



Preliminary Geo-Environmental Risk Assessment

Bedhampton Waterworks, PO9 3HB

Energy 101

SHF.3055.001.GE.R.001.B



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Preliminary Geo-Environmental Risk Assessment Report

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1.0 INTRODUCTION

1.1 Background

- 1.1.1 Enzygo Limited [Enzygo] was commissioned by E101 Hub 4 Ltd[the Client] to prepare a Preliminary Geo-Environmental Risk Assessment [PRA] for a site proposed for development, located at the land off Meyrick Road, Havant, Hampshire.

1.2 Proposed Development

- 1.2.1 The proposal is for a 150MWh battery energy storage system, with associated Distribution Network Operators (DNO) compound, power stations, battery stations, and acoustic fencing on the 1.04-hectare (ha) Site. A layout of the proposed development is shown on the DACI Utilities Engineering Consultancy 'General Arrangement Plan' is included in Appendix 1.

1.3 Information Sources

- 1.3.1 The recommendations made in this report are based on information in the following sources:
- Groundsure; 'Insight data', March 2024, Appendix 3;
 - Groundsure; 'large- and small-scale historical maps', March 2024, Appendix 3;

1.4 Limitations

- 1.4.1 Site specific information from the information sources was used in the compilation of this report. Enzygo can accept no liability for the accuracy of information provided by others.

1.5 Objectives

- 1.5.1 The objectives of this report are to:
- Carry out a review of historical plans, geology, mining, hydrogeology and site sensitivity information;
 - Develop a preliminary conceptual site model using the source-pathway-receptor framework and assess the implications of any potentially significant geo-environmental risks, liabilities and development constraints associated with the site in relation to the future use and to off-site receptors; and
 - Provide preliminary recommendations on environmental risk, potential remedial options and an initial assessment.

2.0 SITE SETTING

Table 2.0 Site Description

Item	Description
Site Address	Land west of Meyrick Road, Havant (nearest Post Code PO9 3HB)
National Grid Reference	SU 705 063
Site Area (Hectares)	1.04 ha

2.1 Site Description

- 2.1.1 It is noted that the site comprises large stockpiles of suspected Made Ground, the site is generally flat with the exception of the stockpiles. There is a temporary welfare cabin in the centre of the site, it is assumed that this is part of the wider Portsmouth Water Bedhampton Water Treatment Works (WTW).
- 2.1.2 Vehicle access is currently from Meyrick Road to the southeast of the Site.
- 2.1.3 There is no evidence of any significant contamination on the site.
- 2.1.4 Photos from the walkover are included within Appendix 2.

2.2 Surrounding Area

- 2.2.1 Land uses around the site are summarised in Table 2.2:

Table 2.2 Land Use Surrounding the Area

Direction	Land Use
North	Water treatment works and trainline followed by residential
East	Industrial followed by residential
South	Hermitage Stream and agricultural followed by the A27 and commercial and industrial
West	Trainline and Agricultural followed by residential

3.0 SITE HISTORY

3.1 Historical Development

3.1.1 A review of the historical Ordnance Survey maps and google earth digital maps, presented in Appendix 3, was used to ascertain the site history and that of the surrounding area (within 250m), which is summarised in the table below.

Table 3.1 Historical Development

Historical Development		
Map Edition	On-Site	Off-Site
1866, 1868, 1869.	Greenfield with associated hedgerows and trees, there is a water course intersecting the middle traversing east to west. There is a sluice coming off the centre of the water course towards the south of the site.	Bedhampton Villa is approx. 10m southwest of site, mill dam is approx. 50m west of site, Bedhampton spring is adjacent east of site, South coast railway is approx. 10m north of the site, Upper mill is approx. 60m west of site, Bidbury spring is approx. 60m north of site, St Chads well is approx. 100m north of site, Old poorhouse is approx. 100m east of site, St. Thomas's church (Rectory) is approx. 250m northeast of site, Bedhampton mill is approx. 250m southeast of site, Bedhampton residential area is approx. 250m north of the site, Blue hole water course is approx. 100m east of site, Bidbury Lane runs from approx. 250m north of the site to adjacent north of the site.
1896, 1897, 1898, 1907, 1909, 1914.	A well is present in the northeast section of the site.	Borough of Portsmouth water works Co and associated weirs and wells are approx. 10m east of site, brickfield approx. 100m east of site, Brockhampton Nurseries approx. 250m east of site, Bedhampton mill and upper mill are both now disused, Meyrick road approx. 250m east of site, Methodist chapel approx. 250m northeast of site, School approx. 250m north of site, Palk road approx. 200m northeast of site.
1932, 1939, 1942, 1951, 1953, 1959.	No significant change.	Pumping station approx. 10m west of site, Hermitage stream runs adjacent south of the site, allotment gardens approx. 200m northeast of site, drains approx. 110m northeast of site, Jubilee footpath runs adjacent south of the site, recreational grounds approx. 100m west of site.
1961, 1963, 1966, 1973, 1978, 1980, 1991, 1993, 1995, 2001, 2003.	Watercourse is now labelled as a reservoir. (Ariel imagery indicates the reservoirs were not present on-site as early as 1999)	Bedhampton station approx. 250m northeast of site, residential area of Bedhampton has been developed now approx. 200m northeast of site, development of the water works adjacent east now has a pipe store approx. 100m east of site, development of the residential area approx. 200m east of the site, development of the A27 approx. 250m south of site.
2010, 2024.	The historical mapping indicates the reservoir is no longer present on site.	No significant change.

3.1.2 Based upon the identified historical land usages, there has been a watercourse and reservoir located on site and there has been a water works located adjacent east and west of the site. Potential contaminative and geotechnical risks are anticipated to be 'low to moderate', however, these risks can be better understood through adequate Ground Investigation [GI].

4.0 GEO-ENVIRONMENTAL SETTING

4.1 Superficial and Bedrock geology

4.1.1 The site is indicated to be underlain by the geological sequence summarised in the table below.

Table 4.1 Geological Sequence

Geological Unit	Type	Descriptions	Aquifer Type
Superficial	Alluvium	Clay, Silt, Sand and Gravel	Secondary A
	River Terrace Deposits	Clay, Silt, Sand and Gravel	Secondary A
Bedrock	Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (undifferentiated) - Chalk	Chalk	Principal

4.1.2 There are two records of Made Ground within 500m of the site. The nearest record is located 387m south of the site for an artificial deposit.

4.1.3 There are no records of landslips within 500m of the site.

4.1.4 There is one record for a fault or linear feature within 500m of the site. This record is located 332m south for a fold axis.

4.1.5 There are 19no. BGS borehole records within 250m of the site. The nearest accessible BGS borehole records confirm the published geology.

4.2 Hydrogeology

4.2.1 The permeability of the superficial deposits are recorded as very low to high with an intergranular flow type.

4.2.2 The permeability of the bedrock is recorded as very high with a fracture flow type.

4.2.3 The secondary A superficial aquifer is indicated to be 'high' vulnerability.

4.2.4 The principal bedrock aquifer is indicated to be 'high' vulnerability.

4.2.5 There is one record for a 'soluble rock risk' are located onsite. The details of the record are bullet pointed below.

- Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.

4.2.6 The site is located within Source Protection Zone 1 [SPZ].

- 4.2.7 There are three records for groundwater abstractions within 2km of the site. The nearest record is active, located 23m southwest of site for potable water supply.
- 4.2.8 There are no records for surface water abstraction records within 2km of the site.
- 4.2.9 There are three records for potable abstraction licenses within 2km of the site. The nearest record is active, located 23m southwest of site for potable water supply by Portsmouth Water Ltd.
- 4.2.10 Potential soluble rock risks have been identified from hydrogeology. However, these geotechnical risks can be better understood through adequate GI to allow for the appropriate mitigation to be undertaken if so required.

4.3 Ground Workings, Non-Coal Mining and Cavities

- 4.3.1 There are 33no. records of surface ground workings within 250m of the site. There are four records located on-site, these are for a pond, two reservoirs and a water body. Other records within 250m of site are for ponds, water bodies, an unspecified hole, cuttings and unspecified heaps.
- 4.3.2 There are no records of underground workings within 1km of the site.
- 4.3.3 There are no records of natural cavities recorded within 500m of the site.
- 4.3.4 There are no records for British Pits within 500m of the site.
- 4.3.5 There are no records of historical mineral planning areas within 500m of the site.
- 4.3.6 There are three records of non-coal mining records within 1km of site. The nearest record is located 136m northwest of site for chalk class A.
- 4.3.7 There are no records for mining cavities within 1km of the site.
- 4.3.8 There are seven records of historical incidents within 250m of the site. The nearest record is located 42m east of site for a 'unspecified hole' in 1951.
- 4.3.9 No new significant risks have been identified from ground workings, non-coal mining and cavities.

4.4 Hydrology

- 4.4.1 There are 22no. records of water network features within 250m of the site. The nearest record is located 2m south of the site for an unnamed inland river not influenced by normal tidal action.
- 4.4.2 There are two records for Water Framework Directive [WFD] Surface water body catchments located onsite for a River named Hermitage Stream, the operational catchment is East Hampshire Rivers, the Management catchment is East Hampshire. The other record is detailed as a coastal catchment not part of a river WB catchment.
- 4.4.3 There are two records for WFD surface water bodies. The nearest record is located on-site, this record is detailed as Hermitage Stream.
- 4.4.4 There is one WFD Groundwater water bodies located onsite for South Hants Lambeth Group.

- 4.4.5 There are 35no. records of flooding from rivers and seas [RoFRas] within 50m of the site. The flood risk category on-site is detailed as not applicable, however, within 50m of the site the highest flood risk category is recorded as 'high'.
- 4.4.6 There are no records of historical flood events records within 250m of the site.
- 4.4.7 There are no records of flood defences within 250m of the site.
- 4.4.8 There are no records for flood storage areas within 250m of the site.
- 4.4.9 There is one record for flood zone 2 (fluvial/tidal models). This record is located adjacent southeast of the site.
- 4.4.10 There is one record for flood zone 3 (fluvial models). This record is located adjacent southeast of the site.
- 4.4.11 The Groundsure report indicates that the highest potential risk from surface water flooding onsite is considered a 1-in-30-year event with the highest risk of flooding between 0.1m and 0.3m.
- 4.4.12 The potential risk for groundwater flooding on site is considered high.

4.5 Radon Risk Potential

- 4.5.1 The Groundsure 'Insight data' report indicates that the site is located within an area where between 1% and 3% of properties could be affected by Radon, therefore, no radon protective measures are considered required.

4.6 Natural Hazards Finding

- 4.6.1 BGS information presented within the Groundsure 'Insight data' Report, identified the following ground risks:

Table 4.6 Natural Hazards

Hazard	Risk Designation (Groundsure)
Swelling / Shrinking Clays	Low
Running Sand	Low
Compressible Deposits	Moderate
Collapsible Deposits	Low
Landslides	Very Low
Ground Dissolution	Moderate

- 4.6.2 Based upon the above, Compressible deposits and Ground Dissolution could potentially pose a risk to the proposed development, these risks are deemed moderate. However, these geotechnical risks can be better understood through adequate GI to allow for the appropriate mitigation to be undertaken if so required.

4.7 Sensitive Land Uses

- 4.7.1 There are three records for a Site of Special Scientific Interest (SSSI) located within 2km of the site. The nearest record is located 889m south of site for Langstone Harbour. Although there are no SSSI's located on-Site, the Site is located within a SSSI impact risk zone where certain types of development require additional assessment.

- 4.7.2 There is one record of a Conservation area within 250m of the site. This record is located 66m west of site for Old Bedhampton, Havant.
- 4.7.3 There are three records of Conserved wetland sites (Ramsar Sites) within 2km of the site. The nearest record is located 889m south of site for Chichester and Langstone Harbours.
- 4.7.4 There is one record of Special Areas of Conservation (SAC) located within 2km of the site. This record is located 889m south of site for Solent Maritime.
- 4.7.5 There are five records of Special Protection Areas (SPA) located within 2km of the site. The nearest record is located 889m south of site for Chichester and Langstone Harbours.
- 4.7.6 There are two records of Local Nature Reserves (LNR) within 2km of the site. The nearest record is located 1726m southwest of the site for Farlington Marshes.
- 4.7.7 There are nine records of Designated Ancient Woodlands within 2km of the site. The nearest record is located 1133m northwest of the site for an ancient, replanted woodland.
- 4.7.8 There are four records of Nitrate Vulnerable Zones (NVZ) located within 2km of the site. One of the records is located on-site for Chichester, Langstone and Portsmouth Harbours Eutrophic NVZ (Transitional and Coastal [TraC]).
- 4.7.9 There are four records for listed buildings within 250m of the site. The nearest record is located 208m northwest of site for a grade 2 listed building Manor House Boundary Wall.
- 4.7.10 No new significant risks are identified from sensitive land uses.

4.8 Environmental Sensitivity

- 4.8.1 Overall, the site is currently considered to be of low to moderate environmental sensitivity due to the following:
- The site consists of brownfield.
 - The underlying strata are classified as Secondary A and principal aquifers.
 - The potential for flooding is considered is 'high' across the site.
 - Surface water features have been identified adjacent to the site.
- 4.8.2 The proposed end-use is for a battery energy storage facility and as such potential future sensitivity is considered low.

4.9 Industrial Land Uses

- 4.9.1 There are 34no. records for historical industrial land use located within 250m of the site. There are four records located on-site for two water works, an unspecified works and an unspecified mill. Other records within 250m of site include railway sidings, water works, disused mills nurseries, pumping stations, unspecified holes, cuttings, unspecified heaps, and railway buildings.
- 4.9.2 There are 14no. records for historical tanks located within 250m of the site. The nearest record is located 2m east of the site for an unspecified tank.

- 4.9.3 There are seven records for historical energy features located within 250m of the site. The nearest record is located 198m southeast of the site for an electricity substation. All the other records within 250m are for electricity substations.
- 4.9.4 There are five records of historical garages located within 250m of the site. The nearest record is located 216m north of the site.
- 4.9.5 There are 16no. records for recent industrial land uses located within 250m of the site. The nearest record is located 7m northeast of site for an unspecified works or factory. Other records include solar panels 79m northeast of site; distribution and haulage 148m south of site; general construction supplies 161m northeast of site; electricity substations 171m east, 199m southeast, 211m northeast and 225m southeast of the site; precision engineers 207m southeast of the site; vehicle repair, testing and servicing 207m southeast of the site, vehicle parts and accessories 207m southeast of the site; Bedhampton railway station 213m northeast of the site; marine equipment including boats and ships 217m southeast of the site; and new vehicles 245m north of site.
- 4.9.6 There is one record of a current or recent fuel stations within 250m of the site. This record is located 250m north of the site and is detailed as obsolete.
- 4.9.7 There are no records of National Grid High Voltage Underground Electricity Transmission Cables within 250m of the site.
- 4.9.8 There are no records of National Grid high pressure gas transmission pipelines within 250m of the site.
- 4.9.9 There are 21no. records for historic railway features within 250m of the site. One of these records is located on-site for railway sidings.
- 4.9.10 There are ten records for current railways within 250m of the site. The nearest record is located 10m northwest of site for The West Coastway Line.
- 4.9.11 No new risks have been identified from the historic or current industrial land uses.

4.10 Regulatory Database

4.10.1 The information in Table 4.10 below, is summarised from the commercially available environmental dataset.

Table 4.10 Regulatory Database

Environmental Permits, Incidents and Registers	0-250m	251-500m	Details
Site determined as contaminated land	0	0	Not Applicable.
Control of Major Accident Hazard (COMAH)	0	0	Not Applicable.
Regulated explosive site	0	0	Not Applicable.
Hazardous substance storage/usage	0	0	Not Applicable.
Historical licensed industrial activities (IPC)	0	3	The nearest record is located 459m south of site for incineration.
Licensed industrial activities (Part A (1))	3	1	The three nearest records are located 57m northeast for waste landfilling.
Licensed pollutant release (Part A (2)/B)	0	0	Not Applicable.
Radioactive substance Authorisations	0	0	Not Applicable.
Licensed Discharges to controlled waters	3	18	The nearest record is located 18m northeast of site for sewage discharges – sewer storm overflow – water company into a freshwater river.
Pollutant release to surface waters (Red List)	0	0	Not Applicable.
Pollutant release to public sewer	0	0	Not Applicable.
List 1 Dangerous Substance Inventory Sites	0	0	Not Applicable.
List 2 Dangerous Substance Inventory Sites	0	0	Not Applicable.
Pollution Incidents (EA/NRW)	2	8	The nearest record is located 148m south of the site. The pollutant is described as smoke: firefighting run off. There was no impact on the land, there was minor impact on the air and water.
Pollution inventory substances	0	0	Not Applicable.
Pollution inventory waste transfers	0	0	Not Applicable.
Pollution inventory radioactive waste	0	0	Not Applicable.

4.10.2 No new significant risks are identified from the regulatory database.

4.11 Landfill Sites and Waste Treatment Sites

4.11.1 There is one record for an active or recent landfills within 500m of the site. This record is located on-site and is detailed as inert landfill operated by Portsmouth Water Ltd.

4.11.2 There are no records for BGS, LA/mapping or EA/NRW historic landfills within 500m of the site.

4.11.3 There are two records for historical waste sites within 500m of the site. The nearest record is located 302m south of the site for an incinerator, dated 1987.

4.11.4 There are 29no. records for licenced waste sites within 500m of the site. The nearest record is located 28m northeast of the site for Bedhampton waterworks.

4.11.5 There are 12no. records of waste exemption within 500m of the site. The nearest record is located 178m northeast of site for use of waste to manufacture finished goods. The other records are for use of waste to manufacture finished goods, storage of waste in a secure location, screening and blending of waste, burning of waste as a fuel in a small appliance, and treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising.

4.12 Previous Reports

- 4.12.1 A separate Hydrogeological Risk Assessment has been undertaken (ref3603/Rpt1v1) which identified a low risk to groundwater resources which can be addressed using control measures during construction and operation.

5.0 PRELIMINARY ASSESSMENT

- 5.1.1 Based on the information reviewed, as summarised in this report, a Preliminary Conceptual Site Model (PCSM) for the site has been prepared to identify potential sources [of contamination], pathways and receptors for the site. The PCSM is summarised in Table 5.7.

5.2 Potential Contamination Sources

- 5.2.1 The historical data identifies that much of the site is and has always been used for commercial land use. The historical mapping shows the construction of a reservoir and associated sluices on-site, that are anticipated to be linked to the water works adjacent east and west of the site.
- 5.2.2 Localised Made Ground and potential localised contaminated soils may be encountered as part of the proposed development works. However, this is currently deemed a 'medium' risk.

5.3 Potential Sensitive receptors

- 5.3.1 The site is currently brownfield land, potential existing receptors are.
- Groundwater in the aquifers below site.
 - Hermitage Stream adjacent south of the site; and
 - Adjacent property and land users.
- 5.3.2 Potential future receptors for the site, based on commercial land use, are:
- Site workers.
 - New infrastructure buried pipes and services.
 - Future landscaping and planting (Flora).
 - Groundwater in the aquifers below site; and
 - Adjacent property and land users.

5.4 Potential contamination exposure pathways

- 5.4.1 The Environment Agency Publication 'SR3 Updated technical background to the CLEA model' indicates the potential pathways by which any on-site contaminants may affect the health of the existing and future potential human receptors at the Site:
- Inhalation of vapour; including outdoor and indoor exposure;
 - Inhalation of fugitive dust; including outdoor windblown dust and indoor dust tracked - in from outside
 - Ingestion and absorption by direct contact including hand to mouth contact, absorption, dermal contact and consumption of soil with vegetables.
- 5.4.2 In addition, potential pathways by which the on-site contaminants may affect existing and future potential receptors at the Site are:
- Migration by surface run-off; including in suspension or solution;

- Migration in solution via groundwater; including leaching in the unsaturated zone and diffusion in the saturated zone.
- Plant uptake via root systems.

5.5 Industry Profiles

5.5.1 Several Industry Profiles have been published by the Department of the Environment which gives information on the type of activities which can occur on these types of sites. They are not intended as a check list against which to undertake an investigation but are a source of supplementary information only. The pre-amble to the industry profiles advises the reader that they must use professional judgement and assess sites specifically when considering the profiles. Industry profiles also include practices which are no longer followed and therefore should be omitted.

5.6 Risk Classification

5.6.1 Definitions of the risk terms used are provided in Table 5.6. Where significant geotechnical risks are identified, these are discussed within the report.

5.6.2 The risks identified will be re-evaluated after the site investigation works in accordance with good practice.

Table 5.6 Risk Classification

Risk	Description
Dismissed	The risk has been dismissed.
Negligible	No contamination risk has been identified which is likely to affect development.
Low	No significant contaminated land risks have been encountered affecting development and a low risk that remediation will be required.
Low-Moderate	There are unlikely to be significant contaminated land issues associated with the site which will adversely affect its re-development. However, minor or localised contamination may be present requiring remediation. Remediation should be possible under a discovery strategy and with a call out service.
Moderate	Some potential contaminated land risks have been encountered or identified which may affect re- development. The risks identified are unlikely to affect the entire site or preclude development. Remediation is considered feasible as part of the development process and no further investigation is considered necessary.
Moderate-High	Some potentially significant contaminated land risks have been identified at the property that requires remediation. It is recommended that a separate remedial methodology is prepared supported by a site-specific risk assessment
High	Significant potential contaminated land risks have been identified and remediation is required supported by further intrusive ground investigation, risk assessment and remedial design.

5.7 Preliminary Conceptual Model

5.7.1 Based on the information obtained the following Preliminary Conceptual Model has been prepared, below:

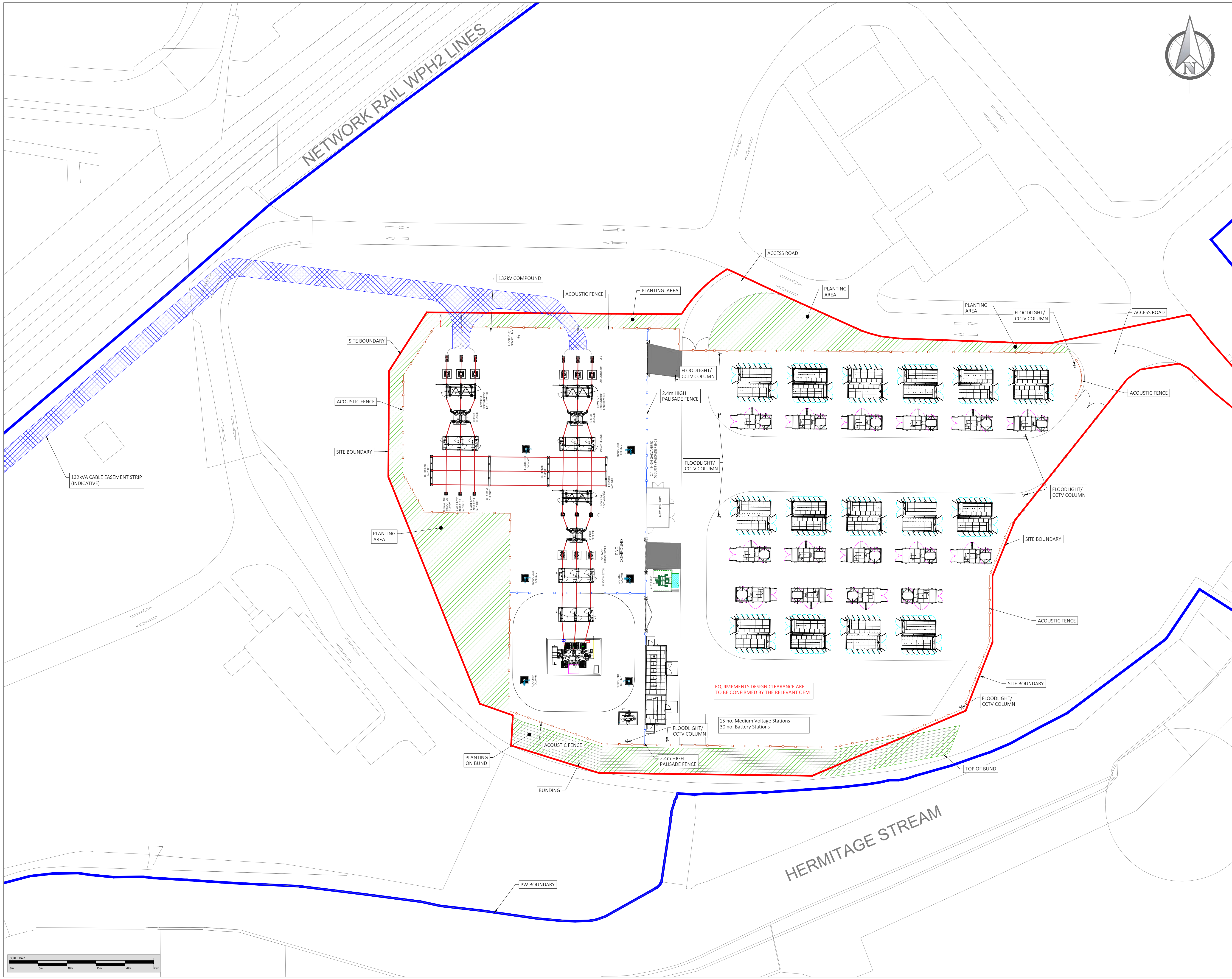
Table 5.7 Preliminary Conceptual Model

Source contaminants	Location	Exposure Pathway	Potential Receptor	Risk/ Probability of Exposure	Details
Human Health					
Asbestos, metals and hydrocarbons from Made Ground	Unforeseen Contamination	Ingestion dermal and inhalation	Construction Workers	Low	The historic land use (historic railway siding and inert landfill) and reservoir located on-site may pose potential risks depending on the material used for backfilling. Any potential contamination is likely to be localised. The site can be considered low risk due to the nature of the proposed development, as effectively there will be no ‘end users’. Standard construction PPE should address risk under CDM 2015 Regulations. Discovery Strategy during construction
			Site users		
Asbestos, metals and hydrocarbons from Made Ground	On-site sources	Ingestion dermal and inhalation	Construction Workers	Low	The historic land use (historic railway siding and inert landfill) and reservoir located on-site may pose potential risks depending on the material used for backfilling. Any potential contamination is likely to be localised. The site can be considered low risk due to the nature of the proposed development, as effectively there will be no ‘end users’. Standard construction PPE will address risk under CDM 2015 Regulations.
			Site users		
Hydrocarbon and metals	Migration from off-site sources	Ingestion dermal and inhalation	Construction Workers	Low	The water works and historic railway sidings located adjacent to the site may pose a potential risk. Any potential contamination is likely to be localised. The site can be considered low risk due to the nature of the proposed development, as effectively there will be no ‘end users’.
			Site users		
Ground Gas	Potentially Infilled Ground	Asphyxiant, Toxic & Explosive	Construction Workers	Low-Moderate	The historic land use (historic railway siding and inert landfill) and reservoir located on-site may pose potential risks depending on the material used for backfilling. The potential risk is deemed to be ‘low to moderate’ due to the proposed development on-site.
			Site users		
Radon	Natural Soils	Inhalation	Construction Workers	Dismissed	No radon protective measures are considered necessary.
			Site Users		
Groundwater					
Hydrocarbon and metals	Unforeseen Contamination	Vertical Migration	Groundwater	Low	The site is located within a source protection zone 1 (inner catchment to a potable water abstraction well). A separate Hydrogeological Risk Assessment identifies a low risk to groundwater resources which can be addressed using control measures during construction and operation.
Surface Water					

Source contaminants	Location	Exposure Pathway	Potential Receptor	Risk/ Probability of Exposure	Details
Hydrocarbon and metals	Unforeseen Contamination	Horizontal Migration	River Network	Low	There is a water courses identified adjacent south of the site. However, any potential contamination is likely to be localised. The development tis not likely to create any new source or pathway.
Environmental Receptors					
Onsite contaminants	Ingestion dermal and inhalation	Ecology	Dismissed	No receptor	
	Direct	Archaeology	Dismissed	No receptor	
	Direct	Geology	Dismissed	No receptor	
	Phytotoxic	Woodland	Dismissed	No receptor	
	Phytotoxic	Crops	Dismissed	No receptor	
	Ingestion dermal and inhalation	Livestock	Dismissed	No receptor	
Building Services					
Onsite contaminants	Direct.	Historic Buildings	Dismissed	No receptor	
	Direct	Proposed Buildings	Low	GI to ascertain contamination regime below site for appropriate design.	
	Permeate into pipework	Water Pipes	Low	To be checked with local water authority.	

