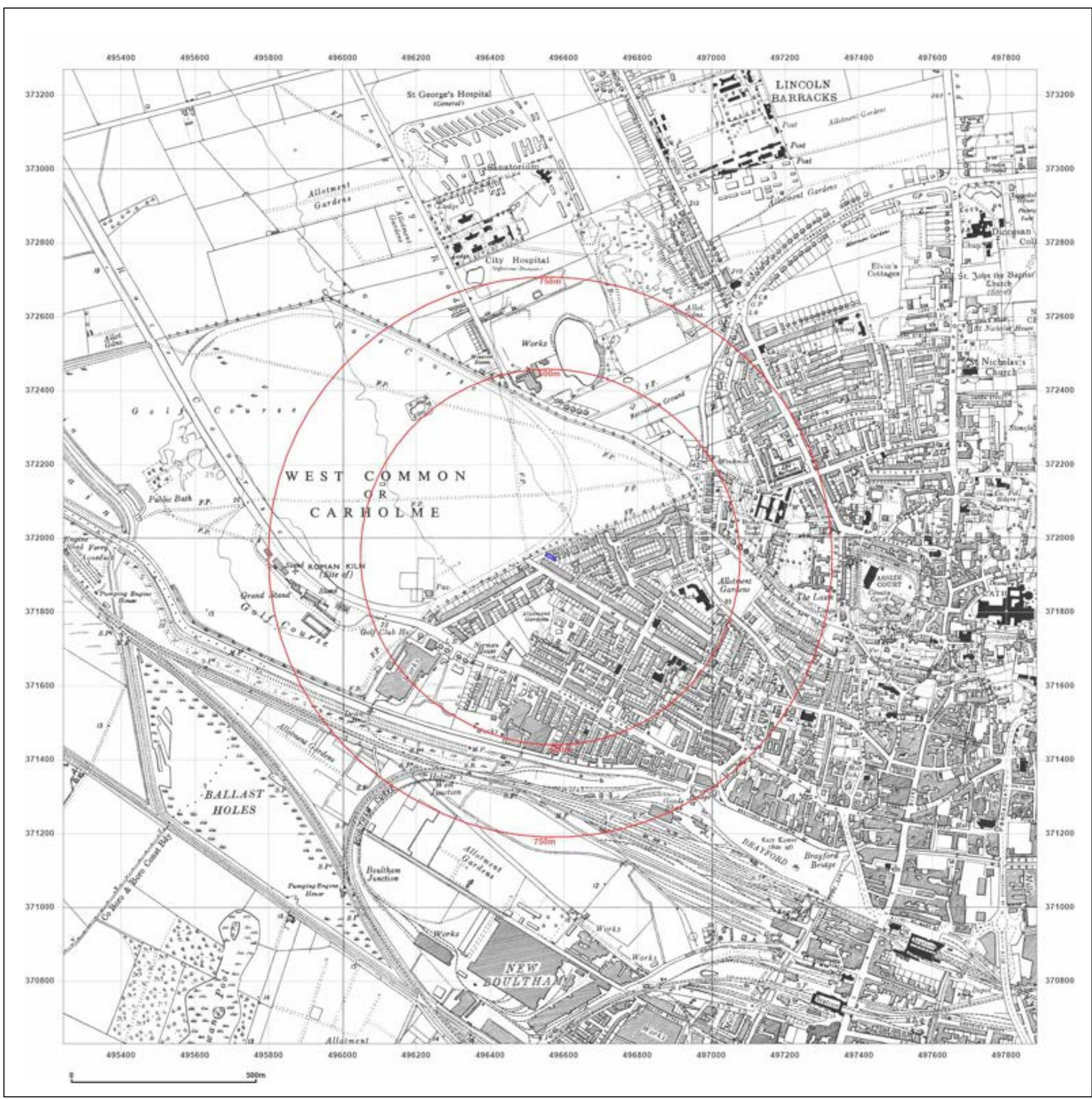


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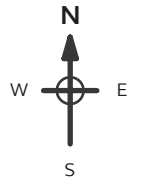
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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: National Grid

Map date: 1974

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1973
Revised 1974
Edition N/A
Copyright N/A
Levelled N/A