6.0 CONCLUSIONS AND RECOMMENDATIONS

- 6.1.1 The site is considered to present a low to moderate potential contamination and geotechnical risk to both construction workers and future site users. The Site would be considered low sensitivity due to the nature of the Proposed Development, as effectively there will be no 'end users'. This assessment is based upon the historic land use (historic railway sidings and inert landfill) as well as the historic reservoir that used to be present on-site. Therefore, there is likely to be localised Made Ground encountered on-site associated with the backfilling of the reservoir, the water works adjacent east and west of the site and the historic trainline sidings adjacent to the site.
- 6.1.2 A separate Hydrogeological Risk Assessment has been undertaken (ref3603/Rpt1v1) which identified a low risk to groundwater resources which can be addressed using control measures during construction and operation.
- 6.1.3 Any unexpected contamination is anticipated to be localised and would be addressed during the development works through a discovery strategy, with source removal and off-site disposal likely to be the most appropriate remedial action, or the use of a clean capping [where appropriate].
- 6.1.4 A GI would be recommended to quantify above risks and provide design information for the proposed future development. This could be undertaken post-planning and covered by a suitably worded condition.



DESIGN HOUSE
DACI | Utilities Engineering Consultancy Limited
1 Caxton Street, Salford, Manchester, M3 5AZ

Notes:

15	-	ARRANGMENT REVISED	ZUA	23-01-25
14	-	ARRANGMENT REVISED AS PER COMMENTS	ZUA	21-10-24
13	-	RED LINE BOUNDARY AND ACOUSTIC FENCE UPDATED	ZUA	16-08-24
12	-	UPDATED TO LILO SCHEME	ZUA	27-06-24
11	-	DETAILS UPDATED	ZUA	20-05-24
10	-	DETAILS UPDATED	ZUA	13-05-24
09	-	DETAILS UPDATED	ZUA	30-04-24
08	-	DETAILS UPDATED	ZUA	23-04-24
07	-	DETAILS UPDATED	ZUA	22-04-24
06	-	- SITE BOUNDARY UPDATED - PW BOUNDARY ADDED - 132kVA EASEMENT STRIP ADDED	ZUA	05-04-24
05	-	MINOR AMENDED	ZUA	02-04-24
04	-	UPDATE TEXT AS PER COMMENT	FA	22-03-24
03	-	REVISED ARRANGEMENT	FA	21-03-24
02	-	REVISED ARRANGEMENT	FA	05-03-24
01	-	REVISED ARRANGEMENT	FA	21-02-24
00	-	FIRST DRAFT	FA	12-02-24
REV:	VO:	DESCRIPTION:	BY:	DATE:

DRAWING STATUS:
DRAFT

DRAWING FOR INFORMATION
UNLESS SIGNED!

PLANNING



ICP ENERGY 101 21 DOWNSIDE AVE, SOUTHAMPTON SO19 7BU			
SITE: BEDHAMPTON 132kV BESS MEYRICK ROAD, HAVANT PO9 3HB			
OS REFERENCE: E: 470557 N: 106315			
ICP NO: SLP_No	DACI NO: 4402	TITLE: GENERAL ARRANGEMENT PLAN	
DRAWING NO: DACI-4402-E01	REVISION: 15	SCALE AT A1: 1:300	
DATE: 23-01-25	DRAWN: ZUA	CHECKED: FA	APPROVED:

Appendix 2 - Site Photos



Photo 1: View looking south across the site.



Photo 2: View looking west across the site.

 Enzygo GeoEnvironmental Ltd Manchester 215 Ducie Street Tel: 0161 413 6444	Project Bedhampton Waterworks	Drawing Title Site Photos
	Client Energy 101	Project No. SHF.3055.001



Photo 3: View looking east across the site.



Photo 2: View of the entrance to the site.

 Enzygo GeoEnvironmental Ltd Manchester 215 Ducie Street Tel: 0161 413 6444	Project	Drawing Title
	Bedhampton Waterworks	Site Photos
	Client	Project No.
	Energy 101	SHF.3055.001

Appendix 3 - Groundsure Dataset

unspecified

Order Details

Date: 28/03/2024
Your ref: EMS_934966_1160217
Our Ref: EMS-934966_1190142

Site Details

Location: 470550 106305
Area: 1.09 ha
Authority: [Havant Borough 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 >	7	11	12	52	-
19 >	1.2 >	Historical tanks >	0	6	2	7	-
19 >	1.3 >	Historical energy features >	0	0	4	16	-
21	1.4	Historical petrol stations	0	0	0	0	-
21 >	1.5 >	Historical garages >	0	0	4	6	-
22	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
23 >	2.1 >	Historical industrial land uses >	7	13	17	62	-
27 >	2.2 >	Historical tanks >	0	12	2	10	-
28 >	2.3 >	Historical energy features >	0	0	7	31	-
30	2.4	Historical petrol stations	0	0	0	0	-
30 >	2.5 >	Historical garages >	0	0	5	8	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
32 >	3.1 >	Active or recent landfill >	1	0	0	0	-
33	3.2	Historical landfill (BGS records)	0	0	0	0	-
33	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
33	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
33 >	3.5 >	Historical waste sites >	0	0	0	2	-
34 >	3.6 >	Licensed waste sites >	0	1	5	23	-
43 >	3.7 >	Waste exemptions >	0	0	4	8	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
45 >	4.1 >	Recent industrial land uses >	0	1	15	-	-
47 >	4.2 >	Current or recent petrol stations >	0	0	1	0	-
47	4.3	Electricity cables	0	0	0	0	-
47	4.4	Gas pipelines	0	0	0	0	-
47	4.5	Sites determined as Contaminated Land	0	0	0	0	-



47	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
48	4.7	Regulated explosive sites	0	0	0	0	-
48	4.8	Hazardous substance storage/usage	0	0	0	0	-
48 >	4.9 >	Historical licensed industrial activities (IPC) >	0	0	0	3	-
49 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	3	1	-
49	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
50	4.12	Radioactive Substance Authorisations	0	0	0	0	-
50 >	4.13 >	Licensed Discharges to controlled waters >	0	1	2	18	-
53	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
53	4.15	Pollutant release to public sewer	0	0	0	0	-
53	4.16	List 1 Dangerous Substances	0	0	0	0	-
54	4.17	List 2 Dangerous Substances	0	0	0	0	-
54 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	2	8	-
55	4.19	Pollution inventory substances	0	0	0	0	-
55	4.20	Pollution inventory waste transfers	0	0	0	0	-
56	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
57 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
59 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
61 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
62 >	5.4 >	Groundwater vulnerability- soluble rock risk >	Identified (within 0m)				
62 >	5.5 >	Groundwater vulnerability- local information >	Identified (within 0m)				
63 >	5.6 >	Groundwater abstractions >	0	2	0	1	0
64	5.7	Surface water abstractions	0	0	0	0	0
65 >	5.8 >	Potable abstractions >	0	2	0	1	0
65 >	5.9 >	Source Protection Zones >	1	0	0	0	-
66 >	5.10 >	Source Protection Zones (confined aquifer) >	0	0	1	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
67 >	6.1 >	Water Network (OS MasterMap) >	0	5	17	-	-



69 >	6.2 >	Surface water features >	0	4	3	-	-
70 >	6.3 >	WFD Surface water body catchments >	2	-	-	-	-
70 >	6.4 >	WFD Surface water bodies >	1	0	1	-	-
71 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
72 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
73	7.2	Historical Flood Events	0	0	0	-	-
73	7.3	Flood Defences	0	0	0	-	-
73	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
73	7.5	Flood Storage Areas	0	0	0	-	-
74 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
75 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
76 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
78 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
79 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	3
80 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	0	3
81 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	1
81 >	10.4 >	Special Protection Areas (SPA) >	0	0	0	0	5
83	10.5	National Nature Reserves (NNR)	0	0	0	0	0
83 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	2
84 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	9
84	10.8	Biosphere Reserves	0	0	0	0	0
85	10.9	Forest Parks	0	0	0	0	0
85	10.10	Marine Conservation Zones	0	0	0	0	0
85	10.11	Green Belt	0	0	0	0	0
85	10.12	Proposed Ramsar sites	0	0	0	0	0



85	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
86	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
86	10.15	Nitrate Sensitive Areas	0	0	0	0	0
86 >	10.16 >	Nitrate Vulnerable Zones >	1	0	0	1	2
87 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
88 >	10.18 >	SSSI Units >	0	0	0	0	6
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
92	11.1	World Heritage Sites	0	0	0	-	-
93	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
93	11.3	National Parks	0	0	0	-	-
93 >	11.4 >	Listed Buildings >	0	0	4	-	-
94 >	11.5 >	Conservation Areas >	0	0	1	-	-
94	11.6	Scheduled Ancient Monuments	0	0	0	-	-
94	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	12.1 >	Agricultural Land Classification >	Grade 1 (within 250m)				
96	12.2	Open Access Land	0	0	0	-	-
96	12.3	Tree Felling Licences	0	0	0	-	-
96	12.4	Environmental Stewardship Schemes	0	0	0	-	-
96	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
97 >	13.1 >	Priority Habitat Inventory >	2	11	10	-	-
98	13.2	Habitat Networks	0	0	0	-	-
99	13.3	Open Mosaic Habitat	0	0	0	-	-
99	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
100 >	14.1 >	10k Availability >	Identified (within 500m)				
101 >	14.2 >	Artificial and made ground (10k) >	0	0	0	2	-
102 >	14.3 >	Superficial geology (10k) >	3	0	2	7	-

103	14.4	Landslip (10k)	0	0	0	0	-
104 >	14.5 >	Bedrock geology (10k) >	1	0	2	5	-
105 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	0	1	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
106 >	15.1 >	50k Availability >	Identified (within 500m)				
107 >	15.2 >	Artificial and made ground (50k) >	0	0	0	2	-
108	15.3	Artificial ground permeability (50k)	0	0	-	-	-
109 >	15.4 >	Superficial geology (50k) >	3	0	2	4	-
110 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
110	15.6	Landslip (50k)	0	0	0	0	-
110	15.7	Landslip permeability (50k)	None (within 50m)				
111 >	15.8 >	Bedrock geology (50k) >	1	0	2	3	-
112 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
112 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	0	1	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
113 >	16.1 >	BGS Boreholes >	0	0	19	-	-
Page	Section	Natural ground subsidence >					
115 >	17.1 >	Shrink swell clays >	Low (within 50m)				
116 >	17.2 >	Running sands >	Low (within 50m)				
117 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
119 >	17.4 >	Collapsible deposits >	Low (within 50m)				
120 >	17.5 >	Landslides >	Very low (within 50m)				
121 >	17.6 >	Ground dissolution of soluble rocks >	Moderate (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
123	18.1	BritPits	0	0	0	0	-
124 >	18.2 >	Surface ground workings >	4	5	24	-	-
125	18.3	Underground workings	0	0	0	0	0
125	18.4	Underground mining extents	0	0	0	0	-
125	18.5	Historical Mineral Planning Areas	0	0	0	0	-



126 >	18.6 >	Non-coal mining >	0	0	1	2	0
126	18.7	JPB mining areas	None (within 0m)				
126	18.8	The Coal Authority non-coal mining	0	0	0	0	-
127	18.9	Researched mining	0	0	0	0	-
127	18.10	Mining record office plans	0	0	0	0	-
127	18.11	BGS mine plans	0	0	0	0	-
127	18.12	Coal mining	None (within 0m)				
127	18.13	Brine areas	None (within 0m)				
128	18.14	Gypsum areas	None (within 0m)				
128	18.15	Tin mining	None (within 0m)				
128	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
129	19.1	Natural cavities	0	0	0	0	-
130	19.2	Mining cavities	0	0	0	0	0
130	19.3	Reported recent incidents	0	0	0	0	-
130 >	19.4 >	Historical incidents >	0	1	6	0	-
131	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
132 >	20.1 >	Radon >	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
134 >	21.1 >	BGS Estimated Background Soil Chemistry >	5	0	-	-	-
134	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
134	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
135	22.1	Underground railways (London)	0	0	0	-	-
135	22.2	Underground railways (Non-London)	0	0	0	-	-
136	22.3	Railway tunnels	0	0	0	-	-
136 >	22.4 >	Historical railway and tunnel features >	1	18	2	-	-
137	22.5	Royal Mail tunnels	0	0	0	-	-



137	22.6	Historical railways	0	0	0	-	-
137 >	22.7 >	Railways >	0	6	4	-	-
138	22.8	Crossrail 1	0	0	0	0	-
138	22.9	Crossrail 2	0	0	0	0	-
138	22.10	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 20/04/2021

Site Area: 1.09ha



Recent site history - 2020 aerial photograph



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Capture Date: 05/04/2020

Site Area: 1.09ha



Recent site history - 2013 aerial photograph



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Capture Date: 20/08/2013

Site Area: 1.09ha



Recent site history - 2005 aerial photograph



Capture Date: 15/05/2005

Site Area: 1.09ha



Recent site history - 1999 aerial photograph



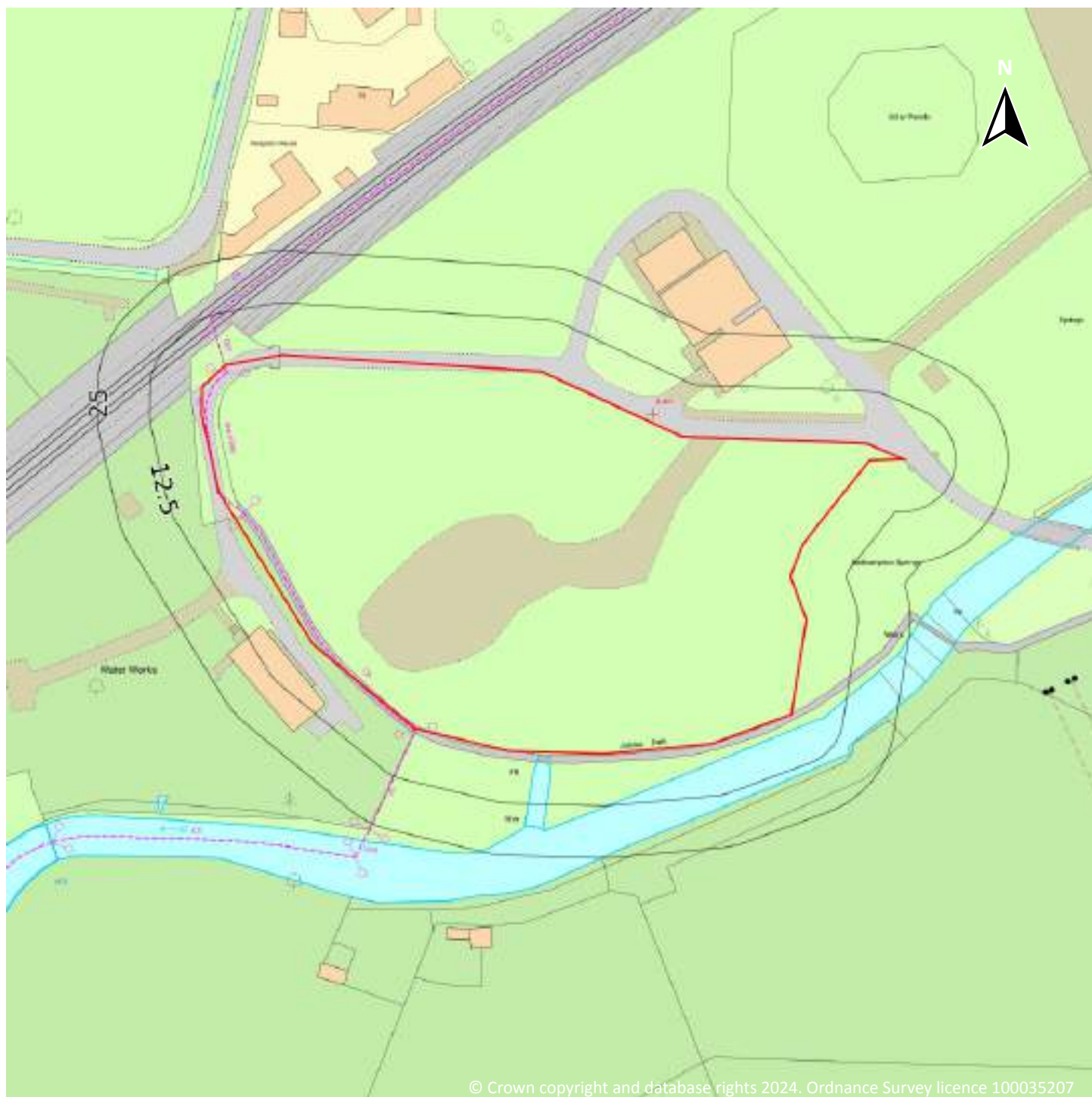
Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2024. All Rights Reserved.

Capture Date: 04/09/1999

Site Area: 1.09ha



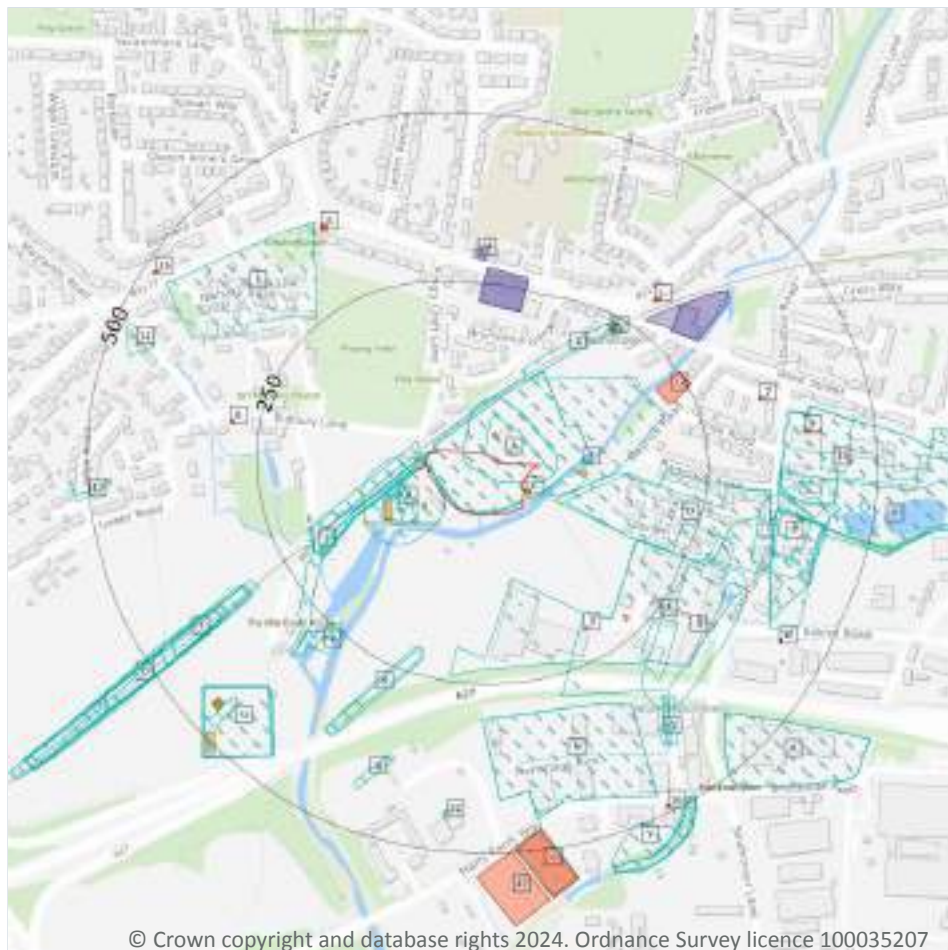
OS MasterMap site plan



Site Area: 1.09ha



1 Past land use



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

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1.1 Historical industrial land uses

Records within 500m

82

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
A	On site	Unspecified Works	1963	1860769



ID	Location	Land use	Dates present	Group ID
A	On site	Water Works	1973	1899379
A	On site	Water Works	1907	1943157
A	On site	Water Works	1931	1947029
A	On site	Water Works	1938	1958161
A	On site	Water Works	1991	1965237
B	On site	Unspecified Mill	1895	1892526
B	1m W	Railway Sidings	1931	1922820
B	1m W	Railway Sidings	1938	1943687
A	1m E	Water Works	1931	1906752
B	2m W	Railway Sidings	1907 - 1931	1956574
B	6m W	Railway Sidings	1963	1967344
1	29m W	Railway Sidings	1895 - 1898	1953479
B	40m W	Unspecified Disused Mill	1907	1872781
B	42m W	Unspecified Mill	1898	1912941
D	46m E	Nurseries	1898 - 1907	1967564
B	49m W	Pumping Station	1931	1922417
B	49m W	Corn Mill	1866	1861866
B	52m W	Pumping Station	1938	1928523
D	62m E	Nurseries	1895	1963130
E	65m E	Unspecified Hole	1931	1853527
F	97m S	Industrial Estate	1991	1866220
2	124m NE	Cuttings	1866	1882779
F	176m E	Nursery	1907	1935746
H	211m S	Unspecified Heap	1963	1888786
H	212m S	Unspecified Heap	1907 - 1938	1963773
J	222m NE	Railway Building	1963	1867023
J	223m NE	Railway Station	1991	1890002
J	223m NE	Railway Station	1973	1890365



ID	Location	Land use	Dates present	Group ID
K	244m SW	Unspecified Mill	1895 - 1898	1937656
F	253m SE	Nursery	1931	1893011
K	253m SW	Unspecified Disused Mill	1907	1872780
4	256m SE	Nursery	1931 - 1938	1913515
5	258m NW	Nursery	1991	1867628
K	281m SW	Corn Mill	1866	1861878
N	298m S	Unspecified Depot	1991	1932212
N	298m S	Unspecified Depot	1973	1945641
O	302m SW	Cuttings	1898	1900886
O	315m SW	Cuttings	1895	1955750
O	319m SW	Cuttings	1931	1908377
O	321m SW	Cuttings	1931 - 1938	1906542
P	333m E	Tannery	1866 - 1896	1952668
Q	345m SE	Watercress Beds	1931	1930128
Q	349m SE	Watercress Beds	1898	1891364
R	356m E	Water Works	1866	1900842
R	356m E	Unspecified Works	1963	1903729
P	356m E	Water Works	1907 - 1942	1935518
P	357m E	Water Works	1931	1897648
R	358m E	Water Works	1973	1920800
R	358m E	Water Works	1991	1946345
O	361m SW	Cuttings	1907	1920573
O	363m SW	Cuttings	1866	1892595
P	365m E	Tannery	1898	1887399
P	367m E	Water Works	1898	1955833
T	374m SW	Cuttings	1991	1885386
T	374m SW	Cuttings	1973	1918378
T	374m SW	Cuttings	1963	1949993



ID	Location	Land use	Dates present	Group ID
8	375m S	Unspecified Heap	1907	1870080
U	380m SW	Sewage Works	1931	1942625
U	383m SW	Unspecified Works	1963	1860759
U	384m SW	Sewage Works	1938	1913869
P	387m E	Engine House	1866	1859437
10	416m E	Unspecified Tank	1942	1859079
V	426m SE	Unspecified Works	1991	1887145
V	426m SE	Unspecified Works	1973	1940819
U	427m SW	Unspecified Tanks	1938 - 1963	1941635
R	431m E	Water Works	1896	1929475
11	433m NW	Smithy	1895	1876083
U	436m SW	Unspecified Tanks	1931	1901084
12	441m S	Unspecified Tank	1991	1859174
13	466m W	Unspecified Ground Workings	1898	1853349
X	472m S	Electric Substation	1973	1868863
14	475m SW	Cuttings	1963	1938969
O	475m SW	Cuttings	1991	1928403
O	475m SW	Cuttings	1973	1956826
R	477m E	Unspecified Tank	1973	1935713
R	477m E	Unspecified Tank	1991	1950542
R	477m E	Unspecified Tank	1963	1951962
Y	492m SE	Old Mill Pond	1931 - 1938	1918827
Y	493m SE	Mill Pond	1898	1931557
Y	494m SE	Mill Pond	1895	1922955
Y	494m SE	Mill Pond	1907 - 1931	1924719

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

15

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
C	2m E	Unspecified Tank	1953 - 1973	322142
C	3m E	Unspecified Tank	1993	326784
B	5m W	Unspecified Tank	1939	308214
B	13m W	Unspecified Tank	1939	308215
B	26m SW	Unspecified Tank	1939 - 1951	326412
A	29m NE	Unspecified Tank	1939 - 1951	325095
E	60m E	Unspecified Tank	1939	308212
B	70m W	Unspecified Tank	1939	308216
K	282m SW	Unspecified Tank	1909	308222
P	389m E	Unspecified Tank	1989 - 1997	316888
9	394m E	Tanks	1952	311362
U	445m SW	Tanks	1939	311354
U	447m SW	Disused Tanks	1968 - 1993	313851
U	447m SW	Disused Tanks	1987	320596
U	486m SW	Tanks	1939	311355

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

20

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
3	198m SE	Electricity Substation	1993	191124
G	207m NE	Electricity Substation	1987	210639
F	219m SE	Electricity Substation	1987 - 1993	203722
G	246m NE	Electricity Substation	1969 - 1993	211387
6	287m W	Electricity Substation	1973 - 1993	207960
L	298m NE	Electricity Substation	1973 - 1991	208688
7	340m E	Electricity Substation	1969 - 1993	210275
S	362m NW	Electricity Substation	1973 - 1995	209597
S	362m NW	Electricity Substation	1951 - 1953	205295
S	364m NW	Gas Governor	1995	191961
W	428m SE	Electricity Substation	1969 - 1987	211345
W	447m SE	Electricity Substation	1973	194567
W	447m SE	Electricity Substation	1969	194642
W	447m SE	Electricity Substation	1989	192858
W	447m SE	Electricity Substation	1997	192637
X	469m S	Electricity Substation	1968 - 1987	201071
X	470m S	Electricity Substation	1993	198183
15	479m NW	Electricity Substation	1973 - 1995	197675
16	487m SE	Electricity Substation	1987 - 1993	198971
17	499m S	Electricity Substation	1968 - 1987	205570

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m**0**

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'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m**10**

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
I	216m N	Garage	1991	61700
I	216m N	Garage	1973	62988
I	216m N	Garage	1959 - 1963	65319
I	217m N	Garage	1960	63094
L	269m NE	Garage	1991	62480
L	280m NE	Garage	1959	63017
L	280m NE	Garage	1963 - 1973	65249
L	281m NE	Garage	1960	61807
M	285m N	Garage	1959 - 1963	64294
M	285m N	Garage	1960	62455

This data is sourced from Ordnance Survey / Groundsure.



1.6 Historical military land

Records within 500m

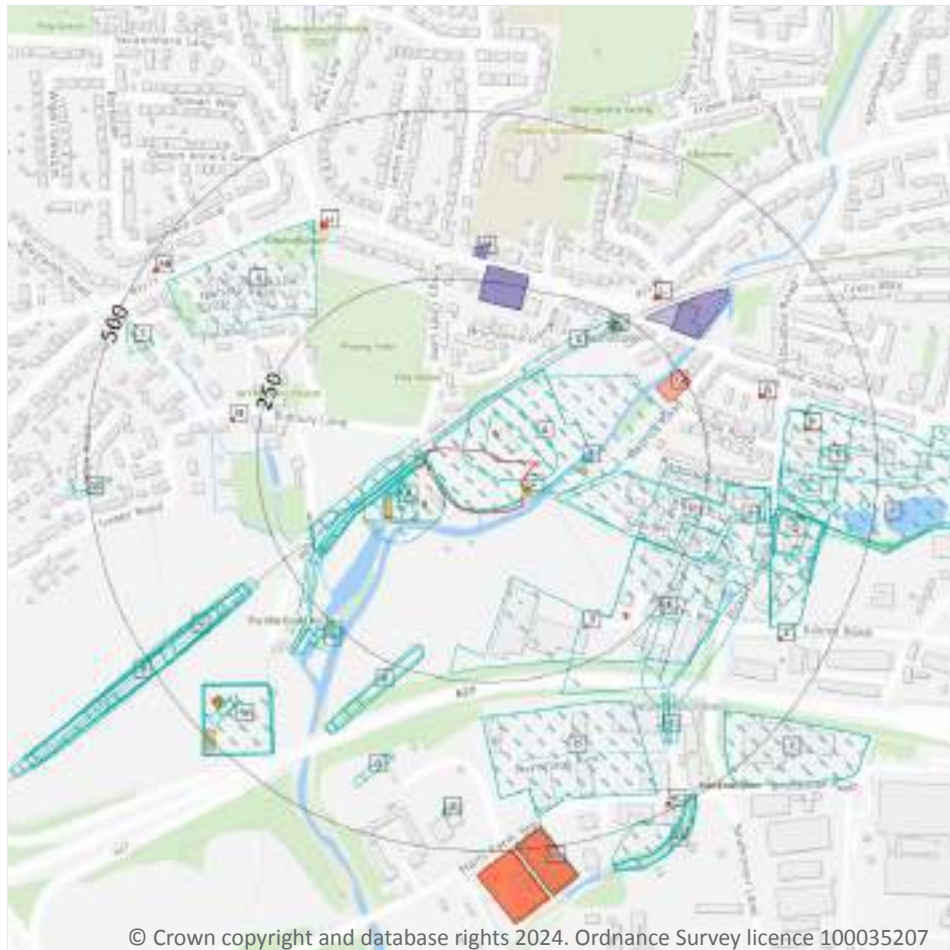
0

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



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

2.1 Historical industrial land uses

Records within 500m

99

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 23](#) >

ID	Location	Land Use	Date	Group ID
A	On site	Water Works	1938	1958161
A	On site	Water Works	1907	1943157
A	On site	Water Works	1991	1965237



ID	Location	Land Use	Date	Group ID
A	On site	Water Works	1973	1899379
A	On site	Unspecified Works	1963	1860769
A	On site	Water Works	1931	1947029
B	On site	Unspecified Mill	1895	1892526
B	1m W	Railway Sidings	1931	1922820
B	1m W	Railway Sidings	1938	1943687
A	1m E	Water Works	1931	1906752
B	2m W	Railway Sidings	1931	1956574
B	2m W	Railway Sidings	1907	1956574
B	6m W	Railway Sidings	1963	1967344
B	29m W	Railway Sidings	1895	1953479
B	34m W	Railway Sidings	1898	1953479
B	40m W	Unspecified Disused Mill	1907	1872781
B	42m W	Unspecified Mill	1898	1912941
D	46m E	Nurseries	1907	1967564
B	49m W	Pumping Station	1931	1922417
B	49m W	Corn Mill	1866	1861866
B	50m W	Pumping Station	1931	1922417
B	52m W	Pumping Station	1938	1928523
D	62m E	Nurseries	1895	1963130
E	65m E	Unspecified Hole	1931	1853527
F	97m S	Industrial Estate	1991	1866220
1	124m NE	Cuttings	1866	1882779
2	174m E	Nurseries	1898	1967564
F	176m E	Nursery	1907	1935746
H	211m S	Unspecified Heap	1963	1888786
H	212m S	Unspecified Heap	1938	1963773
H	212m S	Unspecified Heap	1931	1963773



ID	Location	Land Use	Date	Group ID
H	212m S	Unspecified Heap	1907	1963773
J	222m NE	Railway Building	1963	1867023
J	223m NE	Railway Station	1991	1890002
J	223m NE	Railway Station	1973	1890365
K	244m SW	Unspecified Mill	1895	1937656
K	250m SW	Unspecified Mill	1898	1937656
F	253m SE	Nursery	1931	1893011
K	253m SW	Unspecified Disused Mill	1907	1872780
F	256m SE	Nursery	1938	1913515
4	258m NW	Nursery	1991	1867628
F	281m SE	Nursery	1931	1913515
K	281m SW	Corn Mill	1866	1861878
O	298m S	Unspecified Depot	1991	1932212
O	298m S	Unspecified Depot	1973	1945641
P	302m SW	Cuttings	1898	1900886
P	315m SW	Cuttings	1895	1955750
P	319m SW	Cuttings	1931	1908377
P	321m SW	Cuttings	1931	1906542
P	331m SW	Cuttings	1938	1906542
Q	333m E	Tannery	1866	1952668
S	345m SE	Watercress Beds	1931	1930128
S	349m SE	Watercress Beds	1898	1891364
T	356m E	Water Works	1866	1900842
T	356m E	Unspecified Works	1963	1903729
Q	356m E	Water Works	1942	1935518
Q	356m E	Water Works	1931	1935518
Q	356m E	Water Works	1907	1935518
Q	357m E	Water Works	1931	1897648



ID	Location	Land Use	Date	Group ID
T	358m E	Water Works	1991	1946345
T	358m E	Water Works	1973	1920800
P	361m SW	Cuttings	1907	1920573
Q	362m E	Tannery	1896	1952668
P	363m SW	Cuttings	1866	1892595
Q	365m E	Tannery	1898	1887399
Q	367m E	Water Works	1898	1955833
V	374m SW	Cuttings	1991	1885386
V	374m SW	Cuttings	1973	1918378
V	374m SW	Cuttings	1963	1949993
5	375m S	Unspecified Heap	1907	1870080
W	380m SW	Sewage Works	1931	1942625
W	381m SW	Sewage Works	1931	1942625
W	383m SW	Unspecified Works	1963	1860759
W	384m SW	Sewage Works	1938	1913869
Q	387m E	Engine House	1866	1859437
X	413m E	Unspecified Works	1963	1903729
X	416m E	Unspecified Tank	1942	1859079
Y	426m SE	Unspecified Works	1991	1887145
Y	426m SE	Unspecified Works	1973	1940819
W	427m SW	Unspecified Tanks	1963	1941635
T	431m E	Water Works	1896	1929475
7	433m NW	Smithy	1895	1876083
W	436m SW	Unspecified Tanks	1931	1901084
W	438m SW	Unspecified Tanks	1938	1941635
8	441m S	Unspecified Tank	1991	1859174
9	466m W	Unspecified Ground Workings	1898	1853349
AA	472m S	Electric Substation	1973	1868863



ID	Location	Land Use	Date	Group ID
P	475m SW	Cuttings	1991	1928403
P	475m SW	Cuttings	1973	1956826
P	475m SW	Cuttings	1963	1938969
T	477m E	Unspecified Tank	1991	1950542
T	477m E	Unspecified Tank	1973	1935713
T	477m E	Unspecified Tank	1963	1951962
AD	492m SE	Old Mill Pond	1931	1918827
AD	493m SE	Mill Pond	1898	1931557
AD	494m SE	Mill Pond	1931	1924719
AD	494m SE	Mill Pond	1895	1922955
AD	494m SE	Mill Pond	1907	1924719
AD	497m SE	Old Mill Pond	1938	1918827

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

24

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 23 >](#)

ID	Location	Land Use	Date	Group ID
C	2m E	Unspecified Tank	1960	322142
C	2m E	Unspecified Tank	1953	322142
C	3m E	Unspecified Tank	1993	326784
C	3m E	Unspecified Tank	1969	322142
C	3m E	Unspecified Tank	1973	322142
C	3m E	Unspecified Tank	1959	322142
B	5m W	Unspecified Tank	1939	308214
B	13m W	Unspecified Tank	1939	308215



ID	Location	Land Use	Date	Group ID
B	26m SW	Unspecified Tank	1951	326412
B	27m SW	Unspecified Tank	1939	326412
A	29m NE	Unspecified Tank	1951	325095
A	29m NE	Unspecified Tank	1939	325095
E	60m E	Unspecified Tank	1939	308212
B	70m W	Unspecified Tank	1939	308216
K	282m SW	Unspecified Tank	1909	308222
Q	389m E	Unspecified Tank	1997	316888
Q	390m E	Unspecified Tank	1989	316888
6	394m E	Tanks	1952	311362
W	445m SW	Tanks	1939	311354
W	447m SW	Disused Tanks	1972	313851
W	447m SW	Disused Tanks	1968	313851
W	447m SW	Disused Tanks	1993	313851
W	447m SW	Disused Tanks	1987	320596
W	486m SW	Tanks	1939	311355

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

38

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 23 >](#)

ID	Location	Land Use	Date	Group ID
3	198m SE	Electricity Substation	1993	191124
G	207m NE	Electricity Substation	1987	210639
F	219m SE	Electricity Substation	1987	203722
F	222m SE	Electricity Substation	1993	203722



ID	Location	Land Use	Date	Group ID
G	246m NE	Electricity Substation	1993	211387
G	246m NE	Electricity Substation	1969	211387
G	246m NE	Electricity Substation	1973	211387
N	287m W	Electricity Substation	1973	207960
N	287m W	Electricity Substation	1993	207960
L	298m NE	Electricity Substation	1991	208688
L	298m NE	Electricity Substation	1973	208688
R	340m E	Electricity Substation	1987	210275
R	340m E	Electricity Substation	1973	210275
R	341m E	Electricity Substation	1993	210275
R	341m E	Electricity Substation	1969	210275
U	362m NW	Electricity Substation	1973	209597
U	362m NW	Electricity Substation	1953	205295
U	362m NW	Electricity Substation	1951	205295
U	364m NW	Gas Governor	1995	191961
U	365m NW	Electricity Substation	1995	209597
Z	428m SE	Electricity Substation	1987	211345
Z	429m SE	Electricity Substation	1969	211345
Z	429m SE	Electricity Substation	1973	211345
Z	447m SE	Electricity Substation	1969	194642
Z	447m SE	Electricity Substation	1973	194567
Z	447m SE	Electricity Substation	1989	192858
Z	447m SE	Electricity Substation	1997	192637
AA	469m S	Electricity Substation	1972	201071
AA	469m S	Electricity Substation	1968	201071
AA	469m S	Electricity Substation	1987	201071
AA	470m S	Electricity Substation	1993	198183
AB	479m NW	Electricity Substation	1973	197675



ID	Location	Land Use	Date	Group ID
AB	479m NW	Electricity Substation	1995	197675
AC	487m SE	Electricity Substation	1987	198971
AC	487m SE	Electricity Substation	1993	198971
AE	499m S	Electricity Substation	1972	205570
AE	499m S	Electricity Substation	1968	205570
AE	499m S	Electricity Substation	1987	205570

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0
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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'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	13
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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 23 >](#)

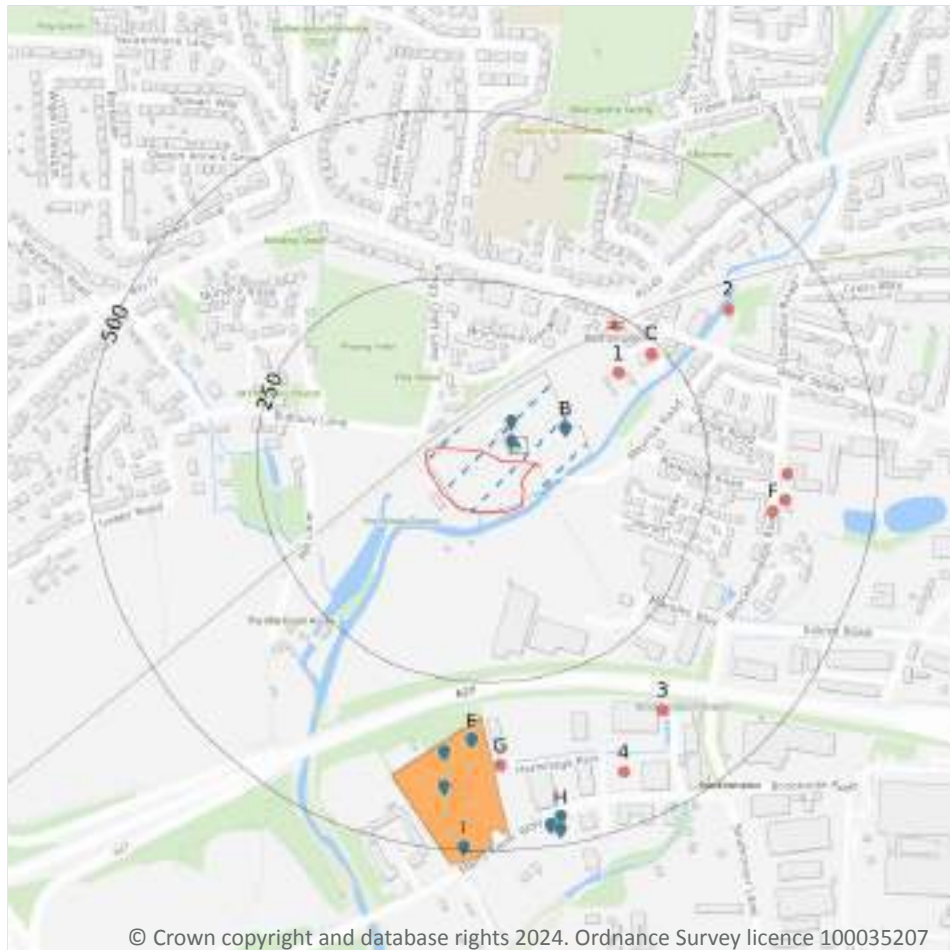
ID	Location	Land Use	Date	Group ID
I	216m N	Garage	1991	61700
I	216m N	Garage	1973	62988
I	216m N	Garage	1963	65319
I	216m N	Garage	1959	65319
I	217m N	Garage	1960	63094
L	269m NE	Garage	1991	62480
L	280m NE	Garage	1973	65249

ID	Location	Land Use	Date	Group ID
L	280m NE	Garage	1963	65249
L	280m NE	Garage	1959	63017
L	281m NE	Garage	1960	61807
M	285m N	Garage	1963	64294
M	285m N	Garage	1959	64294
M	285m N	Garage	1960	62455

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



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- Site Outline
- Search buffers in metres (m)
- Active or recent landfill
- Historical waste sites
- Licensed 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 32](#) >

ID	Location	Details	
A	On site	Operator: Portsmouth Water Ltd Site Address: Bedhampton Waterworks, Meyrick Road, Bedhampton, Hampshire, PO9 1NN	WML Number: 210123 EPR Reference: POR044 Landfill type: L05: Inert LF Status: Issued IPPC Reference: - EPR Number: EA/EPR/NP3439PN/A001

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**0**

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.

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

3.5 Historical waste sites

Records within 500m**2**

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 32 >](#)

ID	Location	Address	Further Details	Date
D	302m S	Site Address: N/A	Type of Site: Incinerator Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1987
D	303m S	Site Address: N/A	Type of Site: Incinerator Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1993



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

3.6 Licensed waste sites

Records within 500m	29
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 32 >](#)

ID	Location	Details		
A	28m NE	Site Name: Bedhampton Waterworks Site Address: Bedhampton Waterworks, Meyrick Road, Havant, Hampshire Correspondence Address: P O Box 8, West Street, Havant, Hampshire, PO9 1LG	Type of Site: Landfill taking Non-Biodegradable Wastes Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: POR008 EPR reference: - Operator: Portsmouth Water Company Ltd Waste Management licence No: 19988 Annual Tonnage: 0	Issue Date: 18/02/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	57m NE	Site Name: Bedhampton Waterworks Landfill Site Address: Bedhampton Waterworks, Meyrick Road, Havant, Hampshire, PO9 1NN Correspondence Address: P O Box 8, West Street, Havant, Hampshire, PO9 1LG	Type of Site: Inert LF Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: POR008 EPR reference: EA/EPR/NP3439SN/A001 Operator: Portsmouth Water Ltd Waste Management licence No: 19988 Annual Tonnage: 1126	Issue Date: 2/18/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC
A	57m NE	Site Name: Bedhampton Landfill Site Address: Bedhampton Waterworks, Meyrick Road, Bedhampton, Hampshire, PO9 1NN Correspondence Address: -	Type of Site: Inert LF Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 629944 EPR reference: EA/EPR/NP3439PN Operator: Portsmouth Water Limited Waste Management licence No: 210123 Annual Tonnage: 1126	Issue Date: 21/04/2005 Effective Date: 21/04/2005 Modified: 31/03/2008 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
A	57m NE	Site Name: Bedhampton Waterworks Landfill Site Address: Bedhampton Waterworks, Meyrick Road, Havant, Hampshire, PO9 1NN Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 639263 EPR reference: EA/EPR/WP3192HB Operator: Portsmouth Water Limited Waste Management licence No: 19988 Annual Tonnage: 1126	Issue Date: 18/02/1992 Effective Date: 18/02/1992 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
B	65m NE	Site Name: Bedhampton Waste Works Site Address: Bedhampton Waste Works, Meyrick Road, Havant, Hampshire, PO9 1NN Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: POR022 EPR reference: EA/EPR/BP3998HK/A001 Operator: Portsmouth Water Ltd Waste Management licence No: 10279 Annual Tonnage: 23000	Issue Date: 29/06/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	65m NE	Site Name: Bedhampton Water Works Site Address: Bedhampton Waterworks, Meyrick Road, Havant, Hampshire, PO9 1NN Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 651686 EPR reference: EA/EPR/BP3998HK Operator: Portsmouth Water Limited Waste Management licence No: 10279 Annual Tonnage: 23000	Issue Date: 29/06/2007 Effective Date: 29/06/2007 Modified: 29/06/2007 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
E	338m S	Site Name: Recycling Storage Bays Site Address: Havant Incinerator, Harts Farm Way, Havant, Hampshire Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ASS002 EPR reference: EA/EPR/WP3792HZ/S002 Operator: Associated Environmental Projects (hampshire) Ltd Waste Management licence No: 19989 Annual Tonnage: 25000	Issue Date: 21/06/1993 Effective Date: - Modified: - Surrendered Date: 26/11/2001 Expiry Date: - Cancelled Date: - Status: Surrendered
E	338m S	Site Name: Recycling Storage Bays Site Address: Havant Incinerator, Harts Farm Way, Havant, Hampshir Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ASS002 EPR reference: EA/EPR/WP3792HZ/S002 Operator: Associated Environmental Projects (Hampshire) Ltd Waste Management licence No: 19989 Annual Tonnage: 25000	Issue Date: 21/06/1993 Effective Date: - Modified: - Surrendered Date: Nov 26 2001 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
E	338m S	Site Name: Recycling Storage Bays Site Address: Harts Farm Way, Harts Farm Way, Havant, Hampshire, PO9 1HS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 629419 EPR reference: EA/EPR/WP3792HZ Operator: Associated Environmental Projects (Hampshire) Limited Waste Management licence No: 19989 Annual Tonnage: 25000	Issue Date: 21/06/1993 Effective Date: 21/06/1993 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
E	360m S	Site Name: Harts Farm Depot Site Address: Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: Poles Lane, Winchester, Otterbourne, Hampshire, SO21 1EA	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ONY032 EPR reference: - Operator: Onyx (hampshire) Ltd Waste Management licence No: 10229 Annual Tonnage: 320	Issue Date: 19/12/2002 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
E	360m S	Site Name: Harts Farm Depot Site Address: Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: Poles Lane, Winchester, Otterbourne, Hampshire, SO21 1EA	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ONY032 EPR reference: - Operator: Veolia E S Hampshire Ltd Waste Management licence No: 10229 Annual Tonnage: 32	Issue Date: 19/12/2002 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
E	360m S	Site Name: Harts Farm Depot Site Address: Harts Farm Way Depot, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HAM039 EPR reference: EA/EPR/FP3594LP/S002 Operator: Hampshire County Council Waste Management licence No: 10229 Annual Tonnage: 3200	Issue Date: 19/12/2002 Effective Date: 01/02/2010 Modified: - Surrendered Date: 23/09/2013 Expiry Date: - Cancelled Date: - Status: Surrendered
E	360m S	Site Name: Harts Farm Depot Site Address: Harts Farm Way Depot, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 640902 EPR reference: EA/EPR/FP3594LP Operator: Hampshire County Council Waste Management licence No: 10229 Annual Tonnage: 3200	Issue Date: 19/12/2002 Effective Date: 19/12/2002 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
D	409m S	Site Name: Havant Household Waste Recycling Centre Site Address: Havant H W R C, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: 75kte Non-hazardous & hazardous HWA Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HOP043 EPR reference: EA/EPR/BB3538AG/A001 Operator: Hopkins Recycling Limited Waste Management licence No: 103260 Annual Tonnage: 74999	Issue Date: 02/03/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
D	409m S	Site Name: Havant Household Waste Recycling Centre Site Address: Havant H W R C, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: 75kte Non-hazardous & hazardous HWA Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VES027 EPR reference: EA/EPR/DB3902GK/T001 Operator: Veolia E S Hampshire Ltd Waste Management licence No: 103260 Annual Tonnage: 74999	Issue Date: 02/03/2012 Effective Date: 25/03/2016 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
D	409m S	Site Name: Havant Household Waste Recycling Centre Site Address: Havant H W R C, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: 75kte Non-hazardous & hazardous HWA Site Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 635387 EPR reference: EA/EPR/DB3902GK Operator: Veolia Es Hampshire Ltd Waste Management licence No: 103260 Annual Tonnage: 74999	Issue Date: 02/03/2012 Effective Date: 02/03/2012 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
H	460m S	Site Name: Havant Waste Transfer Station Site Address: Havant Waste Transfer Station, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: UKR002 EPR reference: EA/EPR/HB3505TQ/V002 Operator: U K Remediation Ltd Waste Management licence No: 100089 Annual Tonnage: 124999	Issue Date: 17/09/2007 Effective Date: 19/09/2019 Modified: 25/11/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
H	460m S	Site Name: Havant Waste Transfer Station Site Address: Havant Waste Transfer Station, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KEL332 EPR reference: EA/EPR/DB3809LB/T001 Operator: Keltbray Environmental Limited Waste Management licence No: 100089 Annual Tonnage: 124999	Issue Date: 17/09/2007 Effective Date: 15/04/2016 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
H	460m S	Site Name: Havant Waste Transfer Station Site Address: Havant Waste Transfer Station, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KEL332 EPR reference: EA/EPR/DB3809LB/T001 Operator: Keltbray Environmental Limited Waste Management licence No: 100089 Annual Tonnage: 124999	Issue Date: 17/09/2007 Effective Date: 15/04/2016 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred



ID	Location	Details		
H	470m S	Site Name: Harts Farm Way Transfer Station Site Address: Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: Charity Farm, 127, Wickham Road, Fareham, Hampshire, PO17 5BP	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DUD004 EPR reference: - Operator: T J Waste & Recycling Ltd. Waste Management licence No: 10221 Annual Tonnage: 74884	Issue Date: 23/11/2000 Effective Date: 11/01/2008 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
H	470m S	Site Name: Harts Farm Way Transfer Station Site Address: Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: Unit 6 Rudforf Industrial Estate, Ford, West Sussex, BN18 0BD	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DUD001 EPR reference: - Operator: Dudman Waste & Environmental Ltd Waste Management licence No: 10221 Annual Tonnage: 74884	Issue Date: 23/11/2000 Effective Date: 02/07/2002 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
H	470m S	Site Name: Harts Farm Way Transfer Station Site Address: Harts Farm Way Transfer Station, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DUD004 EPR reference: EA/EPR/DP3095HH/T003 Operator: T J Waste & Recycling Ltd Waste Management licence No: 10221 Annual Tonnage: 74884	Issue Date: 23/11/2000 Effective Date: 11/01/2008 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred



ID	Location	Details		
H	470m S	Site Name: Havant Waste Transfer Facility Site Address: Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: The Pavilion, 2, Sherbourne Road, South Farnborough, Farnborough, Hampshire, GU14 6JT	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TJW005 EPR reference: - Operator: T J Waste And Recycling Limited Waste Management licence No: 100089 Annual Tonnage: 0	Issue Date: 17/09/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
H	470m S	Site Name: Havant Waste Transfer Facility Site Address: Havant Waste Transfer Station, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TJW005 EPR reference: EA/EPR/NP3695EU/A001 Operator: T J Waste & Recycling Ltd Waste Management licence No: 100089 Annual Tonnage: 124999	Issue Date: 17/09/2007 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: - Cancelled Date: - Status: Issued
H	470m S	Site Name: Harts Farm Way Transfer Station Site Address: Harts Farm Way Transfer Station, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 648636 EPR reference: EA/EPR/DP3095HH Operator: T J Waste & Recycling Limited Waste Management licence No: 10221 Annual Tonnage: 74884	Issue Date: 23/11/2000 Effective Date: 23/11/2000 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
H	477m S	Site Name: Havant Waste Transfer Station Site Address: Havant Waste Transfer Station, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: UKR002 EPR reference: EA/EPR/HB3505TQ/V002 Operator: U K Remediation Ltd Waste Management licence No: 100089 Annual Tonnage: 124999	Issue Date: 17/09/2007 Effective Date: 19/09/2019 Modified: 25/11/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
H	477m S	Site Name: Havant Waste Transfer Station Site Address: Havant Waste Transfer Station, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 651862 EPR reference: EA/EPR/LB3406HE Operator: T J Waste & Recycling Limited Waste Management licence No: 100089 Annual Tonnage: 124999	Issue Date: 17/09/2007 Effective Date: 17/09/2007 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
I	497m S	Site Name: H W R C At Harts Farm Way Site Address: Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: Unit 10, Bridge Farm, Curbridge, Botley, Hampshire, SO30 2HB	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HAM003 EPR reference: - Operator: Hampshire Recycling Ltd Waste Management licence No: 19983 Annual Tonnage: 0	Issue Date: 04/11/1998 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
I	497m S	Site Name: H W R C Site Address: Land/ Premises At, Harts Farm Way, Havant, Hampshire, PO9 1JN Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 628705 EPR reference: EA/EPR/WP3592HT Operator: Hopkins Recycling Limited Waste Management licence No: 19983 Annual Tonnage: 24999	Issue Date: 29/06/1993 Effective Date: 29/06/1993 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m	12
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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 32 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
1	178m NE	Pallet Yard Palk Road Havant Hampshire PO9 1NL	EPR/AF0536EF /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste to manufacture finished goods
C	233m NE	Pallet Yard, Palk Road, Havant, PO9 1NL	WEX354092	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
C	233m NE	Pallet Yard, Palk Road, Havant, PO9 1NL	WEX228020	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
C	233m NE	Pallet Yard, Palk Road, Havant, PO9 1NL	WEX082843	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
F	352m E	Spring Plot Brockhampton Road Havant Hampshire PO9 1NU	EPR/KE5181UL /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
2	361m NE	-	WEX194723	Storing waste exemption	Not on a farm	Storage of waste in a secure place

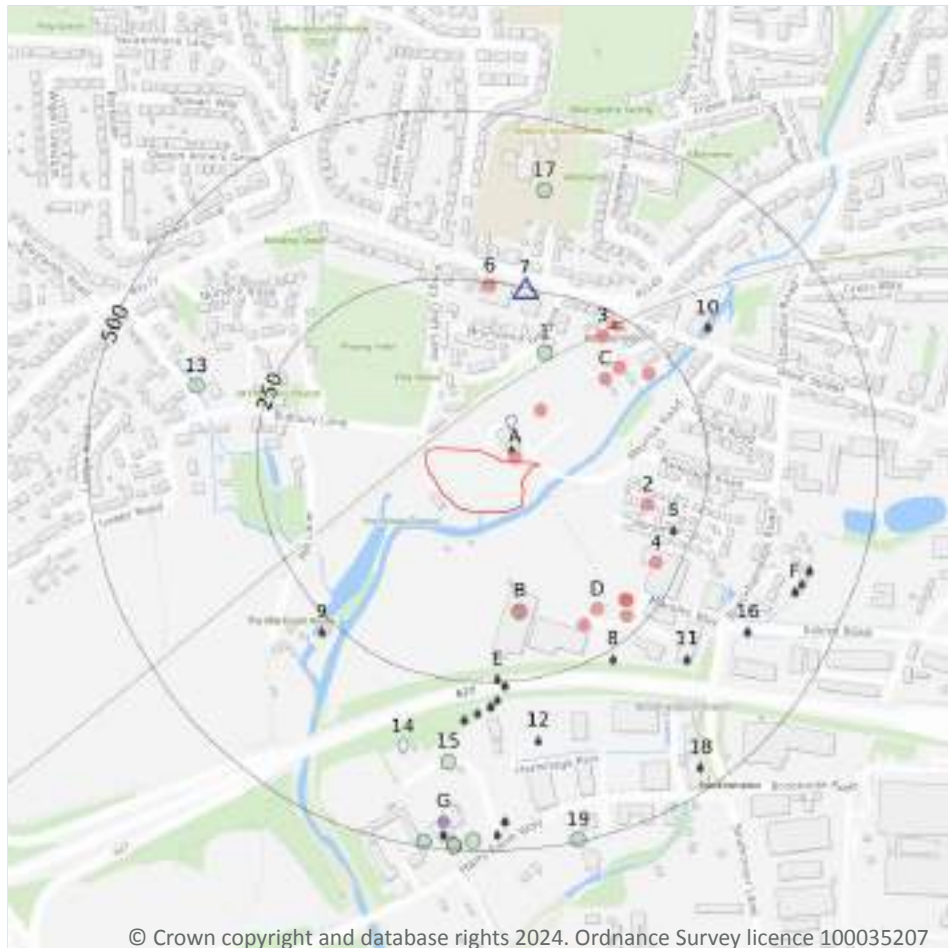


ID	Location	Site	Reference	Category	Sub-Category	Description
F	366m E	Springplot, Brockhampton Road, Havant, PO9 1NU	WEX200122	Storing waste exemption	Not on a farm	Storage of waste in a secure place
3	367m SE	Keltbray Remediation Site Harts Farm Way Hampshire PO9 1HS	EPR/WF0200U M/A001	Treating waste exemption	Non-Agricultural Waste Only	Screening and blending of waste
F	367m E	spring plot, Brockhampton road, havant, po9 1nu	WEX047818	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	374m S	UNIT 2, HERMITAGE PARK, HARTS FARM WAY, HAVANT, PO9 1FA	WEX293061	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
G	374m S	UNIT 2, HERMITAGE PARK, HARTS FARM WAY, HAVANT, PO9 1FA	WEX293061	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
4	422m SE	Unit 1, Hermitage Park, Harts Farm Way, Havant, PO9 1FA	WEX092065	Storing waste exemption	Not on a farm	Storage of waste in secure containers

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
- Historical licensed industrial activities
- Part A(1) industrial activities
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

16

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 45](#) >

ID	Location	Company	Address	Activity	Category
A	7m NE	Works	Hampshire, PO9	Unspecified Works Or Factories	Industrial Features
A	79m NE	Solar Panels	Hampshire, PO9	Energy Production	Industrial Features
B	148m S	B S D	1-3, Ridgway, Havant, Hampshire, PO9 1QJ	Distribution and Haulage	Transport, Storage and Delivery



ID	Location	Company	Address	Activity	Category
C	161m NE	J D P	Pipe Store, Palk Road, Havant, Hampshire, PO9 1NL	General Construction Supplies	Industrial Products
2	171m E	Electricity Sub Station	Hampshire, PO9	Electrical Features	Infrastructure and Facilities
C	187m NE	Premier Pallet Supplies Ltd	Coach Park, Palk Road, Havant, Hampshire, PO9 1NL	Packaging	Industrial Products
D	189m SE	Industrial Estate	Hampshire, PO9	Business Parks and Industrial Estates	Industrial Features
D	199m SE	Electricity Sub Station	Hampshire, PO9	Electrical Features	Infrastructure and Facilities
D	207m SE	Macvere Engineering Ltd	2, Ridgway, Havant, Hampshire, PO9 1QJ	Precision Engineers	Engineering Services
D	207m SE	Solent Motor Services	2, Ridgway, Havant, Hampshire, PO9 1QJ	Vehicle Repair, Testing and Servicing	Repair and Servicing
D	207m SE	S M S Tyres	2, Ridgway, Havant, Hampshire, PO9 1QJ	Vehicle Parts and Accessories	Motoring
C	211m NE	Electricity Sub Station	Hampshire, PO9	Electrical Features	Infrastructure and Facilities
3	213m NE	Bedhampton Rail Station	Hampshire, PO9	Railway Stations, Junctions and Halts	Public Transport, Stations and Infrastructure
4	217m SE	Wartsila UK Ltd	4, Marples Way, Havant, Hampshire, PO9 1NX	Marine Equipment Including Boats and Ships	Industrial Products
D	225m SE	Electricity Sub Station	Hampshire, PO9	Electrical Features	Infrastructure and Facilities
6	245m N	Cambridge Garage Portsmouth	Cambridge Garage 23, Bedhampton Road, Havant, Hampshire, PO9 3ES	New Vehicles	Motoring

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 45](#) >

ID	Location	Company	Address	LPG	Status
7	250m N	OBSOLETE	23, Bedhampton Road, Havant, Hampshire, PO9 3ES	Not Applicable	Obsolete

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**0**

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

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

0

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.