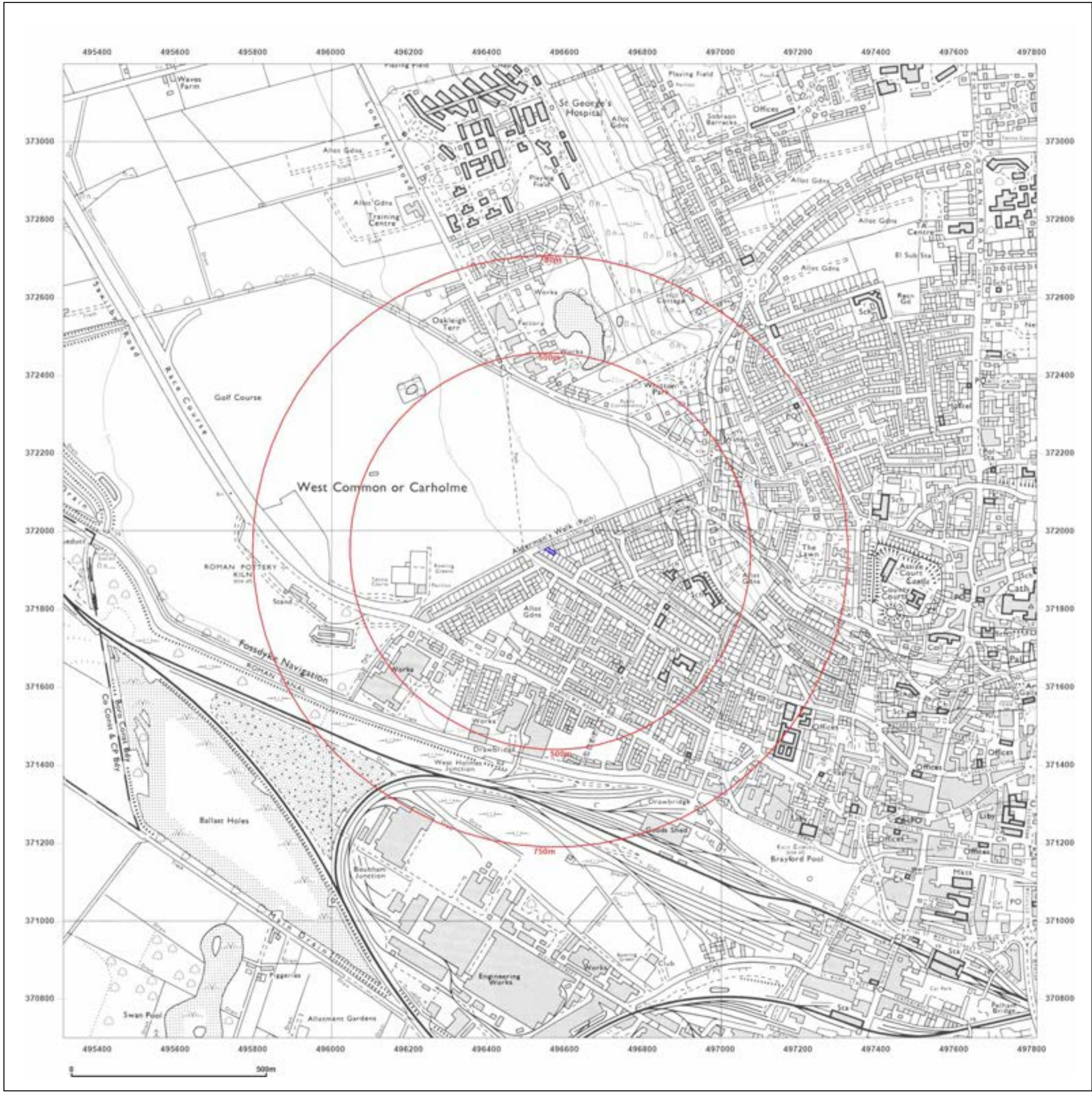


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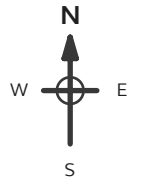
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Client Ref: Garage_Rosebery_Avenue_Lincoln
Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: National Grid
Map date: 1987
Scale: 1:10,000
Printed at: 1:10,000