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

3

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 45 >](#)

ID	Location	Details	
G	459m S	Operator: Onyx Hampshire Ltd Address: Brockhampton Incinerator, Harts Farm Way, Havant, Hampshire, PO9 1JN Process: Incineration Permit Number: AG8276	Original Permit Number: IPCAIRAPP Date Approved: 13-5-1993 Effective Date: 13-5-1993 Status: Superseded By Variation
G	459m S	Operator: Onyx Hampshire Ltd Address: Brockhampton Incinerator, Harts Farm Way, Havant, Hampshire, PO9 1JN Process: Incineration Permit Number: AR5260	Original Permit Number: IPCMINVAR Date Approved: 31-5-1995 Effective Date: 1-6-1995 Status: Superseded By Variation
G	459m S	Operator: Onyx Hampshire Ltd Address: Brockhampton Incinerator, Harts Farm Way, Havant, Hampshire, PO9 1JN Process: Incineration Permit Number: AY3199	Original Permit Number: IPCMINVAR Date Approved: 9-4-1997 Effective Date: 14-4-1997 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

4

Records of Part A(1) 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 45](#) >

ID	Location	Details	
A	57m NE	Operator: PORTSMOUTH WATER LIMITED Installation Name: Bedhampton Landfill Process: WASTE LANDFILLING; ANY OTHER LANDFILL TO WHICH THE 2002 LANDFILL REGULATIONS APPLY Permit Number: NP3439PN Original Permit Number: NP3439PN	EPR Reference: EPR/NP3439PN Issue Date: 31/03/2008 Effective Date: 21/04/2005 Last date noted as effective: 23/11/2023 Status: Effective
A	57m NE	Operator: PORTSMOUTH WATER LTD Installation Name: BEDHAMPTON LANDFILL Process: WASTE LANDFILLING; ANY OTHER LANDFILL TO WHICH THE 2002 LANDFILL REGULATIONS APPLY Permit Number: BP3635UL Original Permit Number: NP3439PN	EPR Reference: - Issue Date: 06/09/2007 Effective Date: 31/03/2008 Last date noted as effective: 01/04/2009 Status: REVOKED
A	57m NE	Operator: Portsmouth Water Ltd Installation Name: Bedhampton Landfill Process: WASTE LANDFILLING; ANY OTHER LANDFILL TO WHICH THE 2002 LANDFILL REGULATIONS APPLY Permit Number: NP3439PN Original Permit Number: NP3439PN	EPR Reference: - Issue Date: 21/04/2005 Effective Date: 21/04/2005 Last date noted as effective: 21/03/2023 Status: Superseded
14	362m S	Operator: PEAK GEN POWER 18 LIMITED Installation Name: Peak Gen Fareham Process: TRANCHE B SG PERMITTING DATE 1ST JANUARY 2019 Permit Number: YP3732QA Original Permit Number: YP3732QA	EPR Reference: EPR/YP3732QA Issue Date: 22/02/2023 Effective Date: 17/06/2019 Last date noted as effective: 23/11/2023 Status: Effective

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

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

Records within 500m

0

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.

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m	0
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Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

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

4.13 Licensed Discharges to controlled waters

Records within 500m	21
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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 45](#) >

ID	Location	Address	Details	
A	18m NE	PARK LANE, PARK LANE, BEDHAMPTON HAMPSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: A00316 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 01/04/1991 Effective Date: 01/04/1991 Revocation Date: 14/01/1993
5	220m E	SEVEN SPRINGS LTD, SEVEN SPRINGS LTD, THE BOTTLING PLANT, RANELAGH ROAD, BEDHAMPTON, HAVANT	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: P07982 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 02/06/2000 Effective Date: 02/06/2000 Revocation Date: 14/11/2003
E	246m S	HIGH TECHNOLOGY CAMPUS, HIGH TECHNOLOGY CAMPUS, LANGSTONE GATE, SOLENT ROAD, HAVANT HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P00174 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 07/08/1985 Effective Date: 07/08/1985 Revocation Date: -
E	257m S	HIGH TECHNOLOGY CAMPUS, HIGH TECHNOLOGY CAMPUS, LANGSTONE GATE, SOLENT ROAD, HAVANT HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P00174 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 07/08/1985 Effective Date: 07/08/1985 Revocation Date: -

ID	Location	Address	Details	
8	263m SE	KINGSCROFT COURT, MARPLES WAY, KINGSCROFT COURT, MARPLES WAY, HAVANT, HAMPSHIRE, PO9 1LS	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P00398 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 20/02/1986 Effective Date: 20/02/1986 Revocation Date: -
9	271m SW	THE OLD MILL HOUSE, THE OLD MILL HOUSE, MILL LANE, BEDHAMPTON, HAVANT, HAMPSHIRE, PO9 3JH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: D01551 Permit Version: 1 Receiving Water: SALINE ESTUARY	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 02/07/1987 Effective Date: 02/07/1987 Revocation Date: 18/04/1996
E	276m S	HIGH TECHNOLOGY CAMPUS, HIGH TECHNOLOGY CAMPUS, LANGSTONE GATE, SOLENT ROAD, HAVANT HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P00174 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 07/08/1985 Effective Date: 07/08/1985 Revocation Date: -
E	286m S	HIGH TECHNOLOGY CAMPUS, HIGH TECHNOLOGY CAMPUS, LANGSTONE GATE, SOLENT ROAD, HAVANT HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P00174 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 07/08/1985 Effective Date: 07/08/1985 Revocation Date: -
E	296m S	HIGH TECHNOLOGY CAMPUS, HIGH TECHNOLOGY CAMPUS, LANGSTONE GATE, SOLENT ROAD, HAVANT HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P00174 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 07/08/1985 Effective Date: 07/08/1985 Revocation Date: -
E	307m S	HIGH TECHNOLOGY CAMPUS, HIGH TECHNOLOGY CAMPUS, LANGSTONE GATE, SOLENT ROAD, HAVANT HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P00174 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 07/08/1985 Effective Date: 07/08/1985 Revocation Date: -
10	320m NE	MILLINGTON FIELDS SITE, MILLINGTON FIELDS SITE, WEST STREET, HAVANT, HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: N01098 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: REVOKED UNDER EPR 2010 Issue date: 18/05/1983 Effective Date: 18/05/1983 Revocation Date: 14/04/2021



ID	Location	Address	Details	
11	333m SE	KINGSCROFT COURT, MARPLES WAY, KINGSCROFT COURT, MARPLES WAY, HAVANT, HAMPSHIRE, PO9 1LS	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P00398 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 20/02/1986 Effective Date: 20/02/1986 Revocation Date: -
12	341m S	BROCKHAMPTON INCINERATOR, BROCKHAMPTON INCINERATOR, HARTS FARM WAY, HAVANT, HAMPSHIRE, PO9 1JN	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: AG8276 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 13/05/1993 Effective Date: 13/05/1993 Revocation Date: 06/03/1998
16	383m SE	MANOR COURT, MANOR COURT, BROCKHAMPTON ROAD, HAVANT HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P02242 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 31/07/1989 Effective Date: 31/07/1989 Revocation Date: 31/03/1997
F	421m E	MANOR COURT, MANOR COURT, BROCKHAMPTON ROAD, HAVANT HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P02242 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 31/07/1989 Effective Date: 31/07/1989 Revocation Date: 31/03/1997
F	426m E	MANOR COURT, MANOR COURT, BROCKHAMPTON ROAD, HAVANT HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P02242 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 31/07/1989 Effective Date: 31/07/1989 Revocation Date: 31/03/1997
F	428m E	MANOR COURT, MANOR COURT, BROCKHAMPTON ROAD, HAVANT HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P02242 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 31/07/1989 Effective Date: 31/07/1989 Revocation Date: 31/03/1997
G	456m S	BROCKHAMPTON STREAM, BROCKHAMPTON STREAM	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: H02821 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 12/04/1957 Effective Date: 12/04/1957 Revocation Date: 01/07/1991



ID	Location	Address	Details	
18	468m SE	BOSHAMPTON LANE, BOSHAMPTON LANE, HAVANT HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: N01265 Permit Version: 1 Receiving Water: SALINE ESTUARY	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 05/05/1978 Effective Date: 05/05/1978 Revocation Date: -
G	476m S	HAVANT INCINERATOR, HAVANT INCINERATOR, HARTS FARM WAY, HAVANT, HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: N01273 Permit Version: 1 Receiving Water: SALINE ESTUARY	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 05/01/1978 Effective Date: 05/01/1978 Revocation Date: 31/03/1997
G	479m S	HAVANT HW RECYCLING CENTRE, HAVANT HW RECYCLING CENTRE, HARTS FARM WAY, HAVANT, HAMPSHIRE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: P07333 Permit Version: 1 Receiving Water: SALINE ESTUARY	Status: FAILED TRANSFER Issue date: 12/09/2000 Effective Date: 12/09/2000 Revocation Date: 17/07/2018

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
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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

0

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.

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

10

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

Features are displayed on the Current industrial land use map on [page 45 >](#)

ID	Location	Details	
B	148m S	Incident Date: 12/09/2003 Incident Identification: 189281 Pollutant: Atmospheric Pollutants and Effects: Contaminated Water Pollutant Description: Smoke: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
1	163m NE	Incident Date: 03/12/2012 Incident Identification: 1064967 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
13	353m W	Incident Date: 12/05/2003 Incident Identification: 157648 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
15	371m S	Incident Date: 26/06/2001 Incident Identification: 11663 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
17	396m N	Incident Date: 29/08/2003 Incident Identification: 186111 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	485m S	Incident Date: 09/10/2003 Incident Identification: 195271 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
G	492m S	Incident Date: 17/06/2002 Incident Identification: 85478 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	493m S	Incident Date: 11/02/2002 Incident Identification: 57618 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	493m S	Incident Date: 11/02/2002 Incident Identification: 57618 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
19	496m S	Incident Date: 17/06/2003 Incident Identification: 166643 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

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

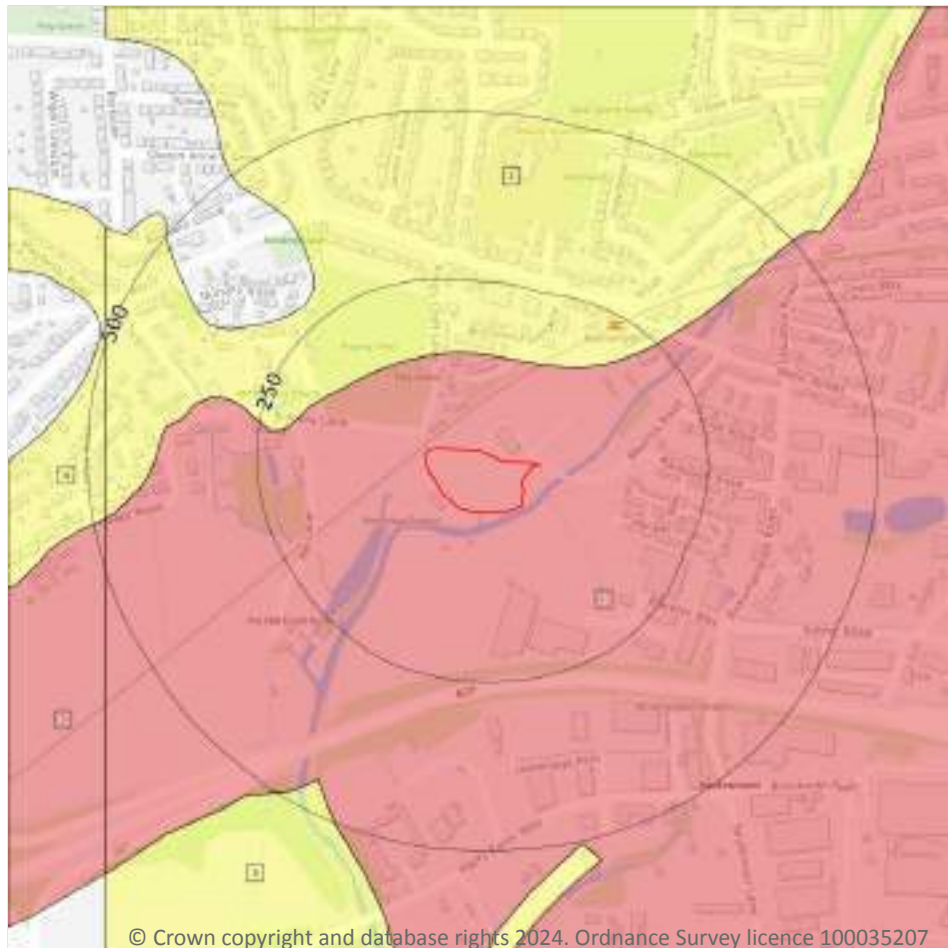
Records within 500m

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



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

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5.1 Superficial aquifer

Records within 500m

5

Aquifer status of groundwater held within superficial geology.

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

ID	Location	Designation	Description
1	On site	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
2	136m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

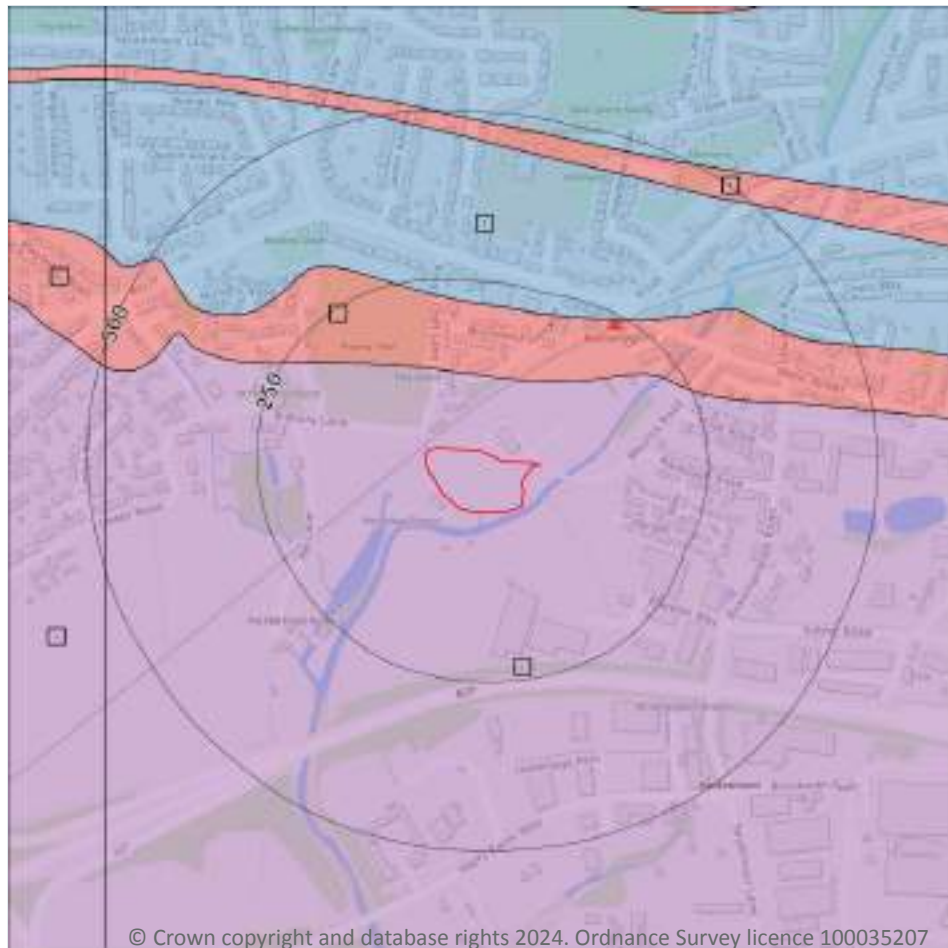


ID	Location	Designation	Description
3	452m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	473m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	482m W	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



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

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5.2 Bedrock aquifer

Records within 500m

6

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 59](#) >

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	111m N	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

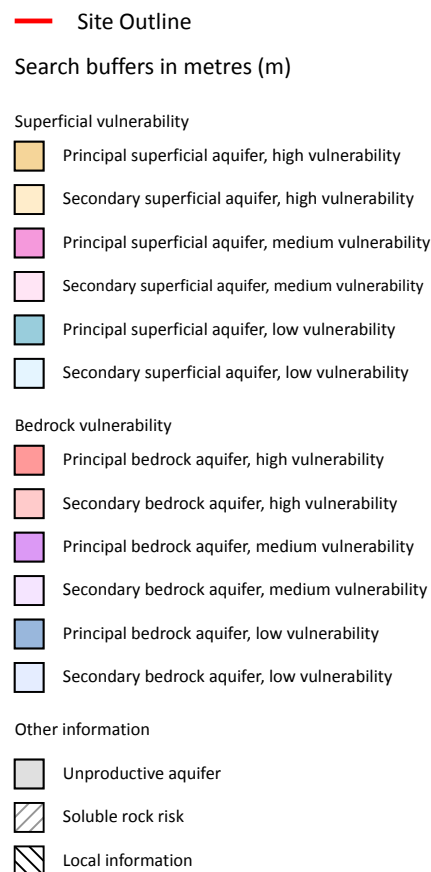
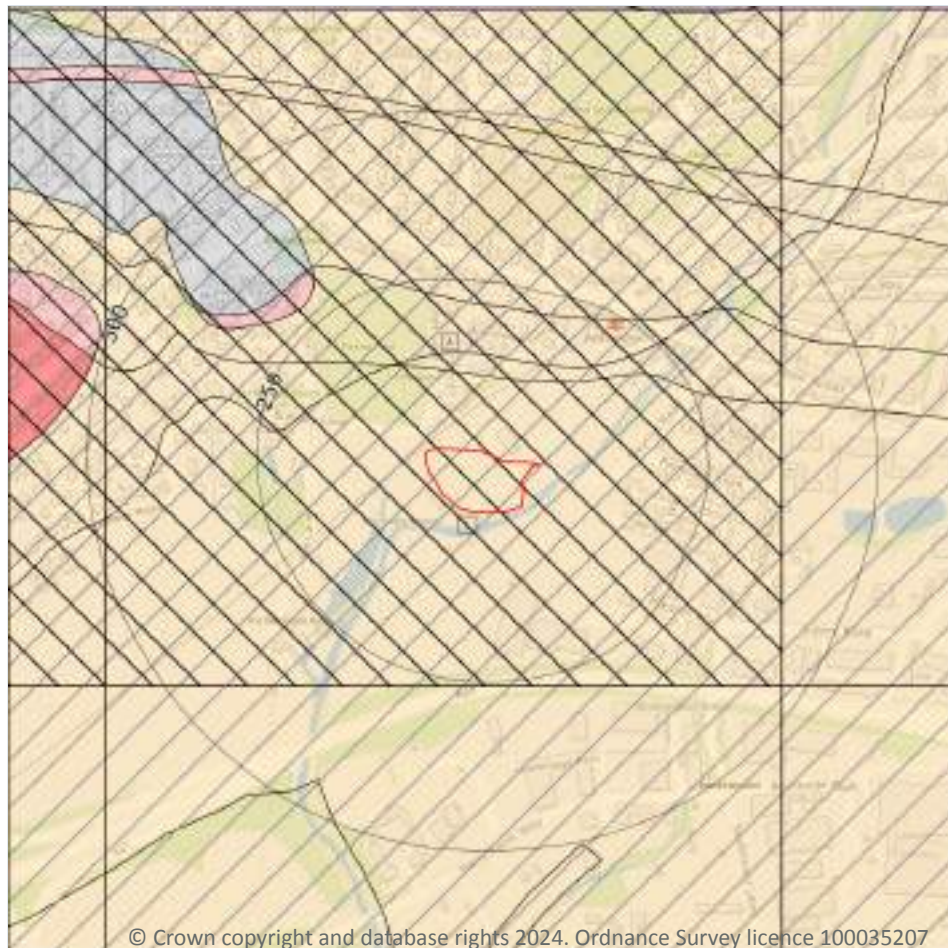


ID	Location	Designation	Description
3	215m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	445m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	473m W	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
6	490m W	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.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

1

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 61](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal 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	1
------------------------	----------

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
A	Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.	2.0%

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

5.5 Groundwater vulnerability- local information

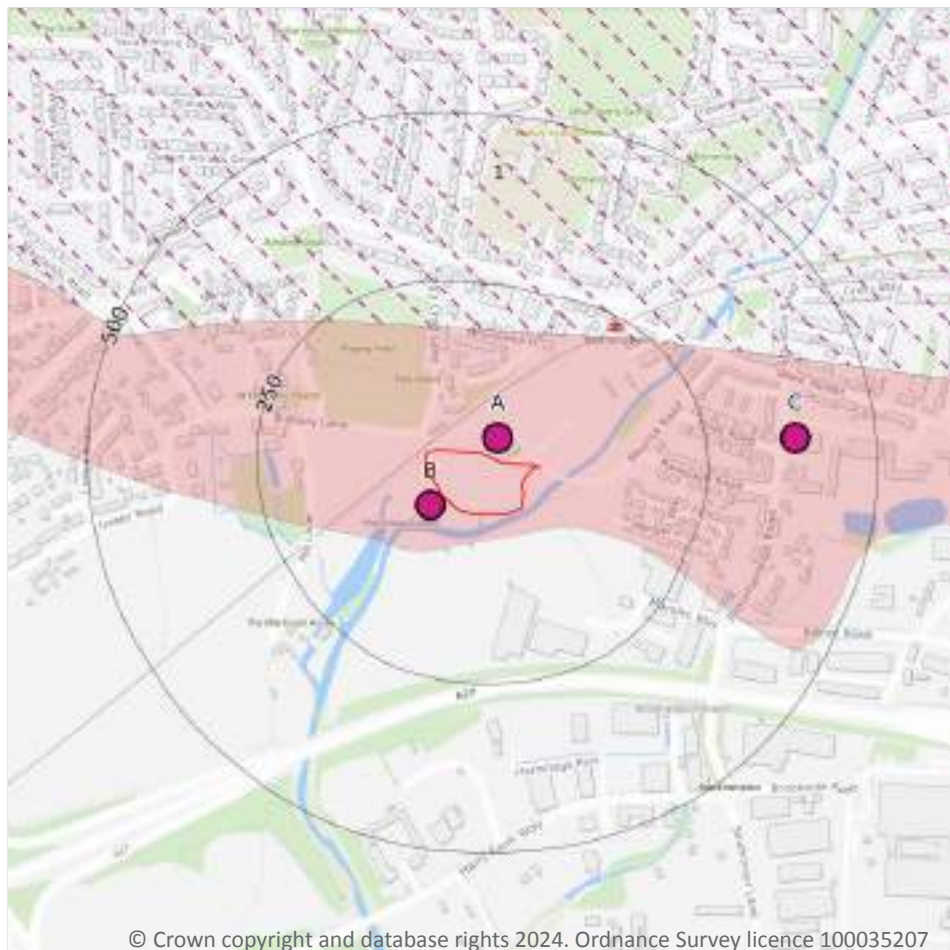
Records on site	1
------------------------	----------

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 ↗.

ID	Summary	Additional information
A	Increased vulnerability of aquifers due to rapid flow pathways	Local studies confirm presence of swallow holes in the area

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

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

3

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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 63](#) >

ID	Location	Details	
B	23m SW	Status: Active Licence No: 11/42/36.2/1 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: HAVANT PS Data Type: Point Name: Portsmouth Water Ltd Easting: 470480 Northing: 106270	Annual Volume (m ³): 35770000 Max Daily Volume (m ³): 137000 Original Application No: NPS/WR/003341 Original Start Date: 23/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 09/06/2009 Version End Date: -
A	30m NE	Status: Active Licence No: 11/42/36.2/1 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BEDHAMPTON PS SPRING NO 1 Data Type: Point Name: Portsmouth Water Ltd Easting: 470580 Northing: 106370	Annual Volume (m ³): 35770000 Max Daily Volume (m ³): 137000 Original Application No: NPS/WR/003341 Original Start Date: 23/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 09/06/2009 Version End Date: -
C	380m E	Status: Active Licence No: 11/42/36.2/1 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BEDHAMPTON PS SPRING NO 2 Data Type: Point Name: Portsmouth Water Ltd Easting: 471020 Northing: 106370	Annual Volume (m ³): 35770000 Max Daily Volume (m ³): 137000 Original Application No: NPS/WR/003341 Original Start Date: 23/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 09/06/2009 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	0
-----------------------------	----------

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.

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



5.8 Potable abstractions

Records within 2000m

3

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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 63](#) >

ID	Location	Details	
B	23m SW	Status: Active Licence No: 11/42/36.2/1 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: HAVANT PS Data Type: Point Name: Portsmouth Water Ltd Easting: 470480 Northing: 106270	Annual Volume (m ³): 35770000 Max Daily Volume (m ³): 137000 Original Application No: NPS/WR/003341 Original Start Date: 23/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 09/06/2009 Version End Date: -
A	30m NE	Status: Active Licence No: 11/42/36.2/1 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BEDHAMPTON PS SPRING NO 1 Data Type: Point Name: Portsmouth Water Ltd Easting: 470580 Northing: 106370	Annual Volume (m ³): 35770000 Max Daily Volume (m ³): 137000 Original Application No: NPS/WR/003341 Original Start Date: 23/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 09/06/2009 Version End Date: -
C	380m E	Status: Active Licence No: 11/42/36.2/1 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BEDHAMPTON PS SPRING NO 2 Data Type: Point Name: Portsmouth Water Ltd Easting: 471020 Northing: 106370	Annual Volume (m ³): 35770000 Max Daily Volume (m ³): 137000 Original Application No: NPS/WR/003341 Original Start Date: 23/12/1965 Expiry Date: - Issue No: 102 Version Start Date: 09/06/2009 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m

1

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 63](#) >



ID	Location	Type	Description
A	On site	1	Inner catchment

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m	1
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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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 63](#) >

ID	Location	Type	Description
1	181m N	1c	Inner catchment within confined aquifer

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

22

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

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

ID	Location	Type of water feature	Ground level	Permanence	Name
B	2m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
C	8m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hermitage Stream
A	25m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hermitage Stream
D	27m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	43m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	52m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	66m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	78m SW	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hermitage Stream
F	203m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	207m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	217m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	217m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	224m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	228m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
G	235m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	240m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	240m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	240m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	241m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	242m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	242m SW	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	246m SW	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hermitage Stream

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

7

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.

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

This data is sourced from the Ordnance Survey.



6.3 WFD Surface water body catchments

Records on site	2
------------------------	----------

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 67 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Hermitage Stream	GB107042016370	East Hampshire Rivers	East Hampshire
A	On site	Coastal Catchment	Not part of a river WB catchment	216	East Hampshire Rivers	East Hampshire

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

6.4 WFD Surface water bodies

Records identified	2
---------------------------	----------

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 67 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
2	On site	River	Hermitage Stream	GB107042016370 ↗	Moderate	Fail	Moderate	2019
5	82m SW	Transi	LANGSTONE HARBOUR	GB580705130000 ↗	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 67 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
3	On site	South Hants Lambeth Group	GB40702G503700 ↗	Good	Good	Good	2019

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



7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

35

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).

Features are displayed on the River and coastal flooding map on [page 72 >](#)



Distance	Flood risk category
On site	N/A
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	0
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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
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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
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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

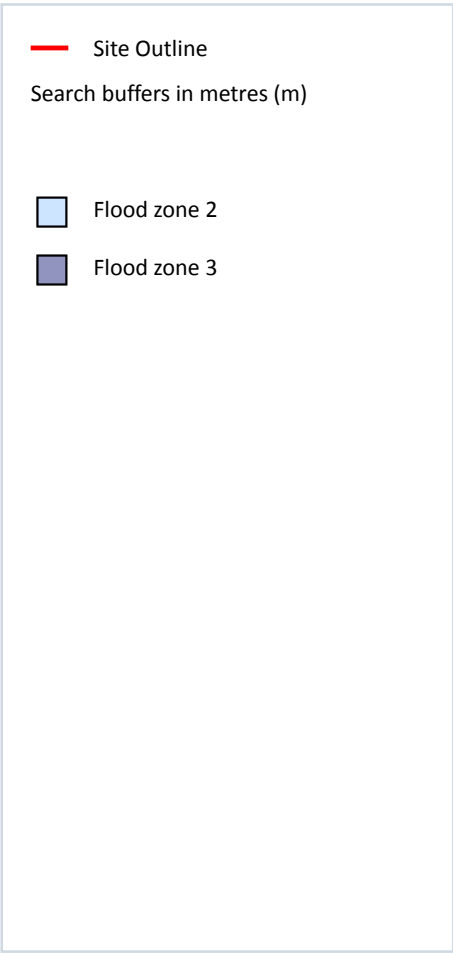
Records within 250m	0
---------------------	---

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

1

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.

Features are displayed on the River and coastal flooding map on [page 72 >](#)

Location	Type
0m SE	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

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.

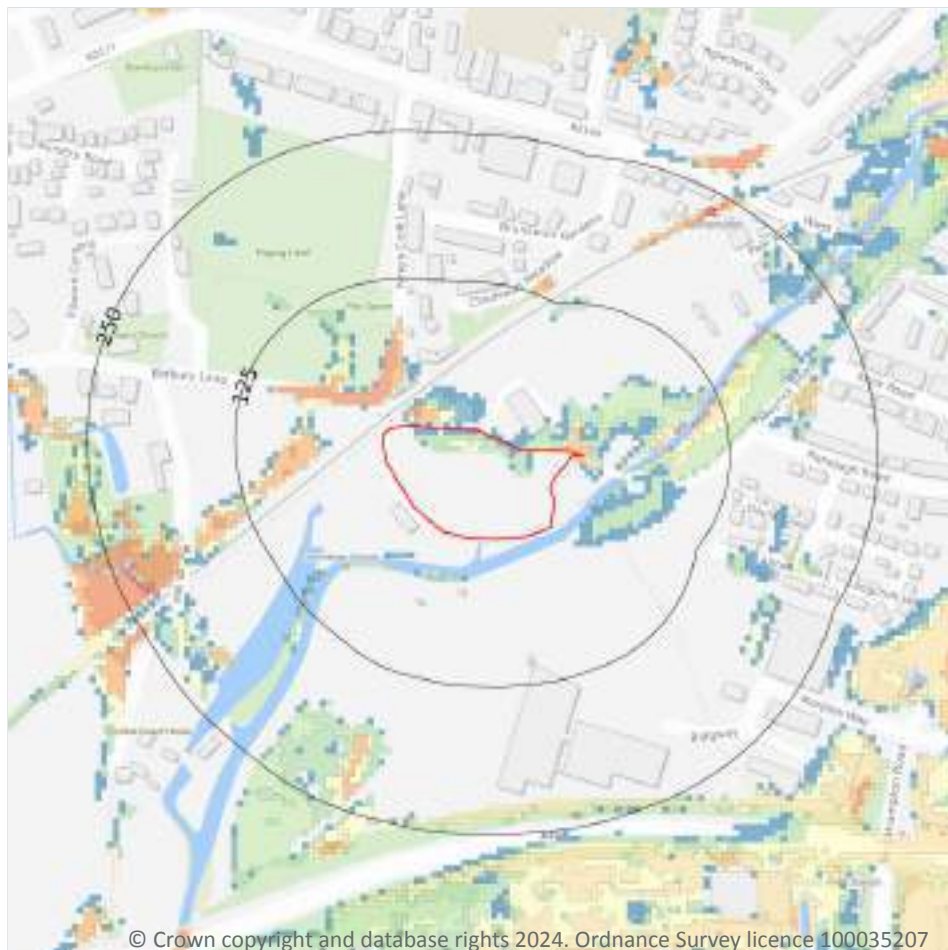
Features are displayed on the River and coastal flooding map on [page 72 >](#)

Location	Type
0m SE	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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 76 >](#)

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.

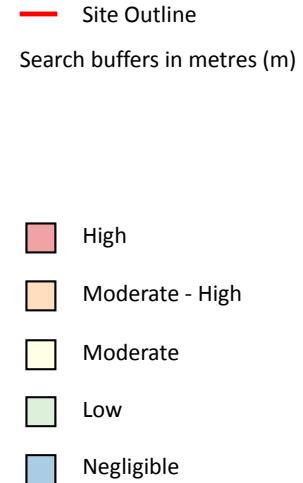
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

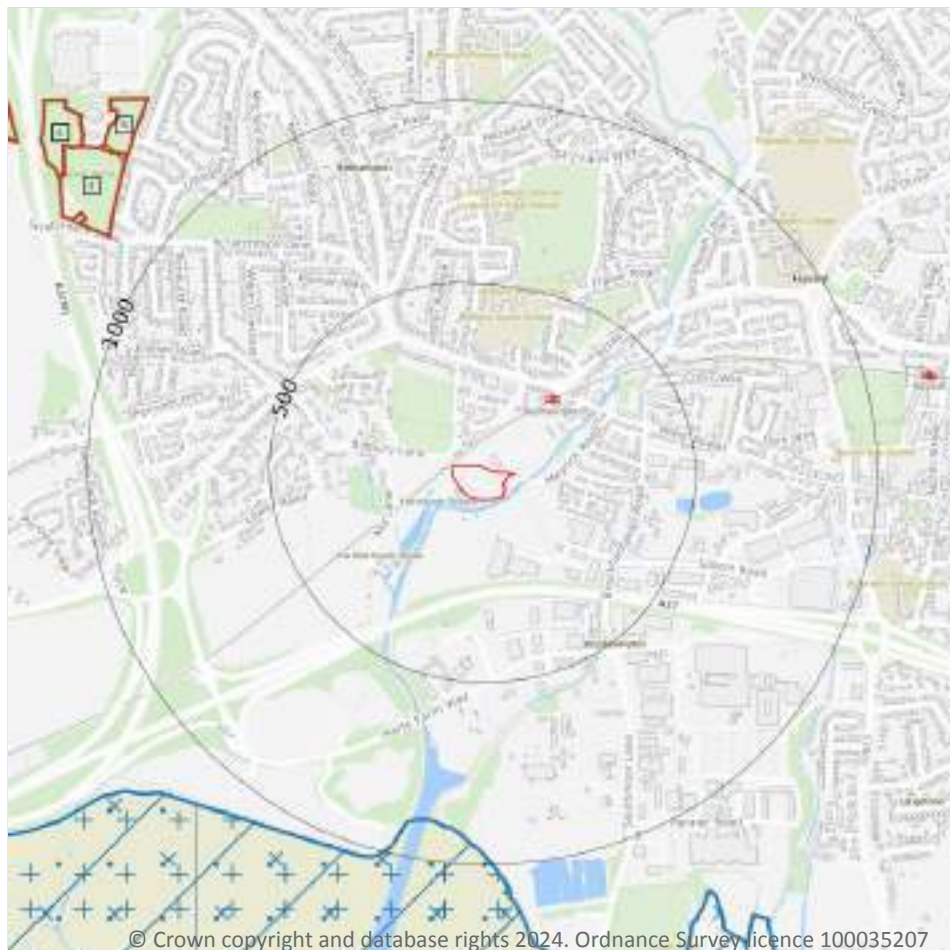
High

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 78 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- / Sites of Special Scientific Interest (SSSI)
- X Conserved wetland sites (Ramsar sites)
- + Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- + Local Nature Reserves (LNR)
- ▨ Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

3

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.

Features are displayed on the Environmental designations map on [page 79 >](#)

ID	Location	Name	Data source
A	889m S	Langstone Harbour	Natural England



ID	Location	Name	Data source
-	1726m SW	Langstone Harbour	Natural England
-	1871m SE	Chichester Harbour	Natural England

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

3

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.

Features are displayed on the Environmental designations map on [page 79 >](#)

ID	Location	Site	Details
A	889m S	Name: Chichester and Langstone Harbours Site status: Listed Data source: Natural England	Overview: Chichester and Langstone Harbours are large, sheltered estuarine basins comprising extensive mud and sand flats exposed at low tide. The site is of particular significance for over-wintering wildfowl and waders and also a wide range of coastal and transitional habitats supporting important plant and animal communities. Ramsar criteria: Ramsar criterion 1 Two large estuarine basins linked by the channel which divides Hayling Island from the main Hampshire coastline. The site includes intertidal mudflats, saltmarsh, sand and shingle spits and sand dunes.
-	1726m SW	Name: Chichester and Langstone Harbours Site status: Listed Data source: Natural England	Overview: Chichester and Langstone Harbours are large, sheltered estuarine basins comprising extensive mud and sand flats exposed at low tide. The site is of particular significance for over-wintering wildfowl and waders and also a wide range of coastal and transitional habitats supporting important plant and animal communities. Ramsar criteria: Ramsar criterion 1 Two large estuarine basins linked by the channel which divides Hayling Island from the main Hampshire coastline. The site includes intertidal mudflats, saltmarsh, sand and shingle spits and sand dunes.



ID	Location	Site	Details
-	1870m SE	Name: Chichester and Langstone Harbours Site status: Listed Data source: Natural England	Overview: Chichester and Langstone Harbours are large, sheltered estuarine basins comprising extensive mud and sand flats exposed at low tide. The site is of particular significance for over-wintering wildfowl and waders and also a wide range of coastal and transitional habitats supporting important plant and animal communities. Ramsar criteria: Ramsar criterion 1 Two large estuarine basins linked by the channel which divides Hayling Island from the main Hampshire coastline. The site includes intertidal mudflats, saltmarsh, sand and shingle spits and sand dunes.

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

1

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.

Features are displayed on the Environmental designations map on [page 79 >](#)

ID	Location	Name	Features of interest	Habitat description	Data source
1	889m S	Solent Maritime	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Lagoons; Annual vegetation of drift lines; Coastal shingle vegetation outside the reach of waves; Glasswort and other annuals colonising mud and sand; Cord-grass swards; Atlantic salt meadows; Shifting dunes with marram; Dune grassland; Desmoulin's whorl snail; Otter; Common seal.	Broad-leaved deciduous woodland; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural England

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

10.4 Special Protection Areas (SPA)

Records within 2000m

5

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.

Features are displayed on the Environmental designations map on [page 79 >](#)



ID	Location	Name	Species of interest	Habitat description	Data source
2	889m S	Chichester and Langstone Harbours	Common shelduck; Eurasian wigeon; Eurasian teal; Northern pintail; Northern shoveler; Red-breasted merganser; Ringed plover; Grey plover; Sanderling; Bar-tailed godwit; Eurasian curlew; Common redshank; Ruddy turnstone; Sandwich tern; Common tern; Little tern; Dunlin; Dark-bellied brent goose	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water); Heath, Scrub, Maquis and Garrigue, Phygrana; Humid grassland, Mesophile grassland; Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Broad-leaved deciduous woodland; Bogs, Marshes, Water fringed vegetation, Fens	Natural England
3	1128m SW	Chichester and Langstone Harbours	Common shelduck; Eurasian wigeon; Eurasian teal; Northern pintail; Northern shoveler; Red-breasted merganser; Ringed plover; Grey plover; Sanderling; Bar-tailed godwit; Eurasian curlew; Common redshank; Ruddy turnstone; Sandwich tern; Common tern; Little tern; Dunlin; Dark-bellied brent goose	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water); Heath, Scrub, Maquis and Garrigue, Phygrana; Humid grassland, Mesophile grassland; Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Broad-leaved deciduous woodland; Bogs, Marshes, Water fringed vegetation, Fens	Natural England
-	1726m SW	Chichester and Langstone Harbours	Common shelduck; Eurasian wigeon; Eurasian teal; Northern pintail; Northern shoveler; Red-breasted merganser; Ringed plover; Grey plover; Sanderling; Bar-tailed godwit; Eurasian curlew; Common redshank; Ruddy turnstone; Sandwich tern; Common tern; Little tern; Dunlin; Dark-bellied brent goose	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water); Heath, Scrub, Maquis and Garrigue, Phygrana; Humid grassland, Mesophile grassland; Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Broad-leaved deciduous woodland; Bogs, Marshes, Water fringed vegetation, Fens	Natural England



ID	Location	Name	Species of interest	Habitat description	Data source
-	1871m SE	Chichester and Langstone Harbours	Common shelduck; Eurasian wigeon; Eurasian teal; Northern pintail; Northern shoveler; Red-breasted merganser; Ringed plover; Grey plover; Sanderling; Bar-tailed godwit; Eurasian curlew; Common redshank; Ruddy turnstone; Sandwich tern; Common tern; Little tern; Dunlin; Dark-bellied brent goose	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water); Heath, Scrub, Maquis and Garrigue, Phygrana; Humid grassland, Mesophile grassland; Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Broad-leaved deciduous woodland; Bogs, Marshes, Water fringed vegetation, Fens	Natural England
-	1938m S	Chichester and Langstone Harbours	Common shelduck; Eurasian wigeon; Eurasian teal; Northern pintail; Northern shoveler; Red-breasted merganser; Ringed plover; Grey plover; Sanderling; Bar-tailed godwit; Eurasian curlew; Common redshank; Ruddy turnstone; Sandwich tern; Common tern; Little tern; Dunlin; Dark-bellied brent goose	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water); Heath, Scrub, Maquis and Garrigue, Phygrana; Humid grassland, Mesophile grassland; Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Improved grassland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Broad-leaved deciduous woodland; Bogs, Marshes, Water fringed vegetation, Fens	Natural England

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

2

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.



Features are displayed on the Environmental designations map on [page 79 >](#)

ID	Location	Name	Data source
-	1726m SW	Farlington Marshes	Natural England
-	1939m SW	Farlington Marshes	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

9

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.

Features are displayed on the Environmental designations map on [page 79 >](#)

ID	Location	Name	Woodland Type
4	1133m NW	Unknown	Ancient Replanted Woodland
5	1237m NW	Unknown	Ancient & Semi-Natural Woodland
6	1327m NW	Unknown	Ancient & Semi-Natural Woodland
7	1491m NW	Unknown	Ancient & Semi-Natural Woodland
-	1815m NW	Unknown	Ancient Replanted Woodland
-	1896m N	Unknown	Ancient & Semi-Natural Woodland
-	1952m NW	Unknown	Ancient & Semi-Natural Woodland
-	1966m NW	Unknown	Ancient & Semi-Natural Woodland
-	1992m N	Unknown	Ancient & Semi-Natural Woodland

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

4

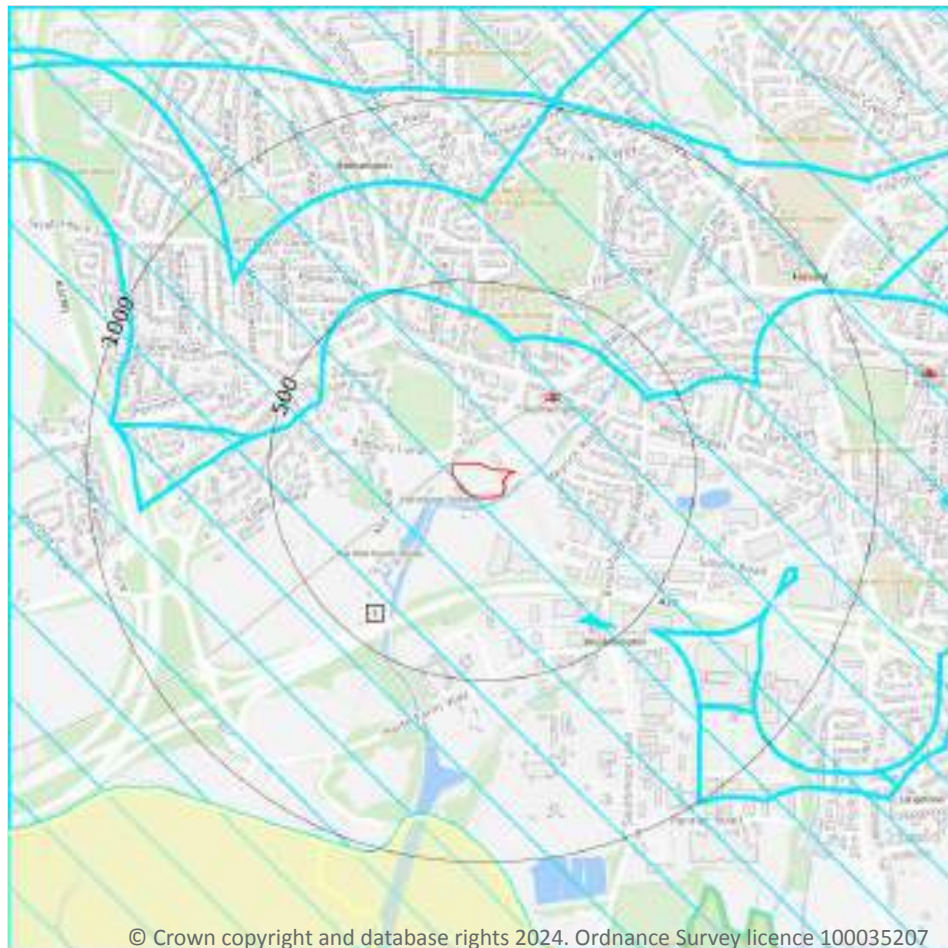
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	Chichester,Langstone and Portsmouth Harbours Eutrophic NVZ (TraC)	Eutrophic Water	2	Existing
274m S	Chichester,Langstone and Portsmouth Harbours Eutrophic NVZ (TraC)	Eutrophic Water	2	Existing
1809m E	WARBLINGTON STREAM - NO.2 NVZ	Surface Water	667	Existing
1952m E	WARBLINGTON STREAM - NO.2 NVZ	Surface Water	667	Existing

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



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

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 87 >](#)

ID	Location	Type of developments requiring consultation
1	On site	All applications - ALL PLANNING APPLICATIONS - EXCEPT HOUSEHOLDER APPLICATIONS. Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements. NUTRIENT IMPACT AREA. For new development with overnight accommodation Reg 63 of the Conservation of Habitats and Species Regulations 2017 must be applied and additional measures required. LPA to refer to Natural England's Nutrient Neutrality advice.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	6
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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.

Features are displayed on the SSSI Impact Zones and Units map on [page 87 >](#)

ID: 10
 Location: 889m S
 SSSI name: Langstone Harbour
 Unit name: Langstone Hbr East
 Broad habitat: Littoral Sediment
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
H1110 Sandbanks which are slightly covered by sea water all the time	Favourable	29/11/2010
H1130 Estuaries	Unfavourable - Recovering	21/09/2018
H1140 Mudflats and sandflats not covered by seawater at low tide	Unfavourable - Recovering	29/11/2010
H1210 Annual vegetation of drift lines	Favourable	29/11/2010
H1220 Perennial vegetation of stony banks	Favourable	29/11/2010
H1310 Salicornia and other annuals colonising mud and sand	Unfavourable - Recovering	29/11/2010
H1320 Spartina swards (Spartinion maritimae)	Unfavourable - Recovering	29/11/2010
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Unfavourable - Recovering	29/11/2010
SM4-28 - Saltmarsh	Unfavourable - Recovering	29/11/2010



ID: 13
 Location: 1033m SW
 SSSI name: Langstone Harbour
 Unit name: North Binness Island
 Broad habitat: Littoral Sediment
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
H1110 Sandbanks which are slightly covered by sea water all the time	Unfavourable - Recovering	29/10/2010
H1130 Estuaries	Unfavourable - Recovering	21/09/2018
H1140 Mudflats and sandflats not covered by seawater at low tide	Unfavourable - Recovering	29/10/2010
H1210 Annual vegetation of drift lines	Unfavourable - Recovering	29/10/2010
H1220 Perennial vegetation of stony banks	Unfavourable - Recovering	29/10/2010
H1310 Salicornia and other annuals colonising mud and sand	Unfavourable - Recovering	29/10/2010
H1320 Spartina swards (<i>Spartinion maritimae</i>)	Unfavourable - Recovering	29/10/2010
H1330 Atlantic salt meadows (<i>Glauco-Puccinellietalia maritimae</i>)	Unfavourable - Recovering	29/10/2010
SM4-28 - Saltmarsh	-	-

ID: 16
 Location: 1222m SE
 SSSI name: Langstone Harbour
 Unit name: South Moor
 Broad habitat: Neutral Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Curlew, <i>Numenius arquata</i>	Favourable	24/03/2022

ID: -
 Location: 1726m SW
 SSSI name: Langstone Harbour
 Unit name: Farlington Marshes Lnr (North)
 Broad habitat: Neutral Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
SM4-28 - Saltmarsh	Favourable	01/10/2010

ID: -
 Location: 1871m SE
 SSSI name: Chichester Harbour
 Unit name: Warblington / Emsworth Foreshore
 Broad habitat: Littoral Sediment
 Condition: Unfavourable - Declining
 Reportable features:

Feature name	Feature condition	Date of assessment
H1130 Estuaries	Unfavourable - No change	26/09/2018
H1140 Mudflats and sandflats not covered by seawater at low tide	Unfavourable - Recovering	29/11/2010
H1210 Annual vegetation of drift lines	Unfavourable - Recovering	29/11/2010
H1220 Perennial vegetation of stony banks	Favourable	29/11/2010
H1310 Salicornia and other annuals colonising mud and sand	Unfavourable - Recovering	29/11/2010
H1320 Spartina swards (Spartinion maritimae)	Unfavourable - Recovering	29/11/2010
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Unfavourable - Declining	07/04/2021
Littoral sediment	Unfavourable - Recovering	13/08/2014
SM4-28 - Saltmarsh	Unfavourable - Declining	07/04/2021

ID: -
 Location: 1924m SW
 SSSI name: Langstone Harbour
 Unit name: Farlington Marshes Lnr Formerly Unit 001
 Broad habitat: Neutral Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Common tern, Sterna hirundo	Favourable	29/03/2022
Aggregations of breeding birds - Little tern, Sterna albifrons	Favourable	29/03/2022
Aggregations of breeding birds - Sandwich tern, Sterna sandvicensis	Favourable	29/03/2022
Aggregations of non-breeding birds - Bar-tailed godwit, Limosa lapponica	Favourable	29/03/2022

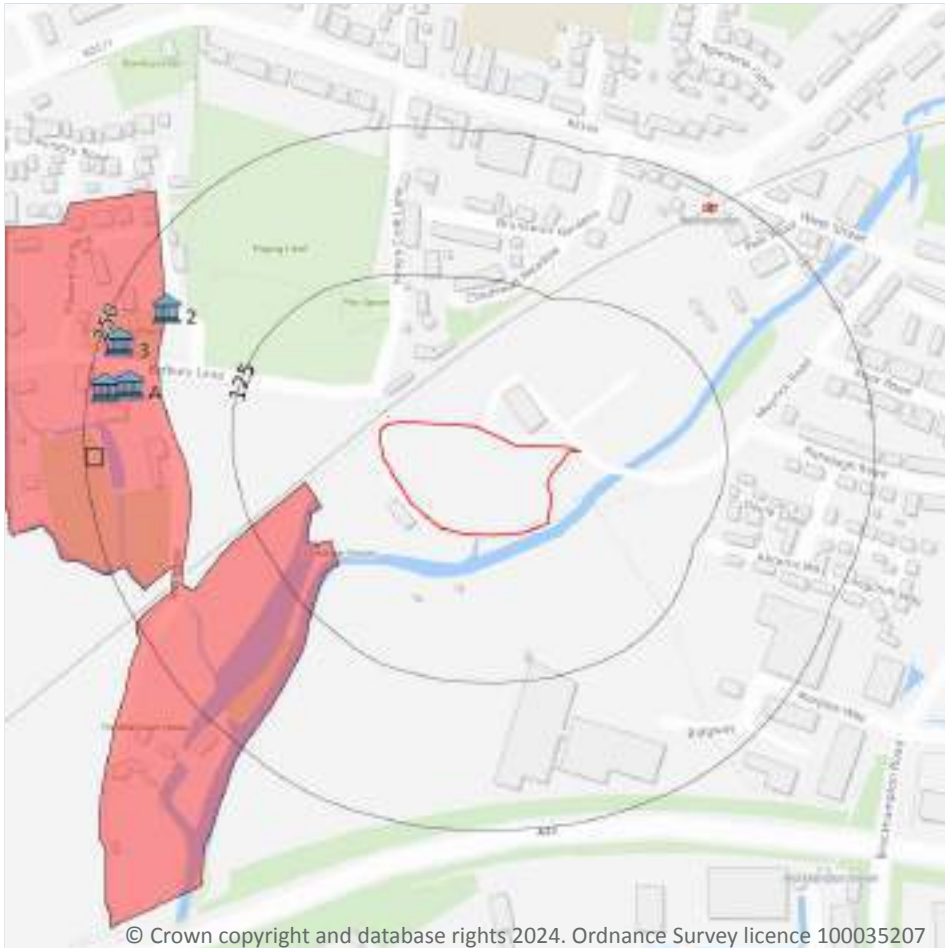


Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Brent goose (dark-bellied), Branta bernicla bernicla	Favourable	29/03/2022
Aggregations of non-breeding birds - Curlew, Numenius arquata	Favourable	29/03/2022
Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina	Favourable	29/03/2022
Aggregations of non-breeding birds - Grey plover, Pluvialis squatarola	Favourable	29/03/2022
Aggregations of non-breeding birds - Pintail, Anas acuta	Favourable	29/03/2022
Aggregations of non-breeding birds - Red-breasted merganser, Mergus serrator	Favourable	29/03/2022
Aggregations of non-breeding birds - Redshank, Tringa totanus	Favourable	29/03/2022
Aggregations of non-breeding birds - Ringed plover, Charadrius hiaticula	Favourable	29/03/2022
Aggregations of non-breeding birds - Sanderling, Calidris alba	Favourable	29/03/2022
Aggregations of non-breeding birds - Shelduck, Tadorna tadorna	Favourable	29/03/2022
Aggregations of non-breeding birds - Shoveler, Anas clypeata	Favourable	29/03/2022
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	29/03/2022
Aggregations of non-breeding birds - Turnstone, Arenaria interpres	Favourable	29/03/2022
Aggregations of non-breeding birds - Wigeon, Anas penelope	Favourable	29/03/2022
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	29/03/2022
Lowland neutral grassland (MG5)	Favourable	29/03/2022
SM4-28 - Saltmarsh	Favourable	29/03/2022
Vascular plant assemblage	Favourable	29/03/2022

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



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

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**4**

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.