Surveyed 1987
 Revised 1987
 Edition N/A
 Copyright N/A
 Levelled N/A

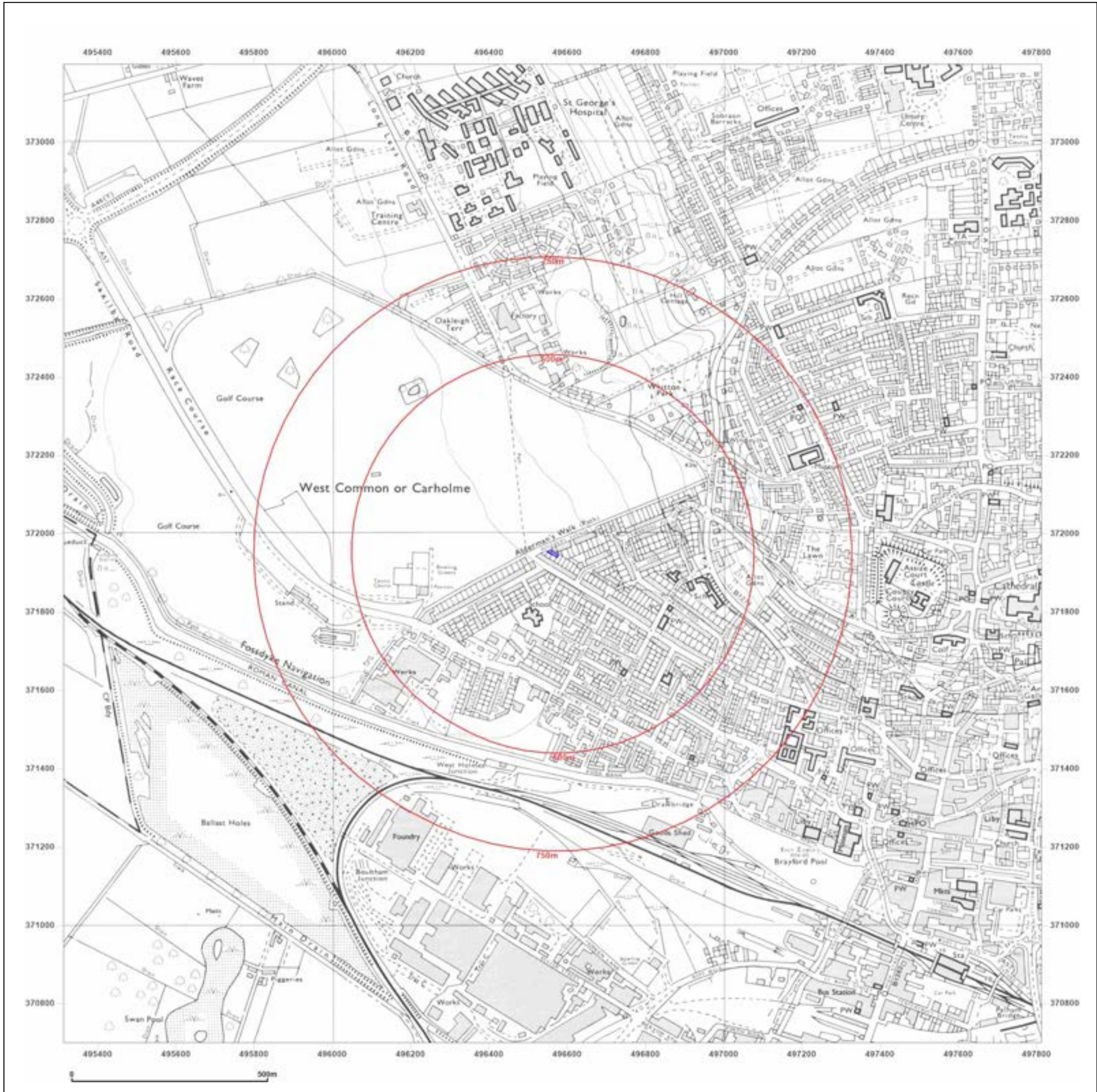
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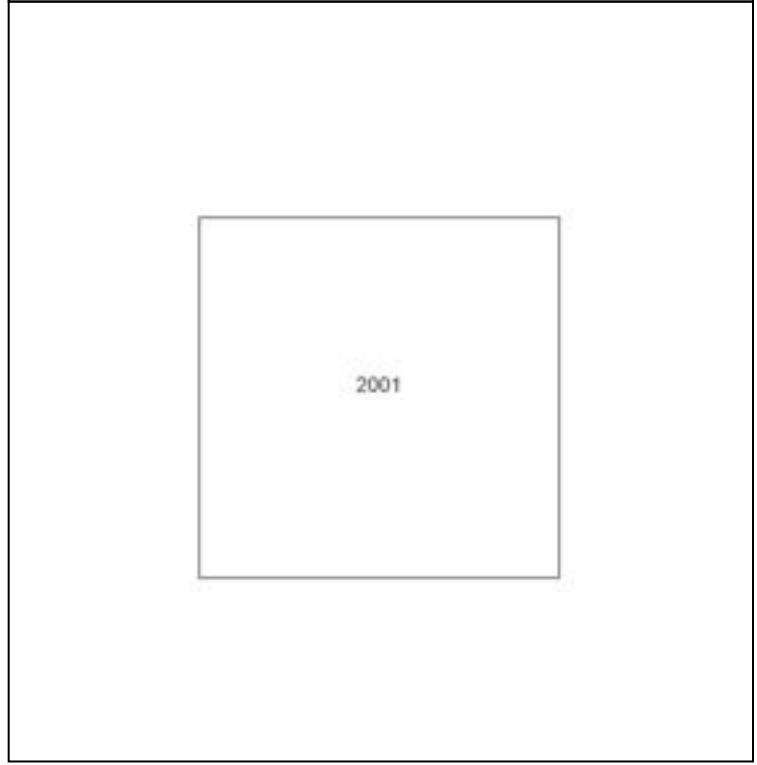
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Grid Ref: 496562, 371949