Features are displayed on the Visual and cultural designations map on [page 92 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
2	208m NW	Manor House Boundary Wall	II	1340187	06/02/1984
A	216m W	Bidbury House	II	1154418	16/05/1952
3	233m W	Church Of St Thomas	II	1340186	16/05/1952
A	236m W	Stable Block To The Old Rectory	II	1303829	06/02/1984

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 92](#) >

ID	Location	Name	District	Date of designation
1	66m W	Old Bedhampton, Havant	Havant	1980

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

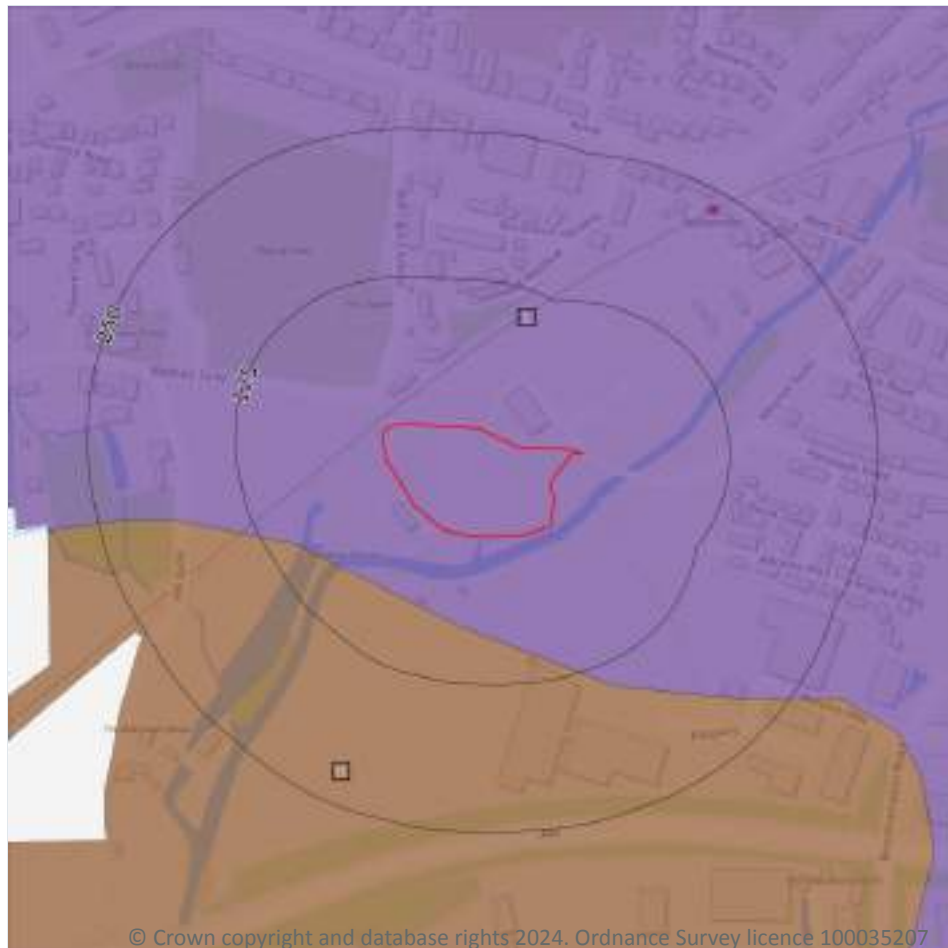
0

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



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

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 95](#) >

ID	Location	Classification	Description
1	On site	Urban	-
2	67m SW	Grade 1	Excellent quality agricultural land. Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.



This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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.

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

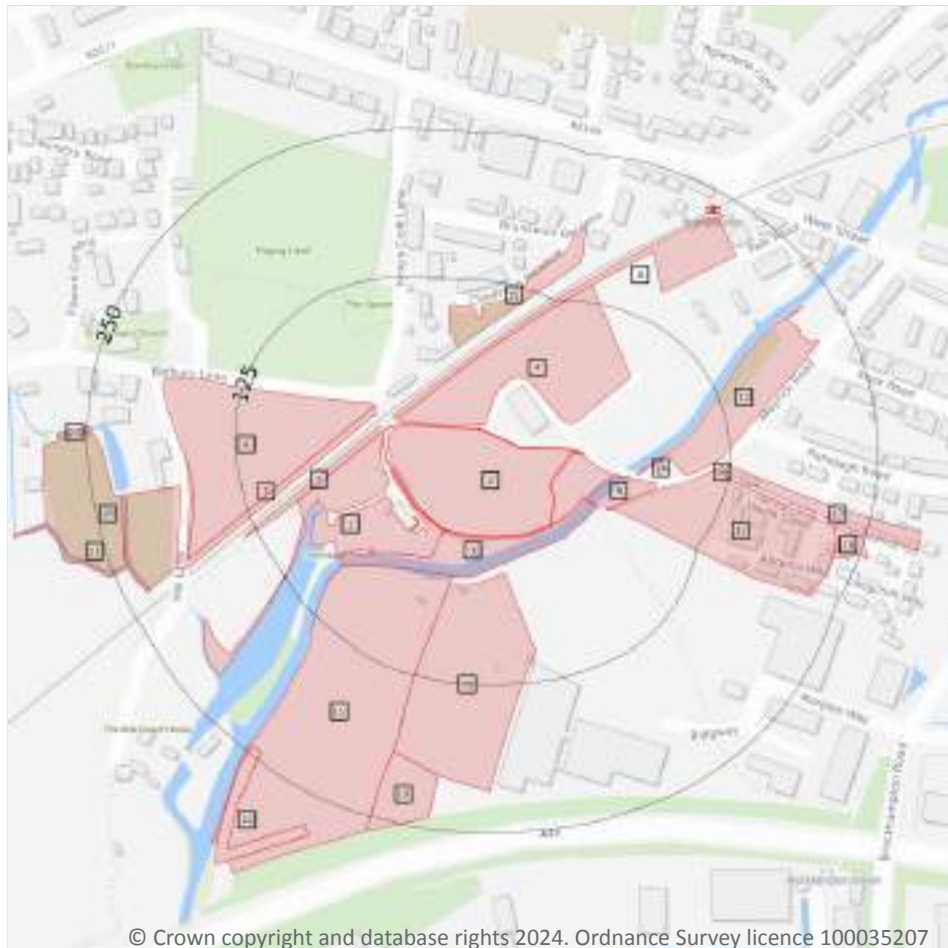
0

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



- 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

23

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 97](#) >

ID	Location	Main Habitat	Other habitats
1	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
2	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
3	1m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
4	1m NW	No main habitat but additional habitats present	Additional: CFPGM (INV 50%)



ID	Location	Main Habitat	Other habitats
5	3m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
6	6m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
7	16m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
8	22m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
9	28m E	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
10	32m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
11	36m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
12	44m E	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
13	49m E	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
14	61m E	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
15	68m N	Good quality semi-improved grassland	Main habitat: LMEAD (INV > 50%)
16	114m E	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
17	124m E	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
18	176m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
19	192m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
20	221m E	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
21	223m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
22	243m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
23	246m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (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



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

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14.1 10k Availability

Records within 500m

2

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.

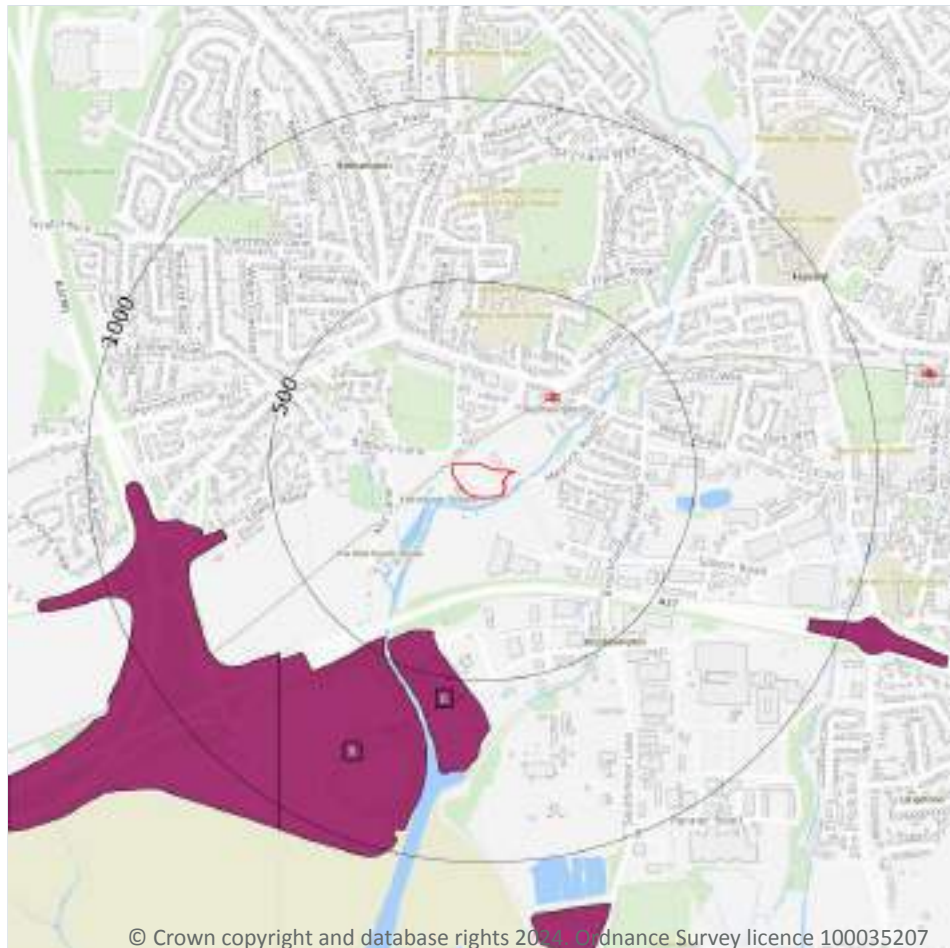
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 100](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SU70NW
2	473m W	Full	Full	Full	No coverage	SU60NE

This data is sourced from the British Geological Survey.



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



- Site Outline
- Search buffers in metres (m)
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

2

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.

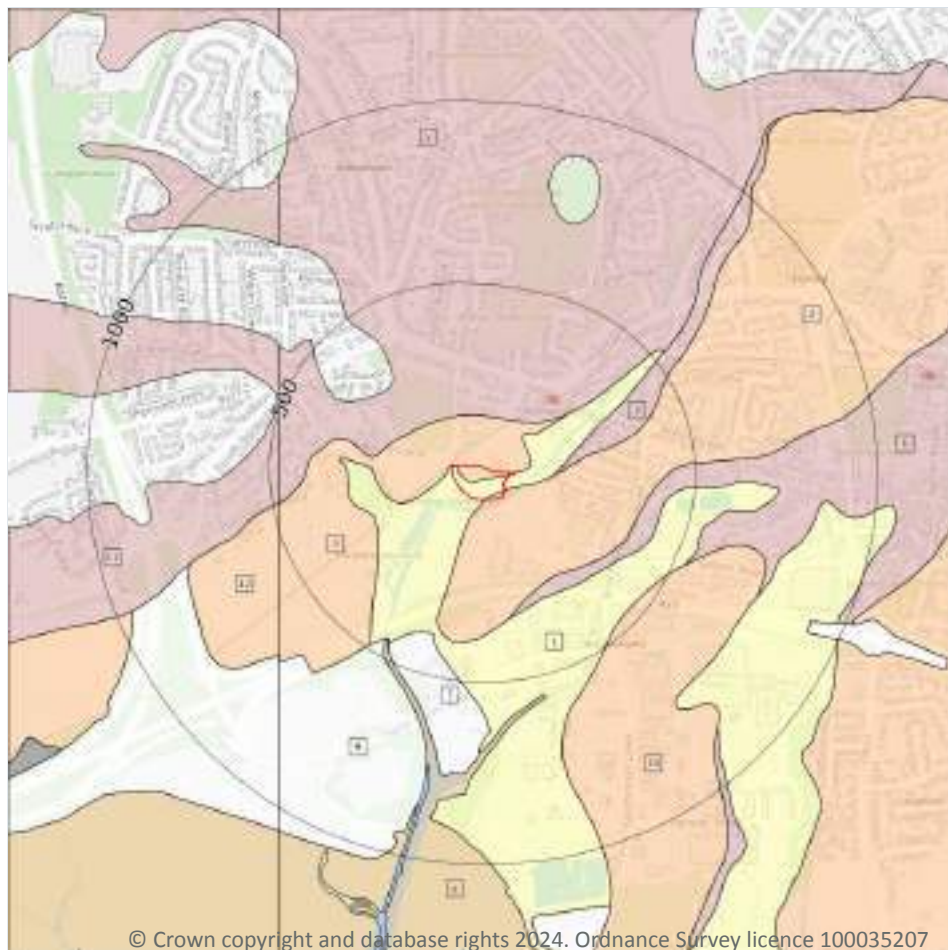
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 101](#) >

ID	Location	LEX Code	Description	Rock description
1	387m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	452m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

12

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.

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 102 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
2	On site	RTDU-XSZC	River Terrace Deposits (undifferentiated) - Sand, Silt And Clay	Sand, Silt And Clay
3	On site	RTDU-XSZC	River Terrace Deposits (undifferentiated) - Sand, Silt And Clay	Sand, Silt And Clay



ID	Location	LEX Code	Description	Rock description
4	116m E	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
5	132m NW	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
6	259m SE	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
7	387m S	SUPD-SED	Superficial Deposits - Sediment	Sediment
8	447m SW	BTFU-XCZSV	Beach And Tidal Flat Deposits (undifferentiated) - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
9	452m SW	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
10	463m SE	RTDU-XSZC	River Terrace Deposits (undifferentiated) - Sand, Silt And Clay	Sand, Silt And Clay
11	473m W	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
12	482m W	RTDU-XSZC	River Terrace Deposits (undifferentiated) - Sand, Silt And Clay	Sand, Silt And Clay

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

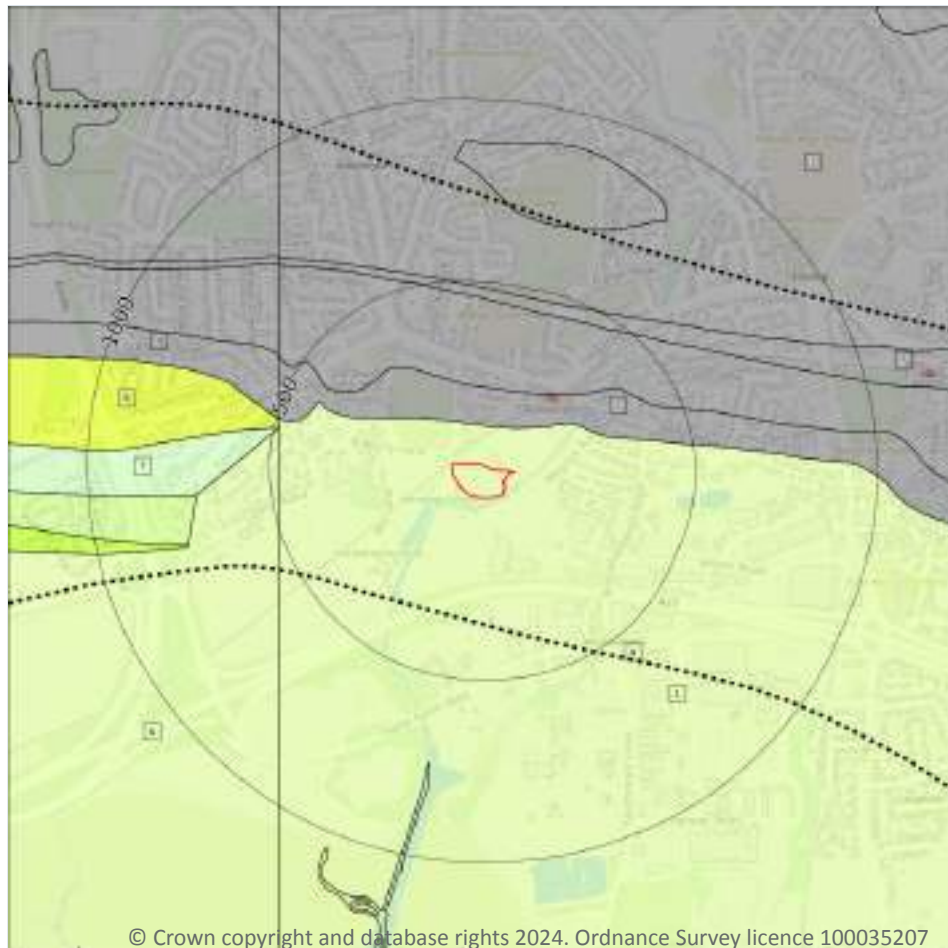
0

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



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

8

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 104](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LPCK-CHLK	Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (undifferentiated) - Chalk	Campanian Age - Turonian Age
2	107m N	LMBE-CLAY	Lambeth Group - Clay	Paleocene Epoch



ID	Location	LEX Code	Description	Rock age
3	212m N	LC-CLSISA	London Clay Formation - Clay, Silt And Sand	Eocene Epoch
5	441m N	BOSA-SANDU	Bognor Sand Member - Sand	Eocene Epoch
6	473m W	LPCK-CHLK	Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (undifferentiated) - Chalk	Campanian Age - Turonian Age
7	485m W	SPCH-CHLK	Spetisbury Chalk Member - Chalk	Campanian Age
8	485m W	PCK-CHLK	Portsdown Chalk Formation - Chalk	Campanian Age
9	491m W	LMBE-CLAY	Lambeth Group - Clay	Paleocene Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

1

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.

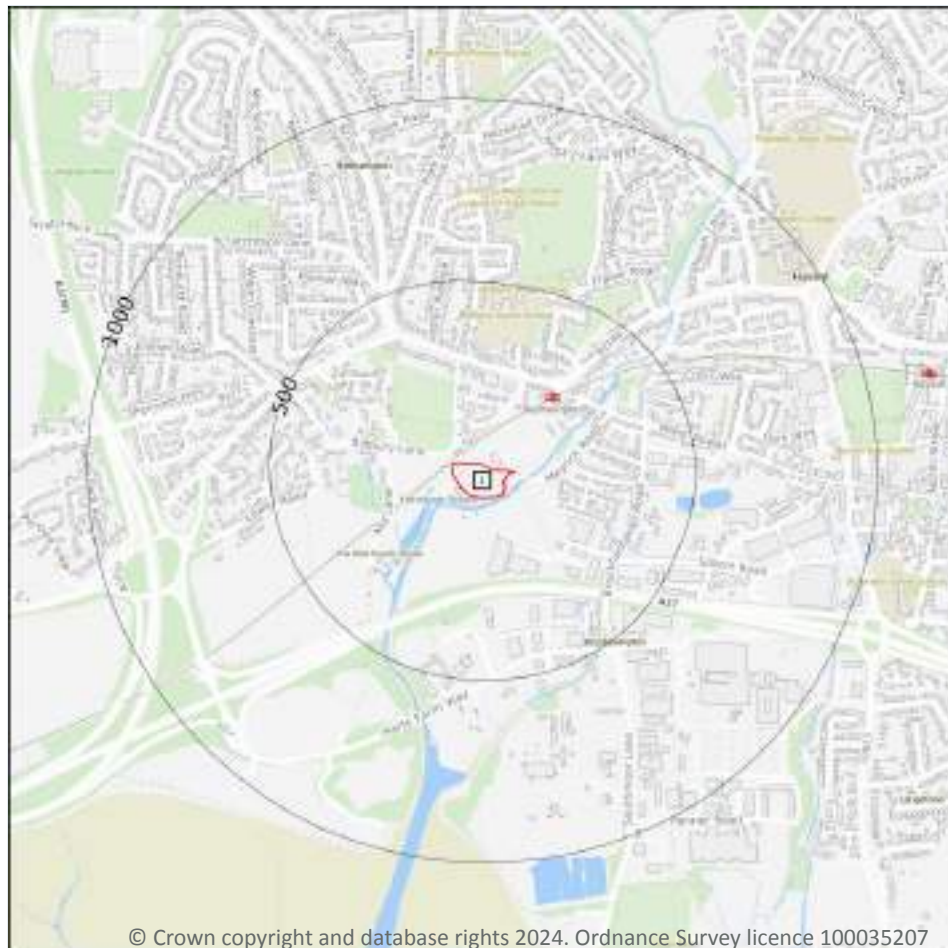
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 104](#) >

ID	Location	Category	Description
4	332m S	FOLD_AXIS	Axial plane trace of major anticline

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.

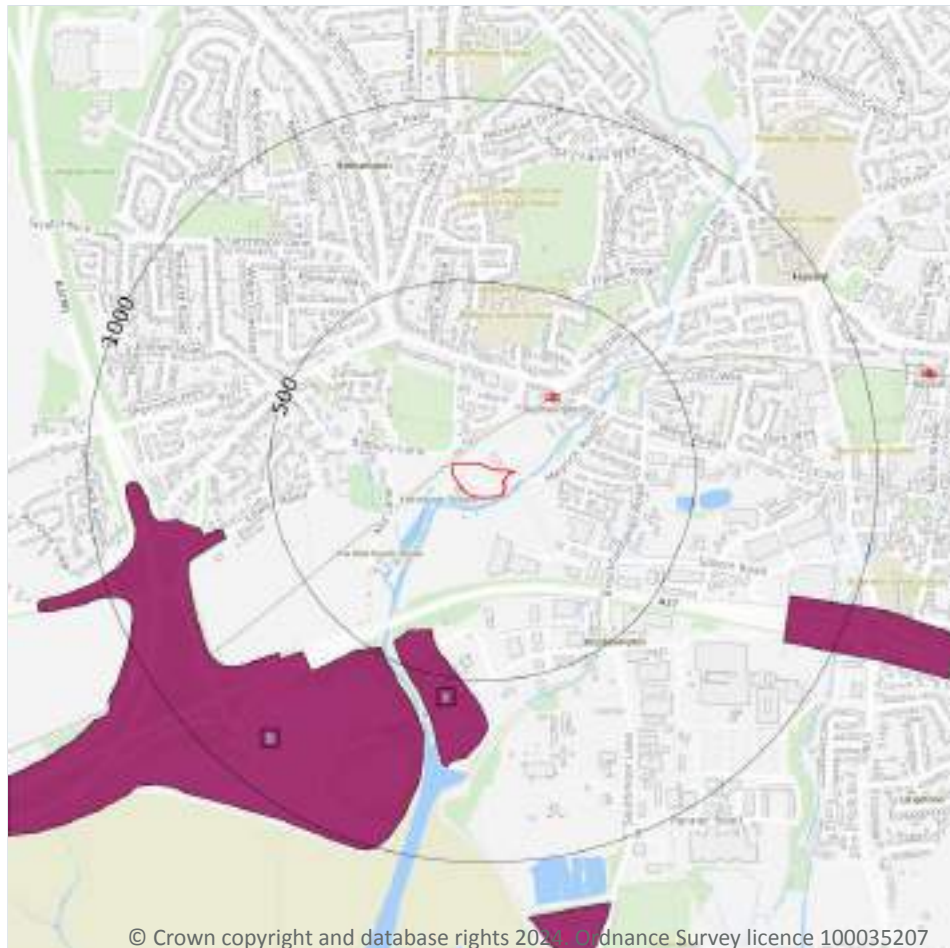
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 106](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW316_fareham_v4

This data is sourced from the British Geological Survey.



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



- Site Outline
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

2

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.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 107 >](#)

ID	Location	LEX Code	Description	Rock description
1	383m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	484m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

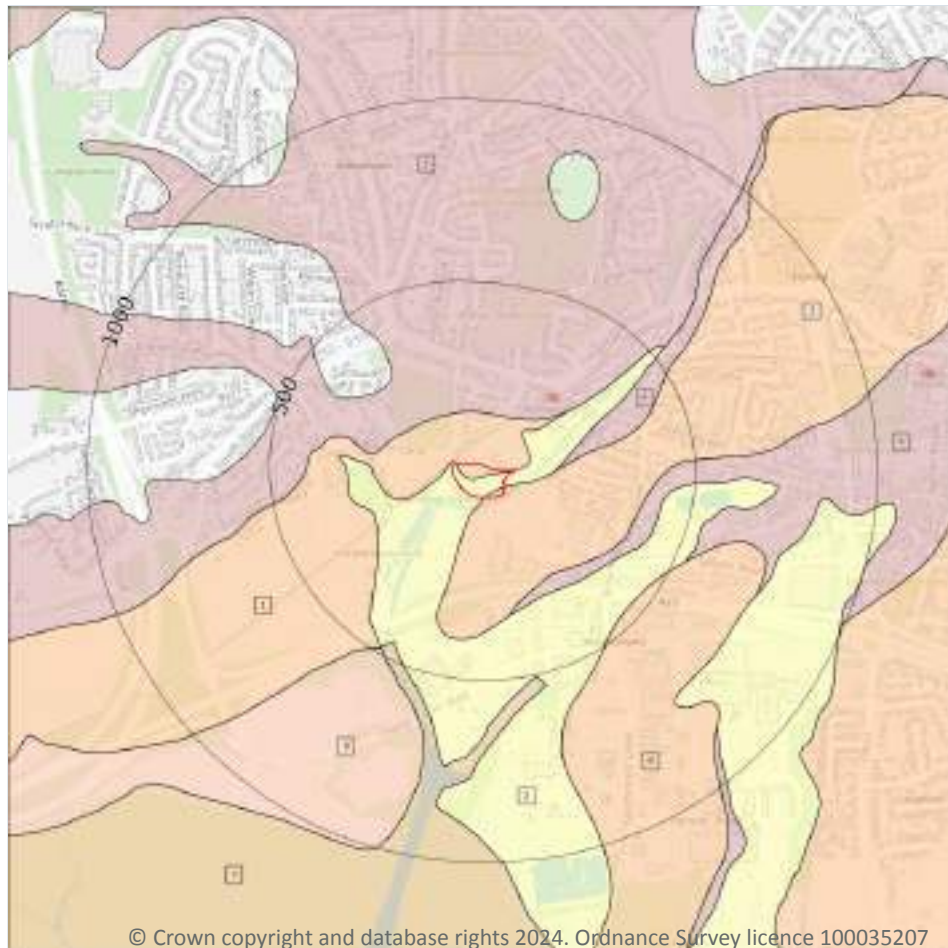
0

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



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— 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

9

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 109 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	RTDU-XSZC	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	SAND, SILT AND CLAY
2	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	On site	RTDU-XSZC	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	SAND, SILT AND CLAY
4	117m E	HEAD-XCV	HEAD	CLAY AND GRAVEL



ID	Location	LEX Code	Description	Rock description
5	136m NW	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
6	257m SE	HEAD-XCV	HEAD	CLAY AND GRAVEL
7	452m SW	BTFU-XCZSV	BEACH AND TIDAL FLAT DEPOSITS (UNDIFFERENTIATED)	CLAY, SILT, SAND AND GRAVEL
8	461m SE	RTDU-XSZC	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	SAND, SILT AND CLAY
9	484m SW	RMD-XSV	RAISED MARINE DEPOSITS	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	3
---------------------------	----------

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).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Very Low
On site	Intergranular	High	Low
On site	Intergranular	High	Low

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)

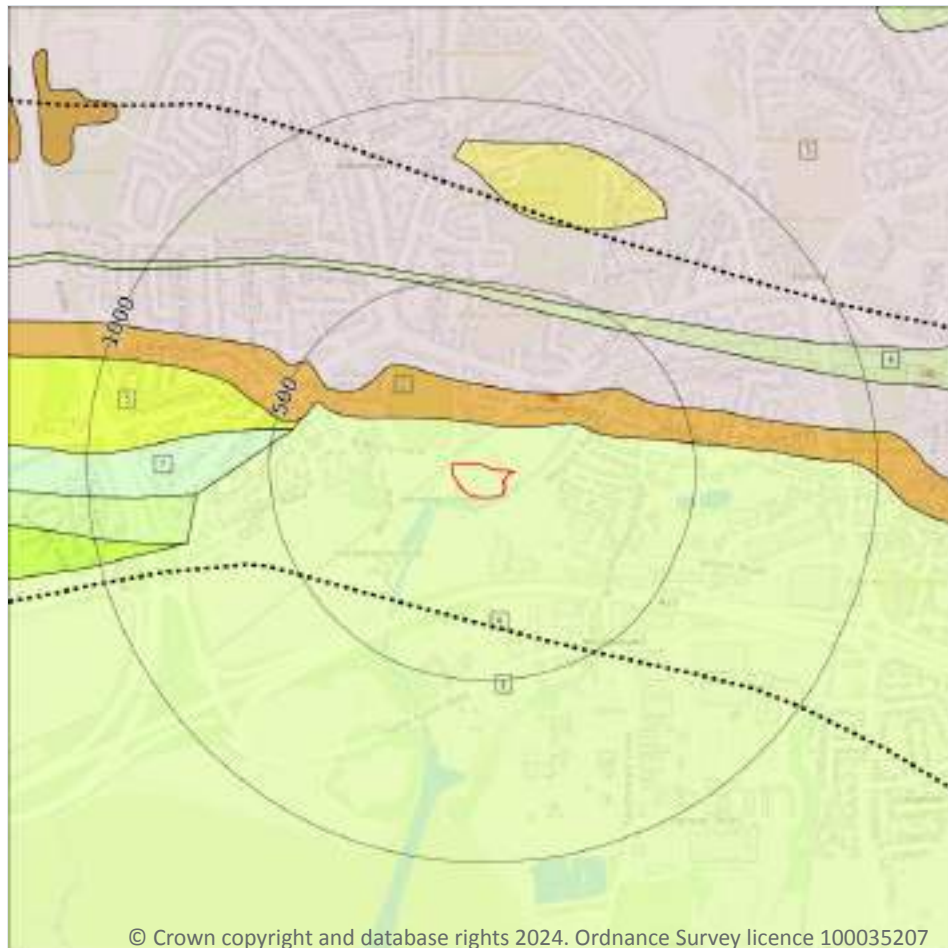
Records within 50m	0
---------------------------	----------

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



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— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

6

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 111](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LPCK-CHLK	LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION, NEWHAVEN CHALK FORMATION, CULVER CHALK FORMATION AND PORTSDOWN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
2	111m N	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN



ID	Location	LEX Code	Description	Rock age
3	215m N	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN
5	433m W	PCK-CHLK	PORTSDOWN CHALK FORMATION - CHALK	CAMPANIAN
6	445m N	BOSA-S	BOGNOR SAND MEMBER - SAND	-
7	448m W	SPCH-CHLK	SPETISBURY CHALK MEMBER - CHALK	CAMPANIAN

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	Very High	Very High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

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

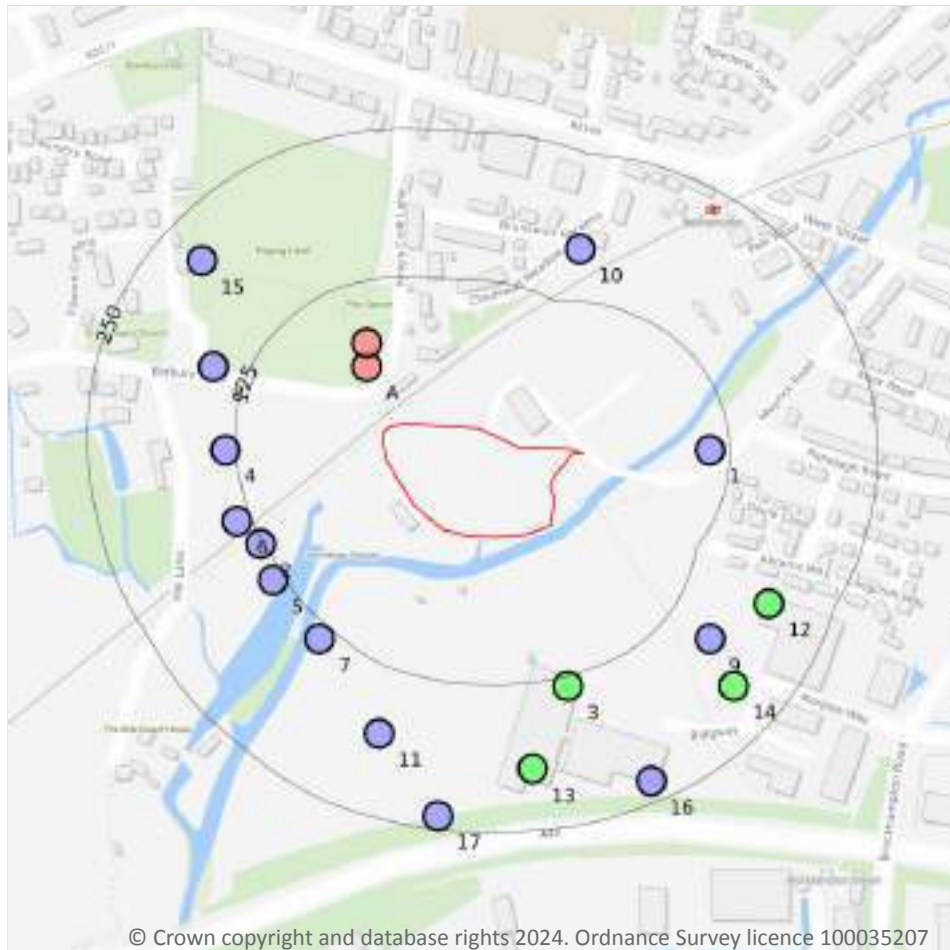
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 111](#) >

ID	Location	Category	Description
4	332m S	FOLD_AXIS	Axial plane trace of major anticline

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

16.1 BGS Boreholes

Records within 250m

19

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 113](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	54m NW	470460 106400	BEDHAMPTON	35.77	N	425629 ↗
A	73m NW	470460 106420	WATERWORKS 316/120 HAVANT BEDHAMPTON	35.96	N	425437 ↗
1	108m E	470750 106330	BARNCROFT WAY-BUDD'S FARM SEWER BH106	7.3	N	425459 ↗

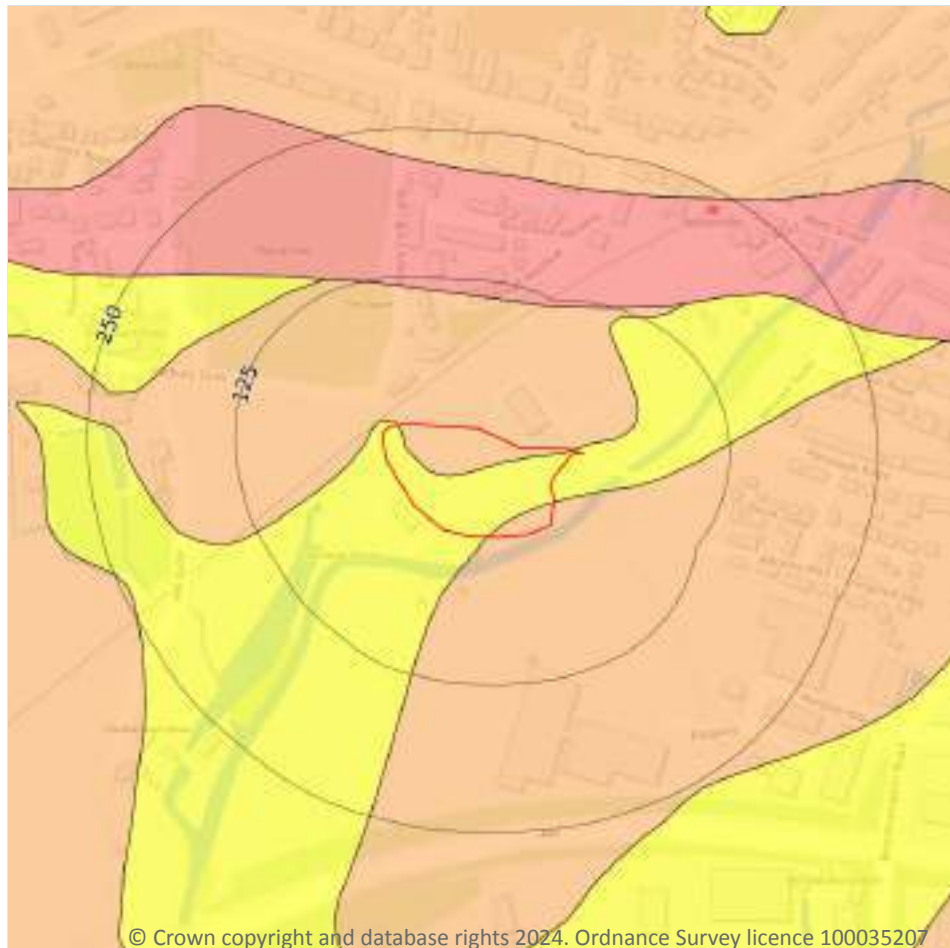


ID	Location	Grid reference	Name	Length	Confidential	Web link
2	128m W	470370 106250	CROOKHORN FARM BH79	6.1	N	425474 ↗
3	133m SE	470630 106130	BROCKHAMPTON ROAD DEVELOPMENT BH2	11.5	N	425527 ↗
4	134m W	470340 106330	CROOKHORN FARM BH77	3.04	N	425472 ↗
5	135m SW	470380 106220	CROOKHORN FARM BH80	4.57	N	425475 ↗
6	137m W	470350 106270	CROOKHORN FARM BH78	4.57	N	425473 ↗
7	138m SW	470420 106170	CROOKHORN FARM BH81	4.57	N	425476 ↗
8	154m NW	470330 106400	CROOKHORN FARM BH76	3.04	N	425471 ↗
9	166m SE	470750 106170	BARNCROFT WAY-BUDDS FARM SEWER BH110	6.7	N	425460 ↗
10	170m NE	470640 106500	BARNCROFT WAY-BUDDS FARM SEWER BH108	4.87	N	425458 ↗
11	181m S	470470 106090	CROOKHORN FARM BH82	4.57	N	425477 ↗
12	196m SE	470800 106200	BROCKHAMPTON ROAD DEVELOPMENT BH7	12.5	N	425532 ↗
13	198m S	470600 106060	BROCKHAMPTON ROAD DEVELOPMENT BH1	20.0	N	425526 ↗
14	206m SE	470770 106130	BROCKHAMPTON ROAD DEVELOPMENT BH4	12.5	N	425529 ↗
15	212m NW	470320 106490	CROOKHORN FARM BH75	4.57	N	425470 ↗
16	232m SE	470700 106050	BROCKHAMPTON ROAD DEVELOPMENT BH3	7.5	N	425528 ↗
17	238m S	470520 106020	CROOKHORN FARM BH83	6.1	N	425478 ↗

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

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17.1 Shrink swell clays

Records within 50m

2

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).

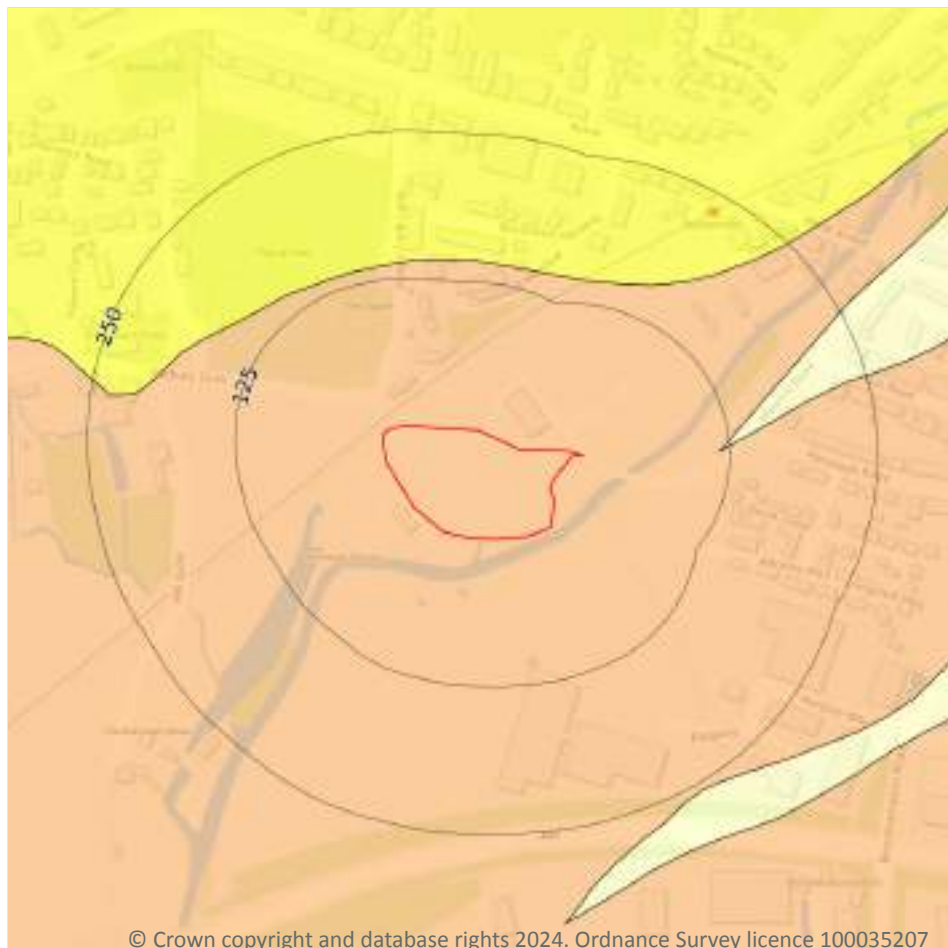
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 115](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

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.

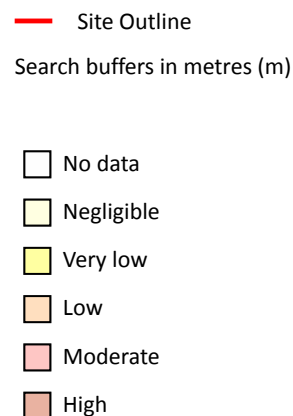
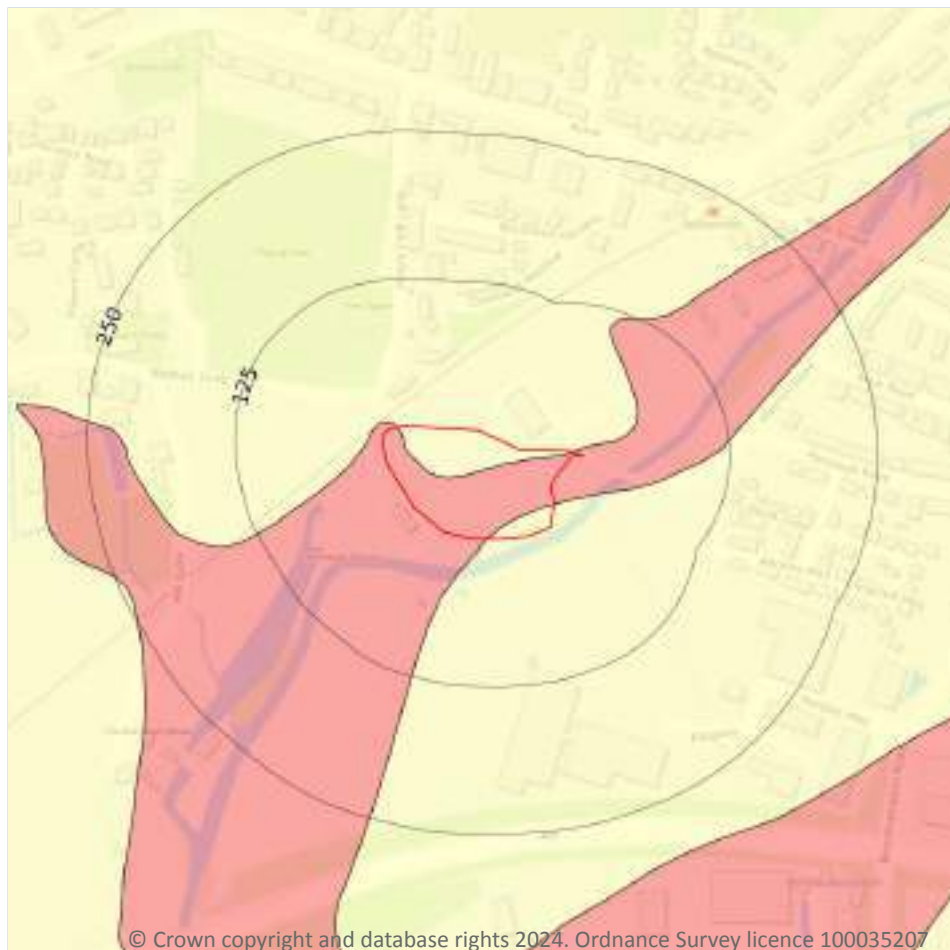
Features are displayed on the Natural ground subsidence - Running sands map on [page 116](#) >

Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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17.3 Compressible deposits

Records within 50m

2

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 117 >](#)

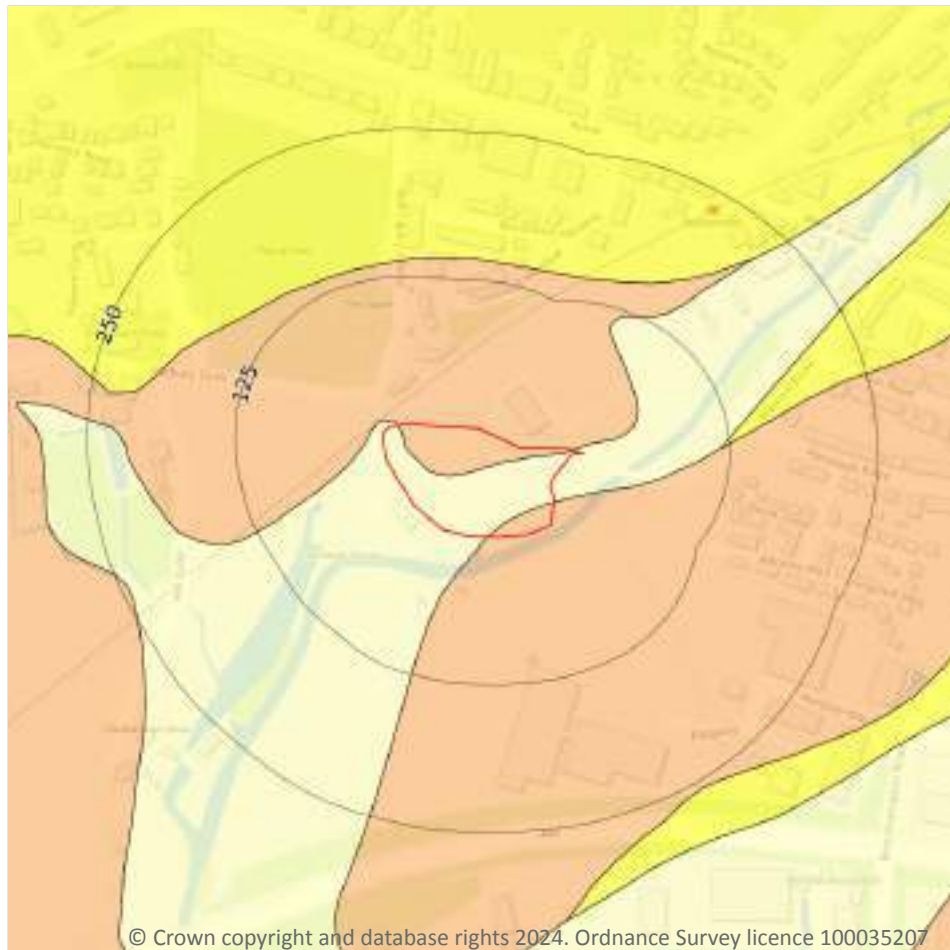
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

17.4 Collapsible deposits

Records within 50m

2

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.

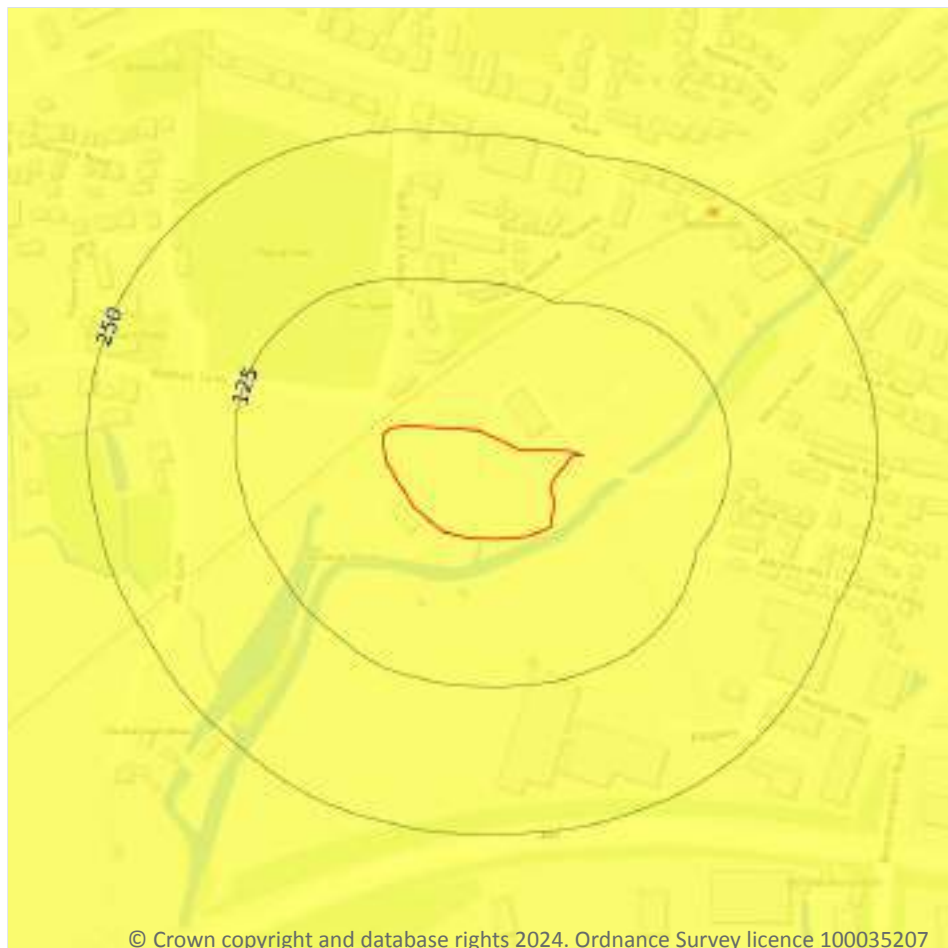
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 119 >](#)

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Low	Deposits with potential to collapse when loaded and saturated are possibly present in places.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

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.

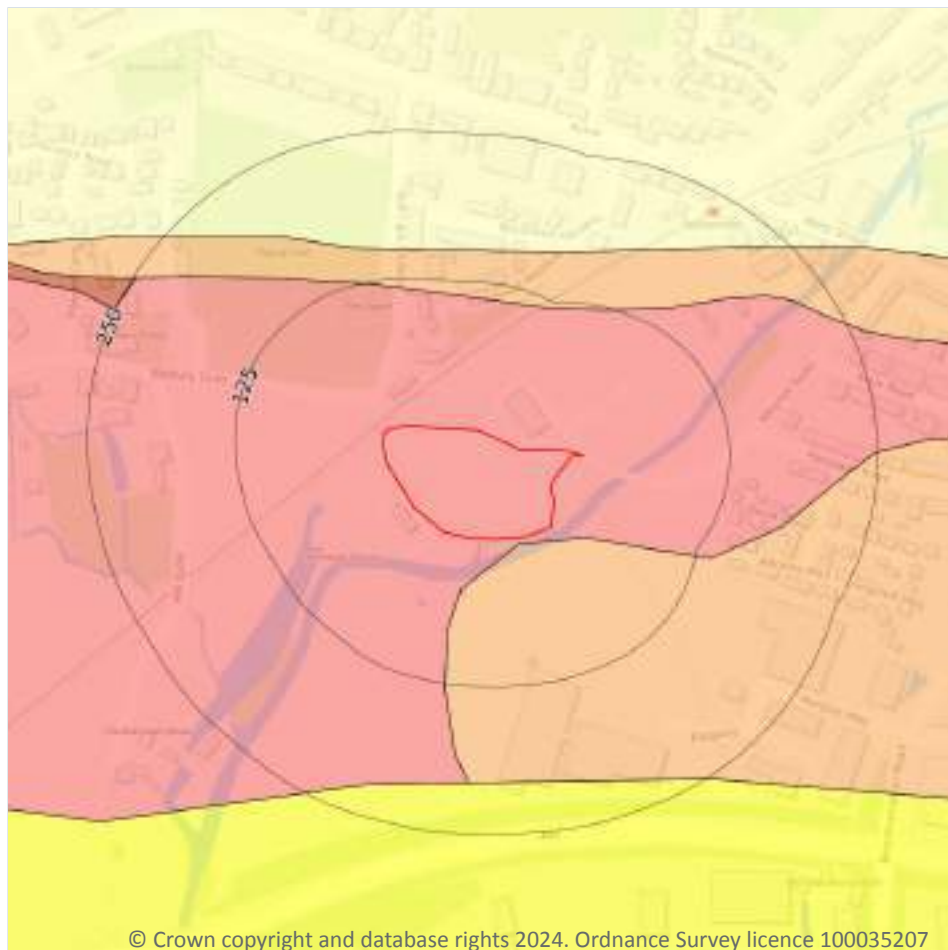
Features are displayed on the Natural ground subsidence - Landslides map on [page 120](#) >

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



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

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17.6 Ground dissolution of soluble rocks

Records within 50m

2

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 121](#) >

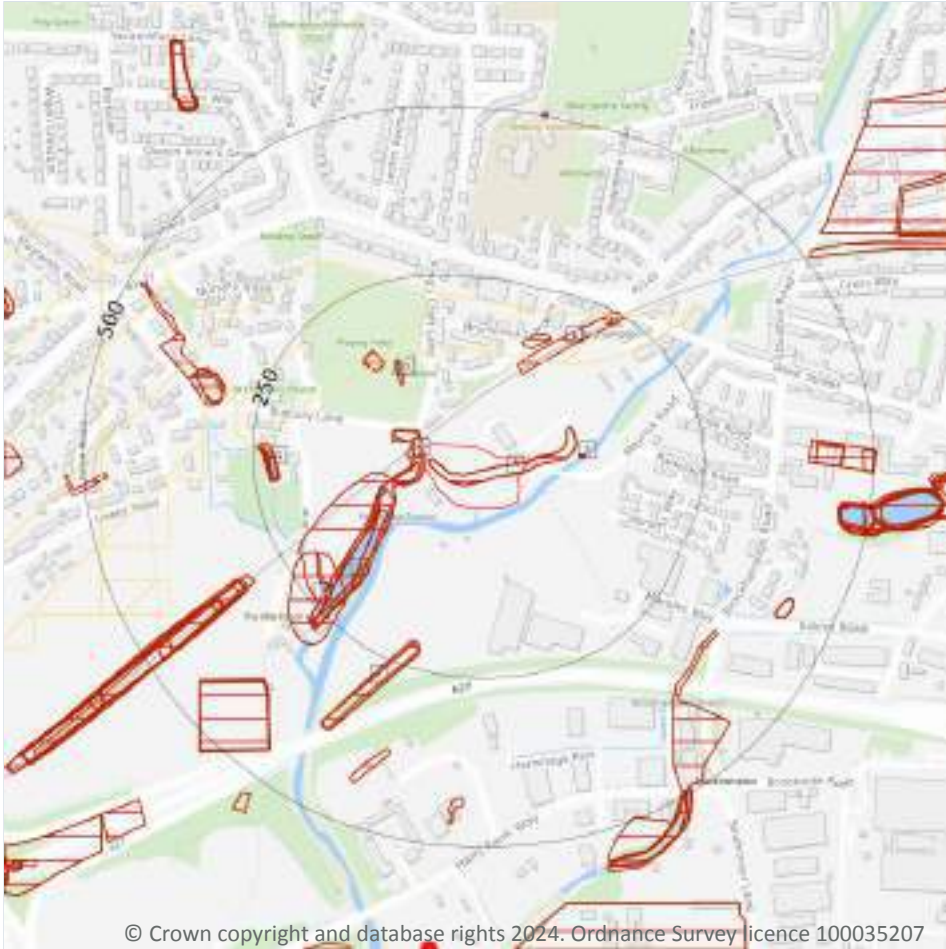
Location	Hazard rating	Details
On site	Moderate	Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.

Location	Hazard rating	Details
6m SE	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.

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

33

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 123](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Ponds	1963	1:10560
A	On site	Reservoirs	1991	1:10000
A	On site	Reservoirs	1973	1:10000
B	On site	Water Body	1898	1:10560
C	2m W	Water Body	1866	1:10560
C	8m W	Pond	1963	1:10560
C	8m W	Pond	1991	1:10000
C	8m W	Pond	1973	1:10000
C	18m NW	Pond	1895	1:10560
B	53m W	Water Body	1938	1:10560
B	63m W	Water Body	1866	1:10560
1	65m E	Unspecified Hole	1931	1:10560
B	70m W	Water Body	1963	1:10560
B	70m W	Water Body	1991	1:10000
B	70m W	Water Body	1973	1:10000
B	82m SW	Water Body	1931	1:10560
D	97m NW	Pond	1866	1:10560
E	124m NE	Cuttings	1866	1:10560
D	132m NW	Pond	1938	1:10560
D	132m NW	Pond	1930	1:10560
D	132m NW	Pond	1907	1:10560
E	164m NE	Pond	1866	1:10560
3	189m SW	Water Body	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	211m S	Unspecified Heap	1963	1:10560
F	212m S	Unspecified Heap	1907	1:10560
F	212m S	Unspecified Heap	1938	1:10560
F	212m S	Unspecified Heap	1931	1:10560
G	213m W	Pond	1898	1:10560
G	214m W	Pond	1895	1:10560
G	214m W	Pond	1931	1:10560
G	216m W	Pond	1963	1:10560
G	216m W	Pond	1991	1:10000
G	216m W	Pond	1973	1:10000

This 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 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

3

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).

Features are displayed on the Mining and ground workings map on [page 123](#) >

ID	Location	Name	Commodity	Class	Likelihood
2	136m NW	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
7	414m W	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
10	473m W	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

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
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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



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- Mining cavities
- Reported recent incidents
- Historical incidents
- BGS karst database (Point)
- BGS karst database (Line)
- BGS karst database (Area)

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**7**

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.