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

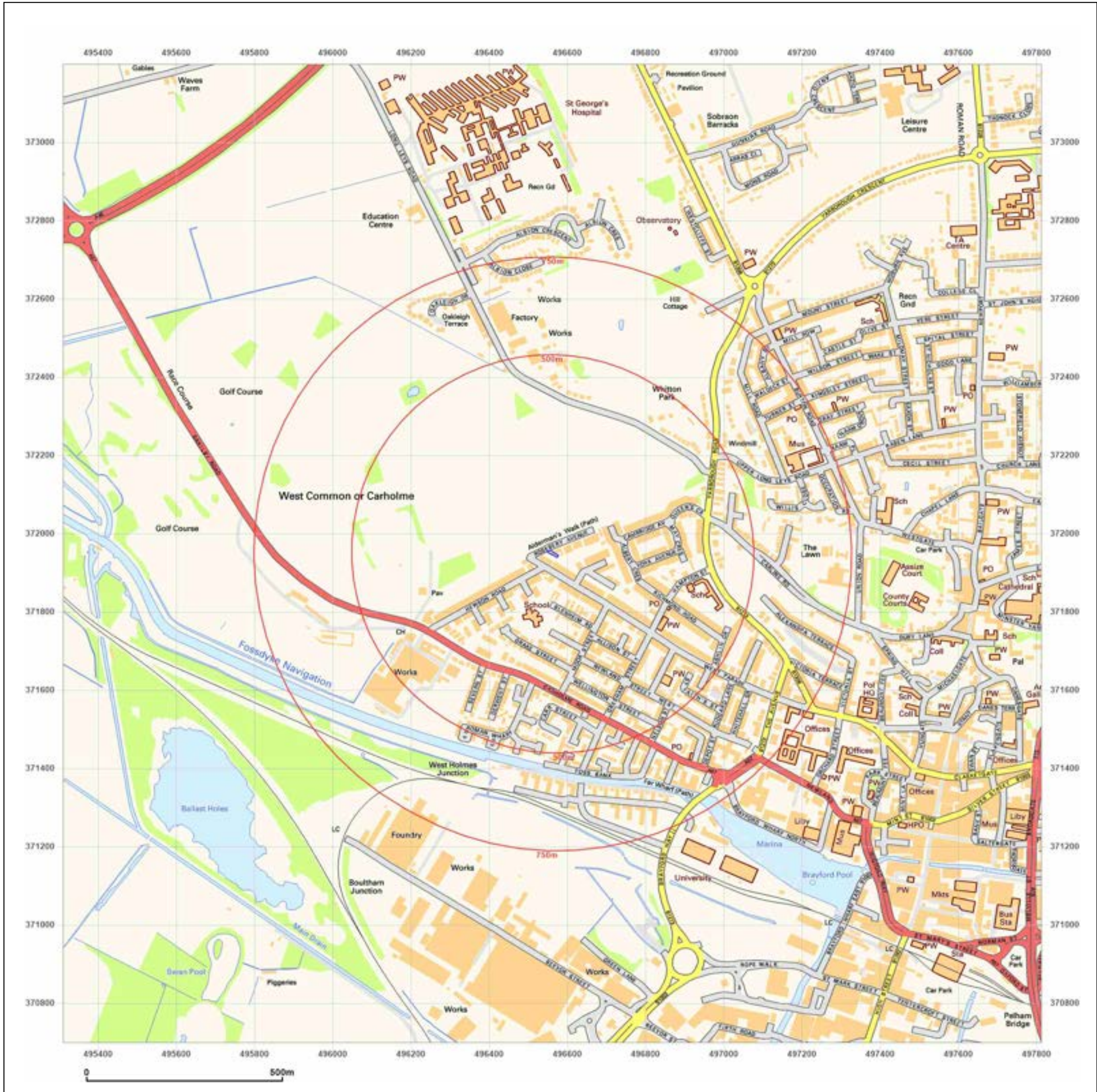


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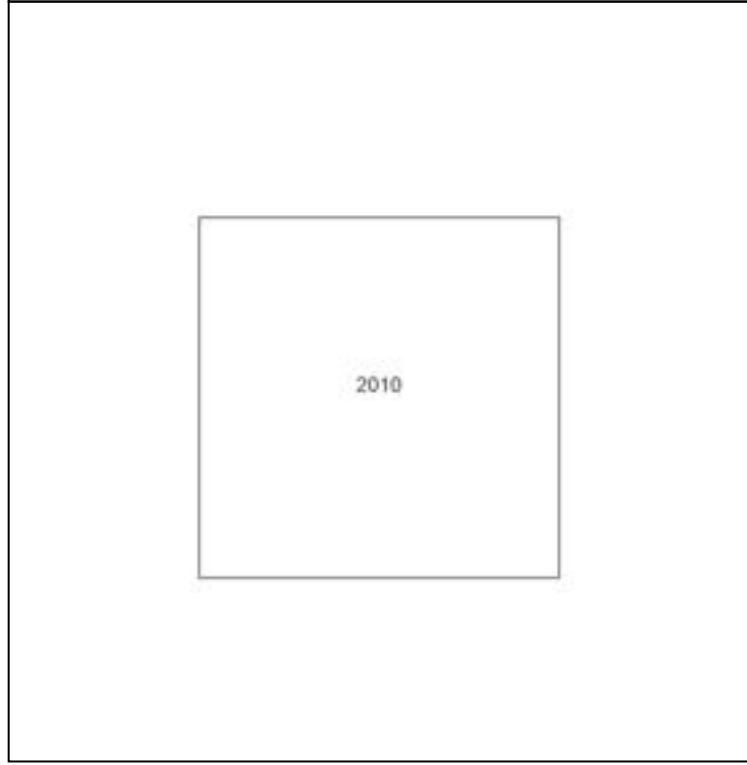
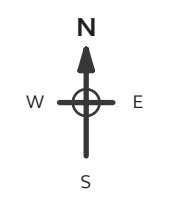
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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

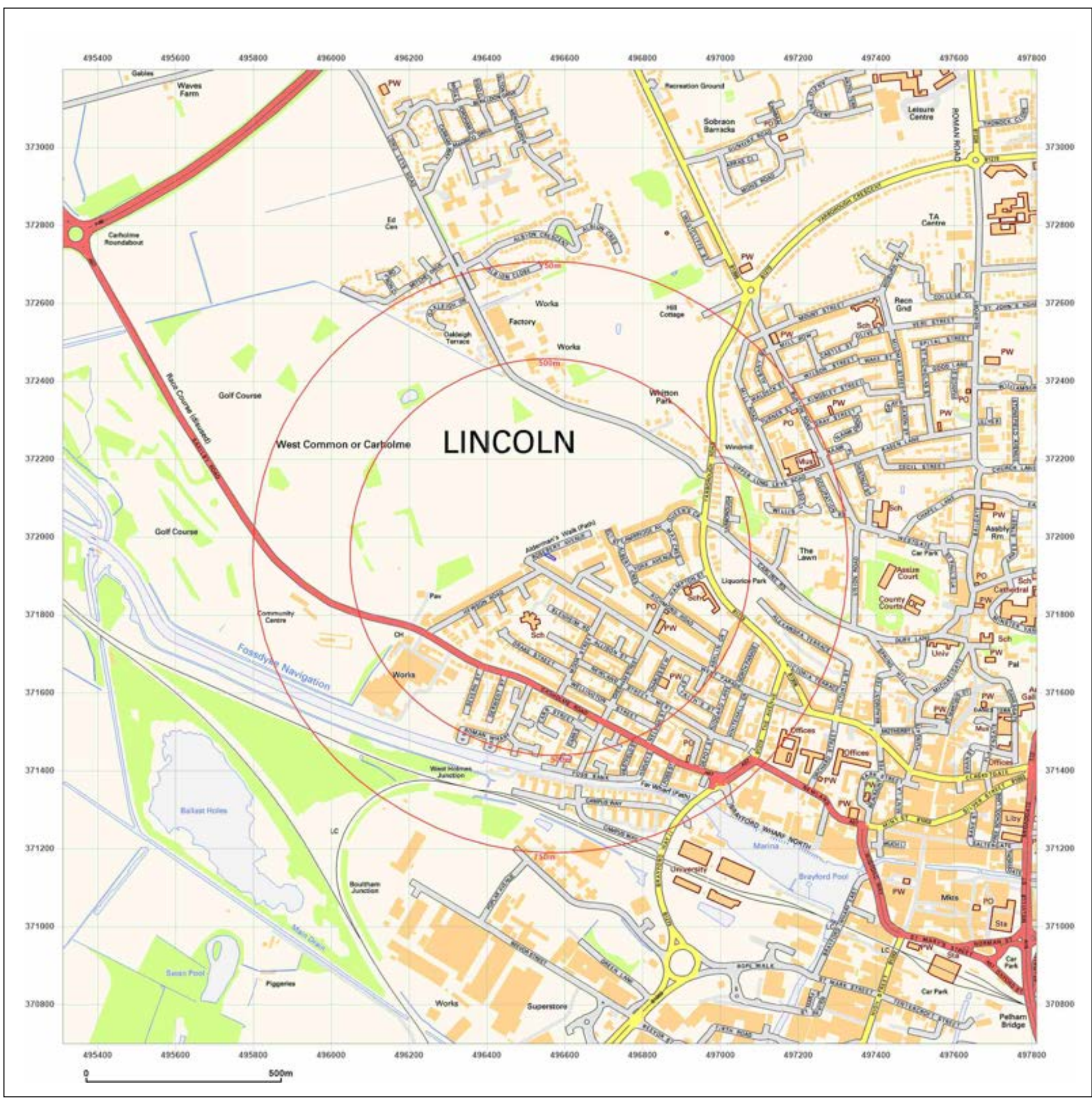


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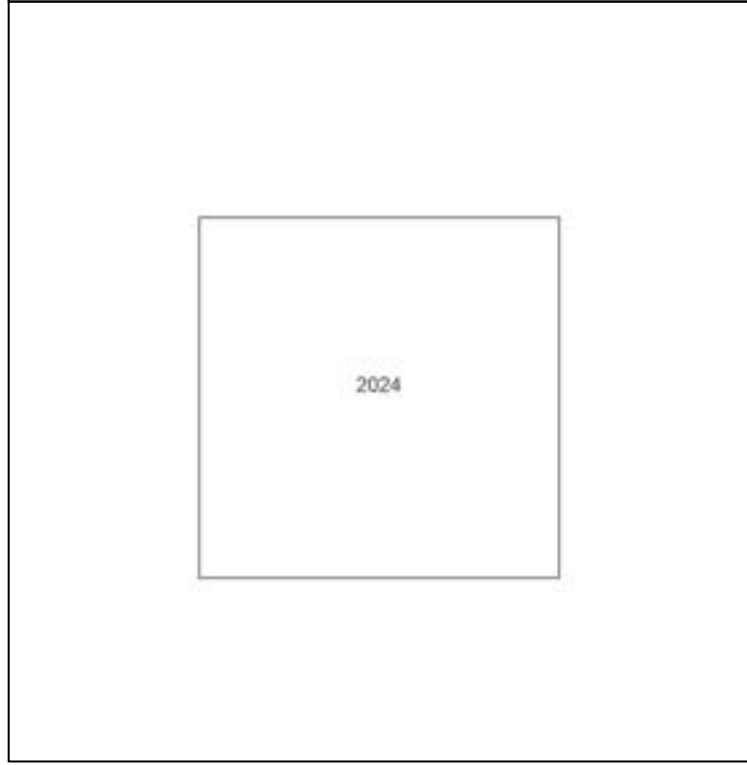
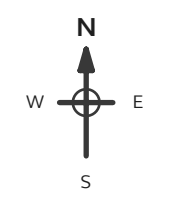
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Report Ref: GS-52M-XTX-HTK-K83
Grid Ref: 496562, 371949

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000



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