Features are displayed on the Ground cavities and sinkholes map on [page 129 >](#)

ID	Location	Type	Date of mapping
A	42m E	Hole	1951
A	63m E	Hole	1969
A	63m E	Hole	1973
A	63m E	Hole	1959
A	65m E	Unspecified Hole	1931



ID	Location	Type	Date of mapping
A	80m E	Hole	1932
A	80m E	Hole	1939

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.

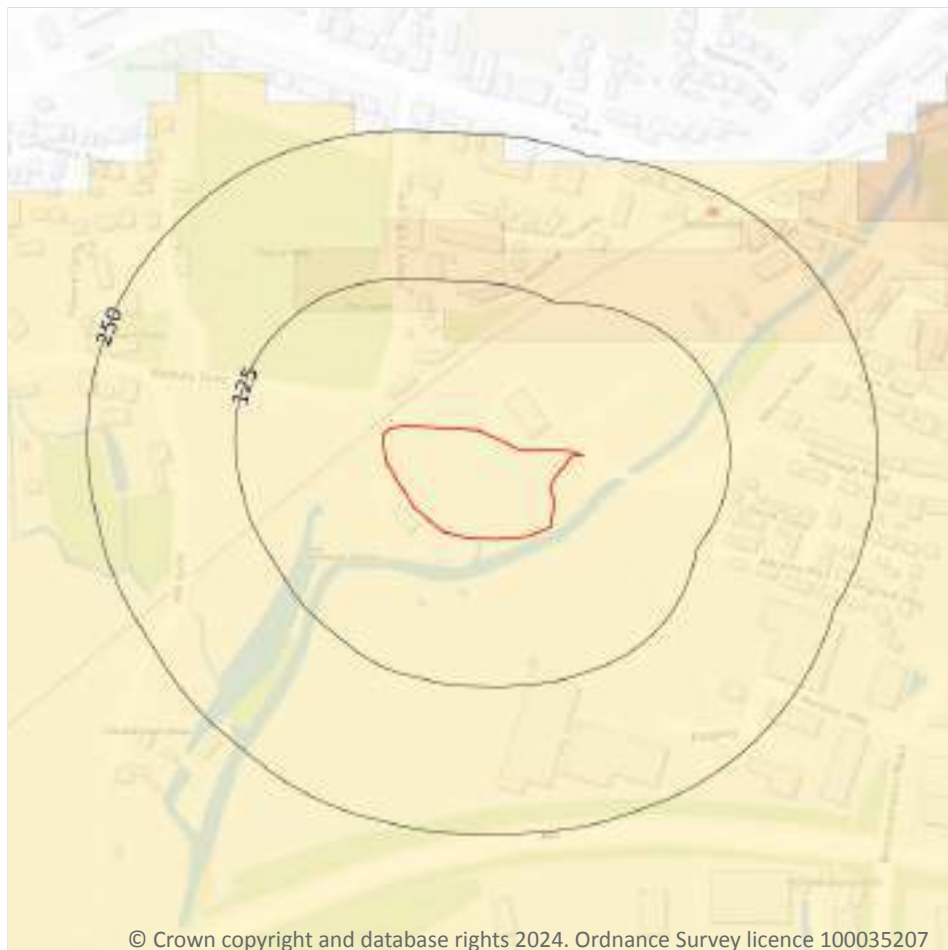
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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



- Site Outline**
- Search buffers in metres (m)**
- Greater than 30%
 - Between 10% and 30%
 - Between 5% and 10%
 - Between 3% and 5%
 - Between 1% and 3%
 - Less than 1%

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 132](#) >

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	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

5

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	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

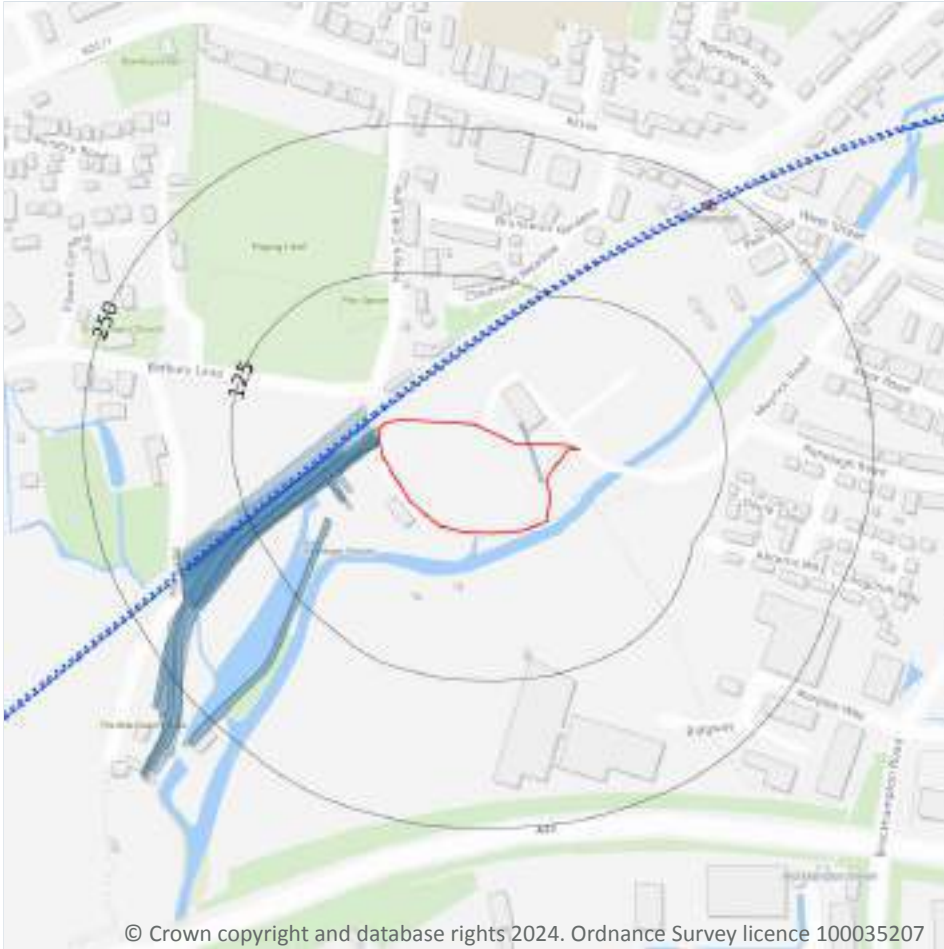
0

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



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

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

21

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.

Features are displayed on the Railway infrastructure and projects map on [page 135 >](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1932	2500
1m W	Railway Sidings	1931	10560
1m W	Railway Sidings	1938	10560
2m W	Railway Sidings	1909	2500
2m W	Railway Sidings	1931	10560
2m W	Railway Sidings	1907	10560
2m W	Railway Sidings	1973	1250
2m W	Railway Sidings	1959	1250
3m W	Railway Sidings	1960	2500
3m W	Railway Sidings	1953	2500
3m W	Railway Sidings	1951	2500
4m W	Railway Sidings	1932	2500
4m W	Railway Sidings	1939	2500
6m W	Railway Sidings	1963	10560
29m W	Railway Sidings	1895	10560
30m W	Railway Sidings	1869	2500
34m W	Railway Sidings	1898	10560



Location	Land Use	Year of mapping	Mapping scale
35m W	Railway Sidings	1868	2500
35m W	Railway Sidings	1897	2500
67m W	Railway Sidings	1897	2500
67m W	Railway Sidings	1909	2500

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	10
----------------------------	-----------

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on [page 135 >](#)

Location	Name	Type
10m NW	West Coastway Line	rail
10m NW	Not given	Multi Track
10m NW	West Coastway Line	rail
13m NW	Not given	Multi Track
13m NW	West Coastway Line	rail



Location	Name	Type
13m NW	West Coastway Line	rail
119m N	Not given	Multi Track
155m NE	Not given	Multi Track
214m W	Not given	Multi Track
228m W	Not given	Multi Track

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.



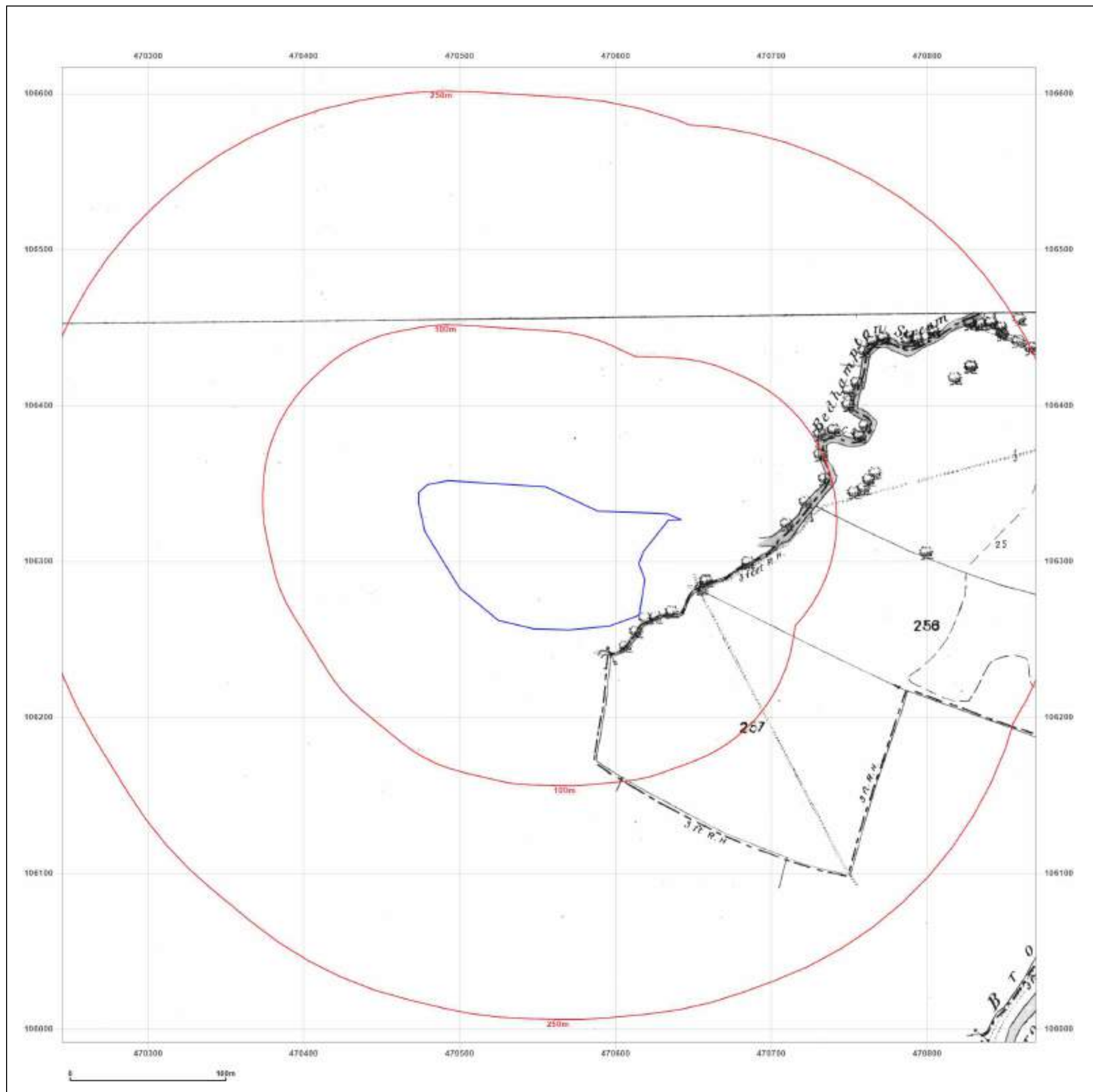
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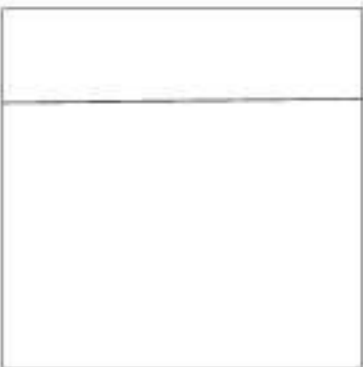
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Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series
Map date: 1867-1868
Scale: 1:2,500
Printed at: 1:2,500



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Surveyed 1867
Revised 1867
Edition N/A
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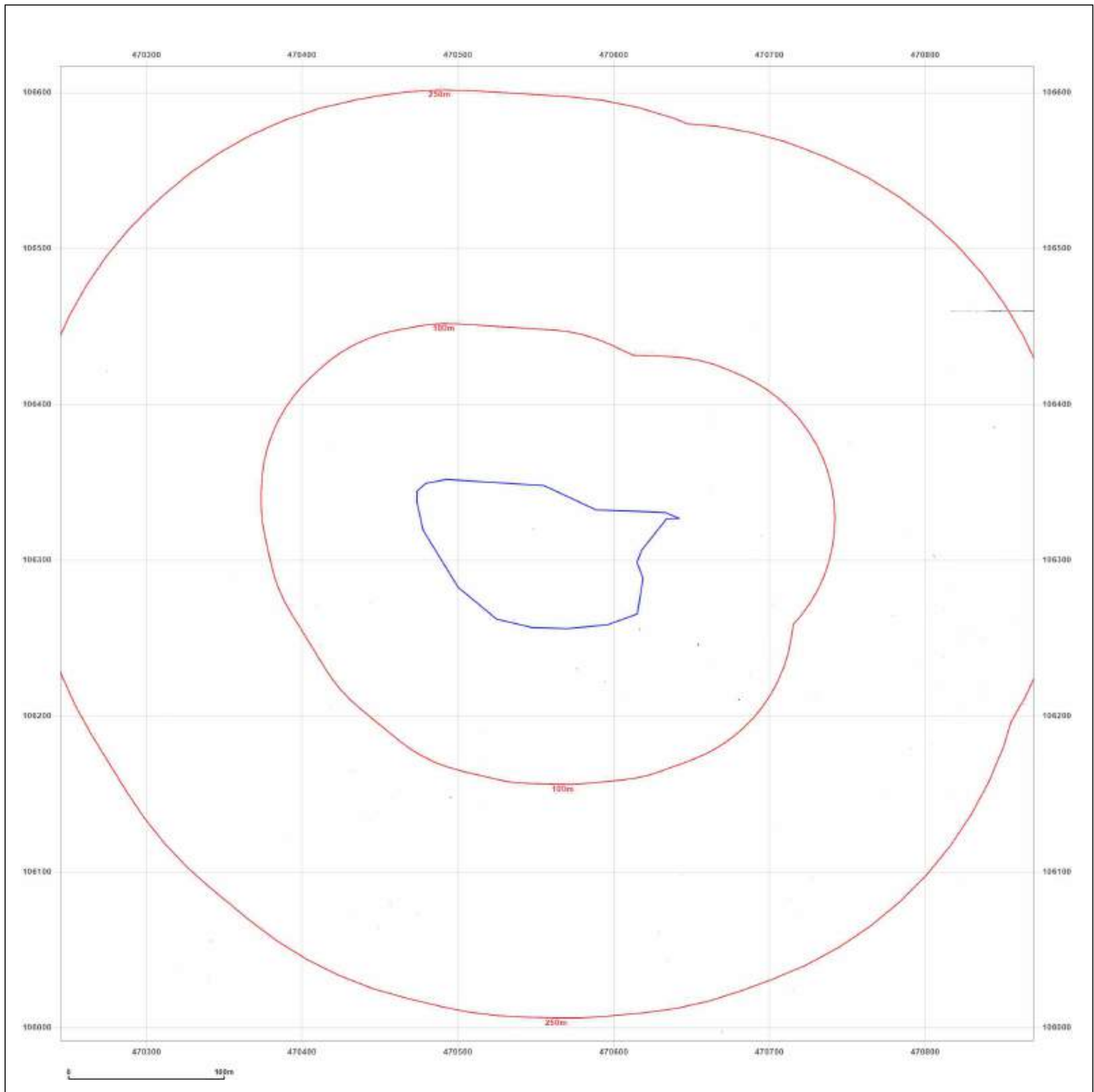


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Site Details:

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Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series

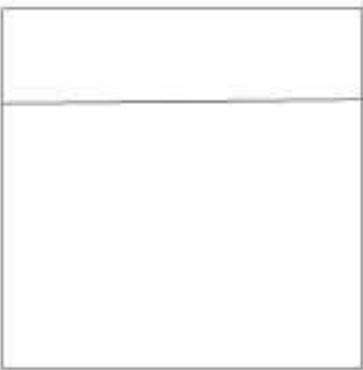
Map date: 1869

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1889
Revised 1889
Edition N/A
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Site Details:

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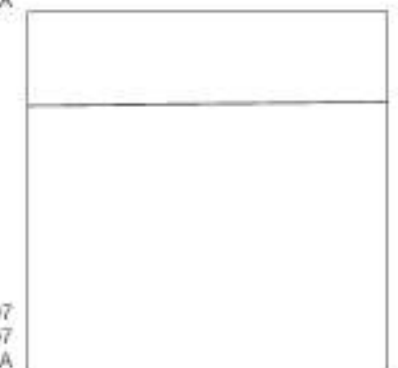
Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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Surveyed 1897
Revised 1897
Edition N/A
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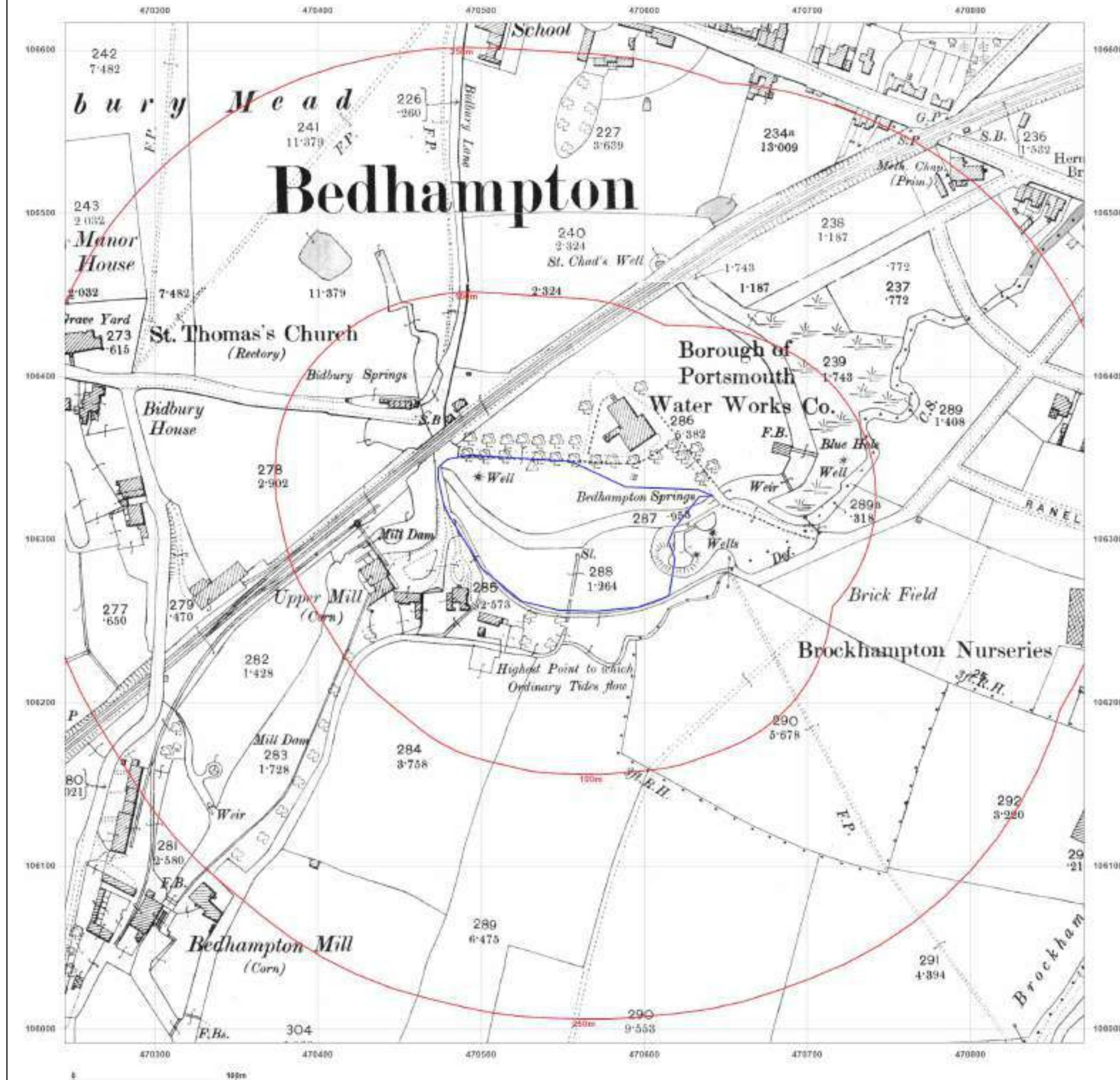


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Site Details:

unspecified

Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



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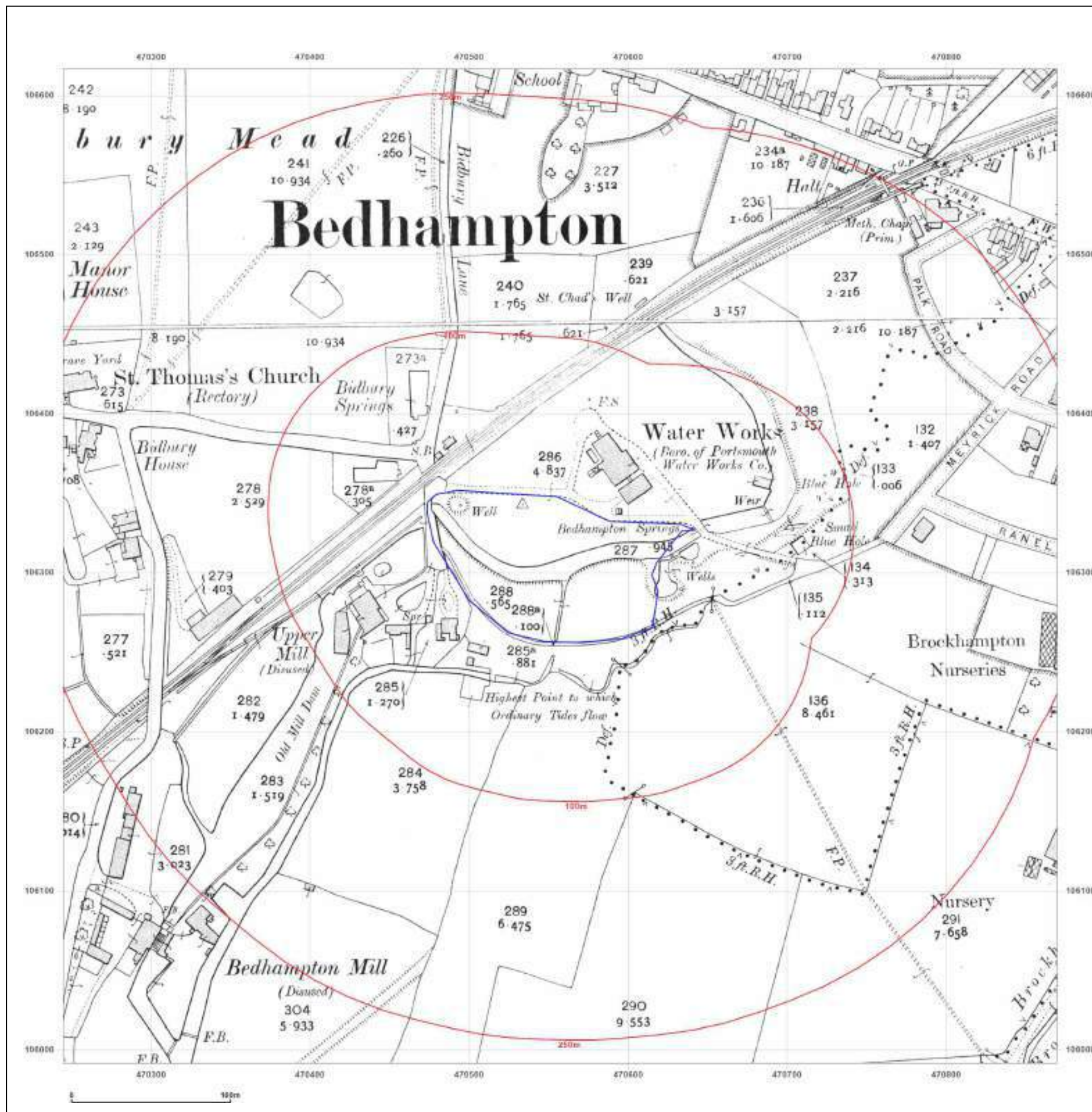


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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1932

Scale: 1:2,500

Printed at: 1:2,500



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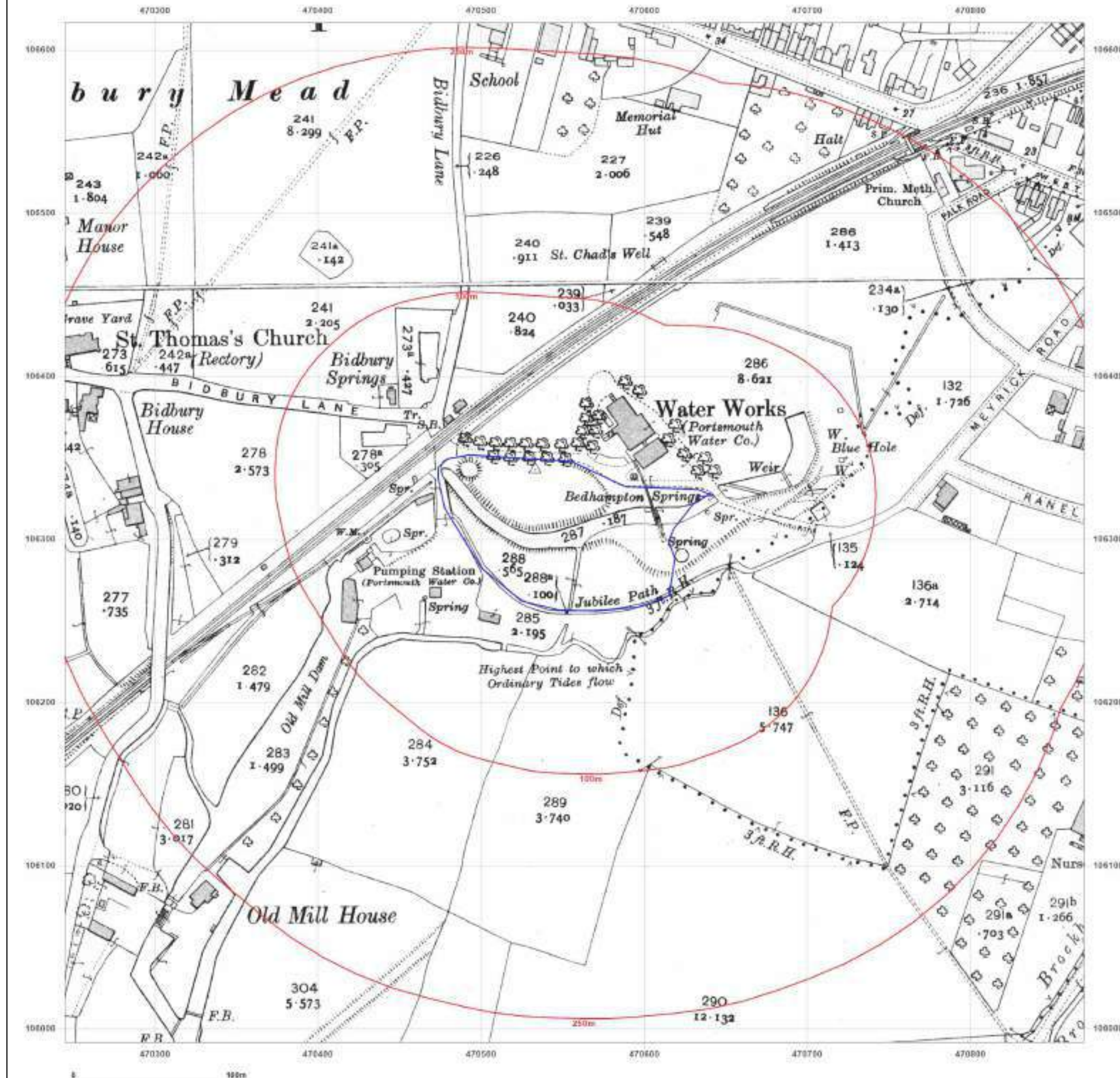


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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1937-1939

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1939
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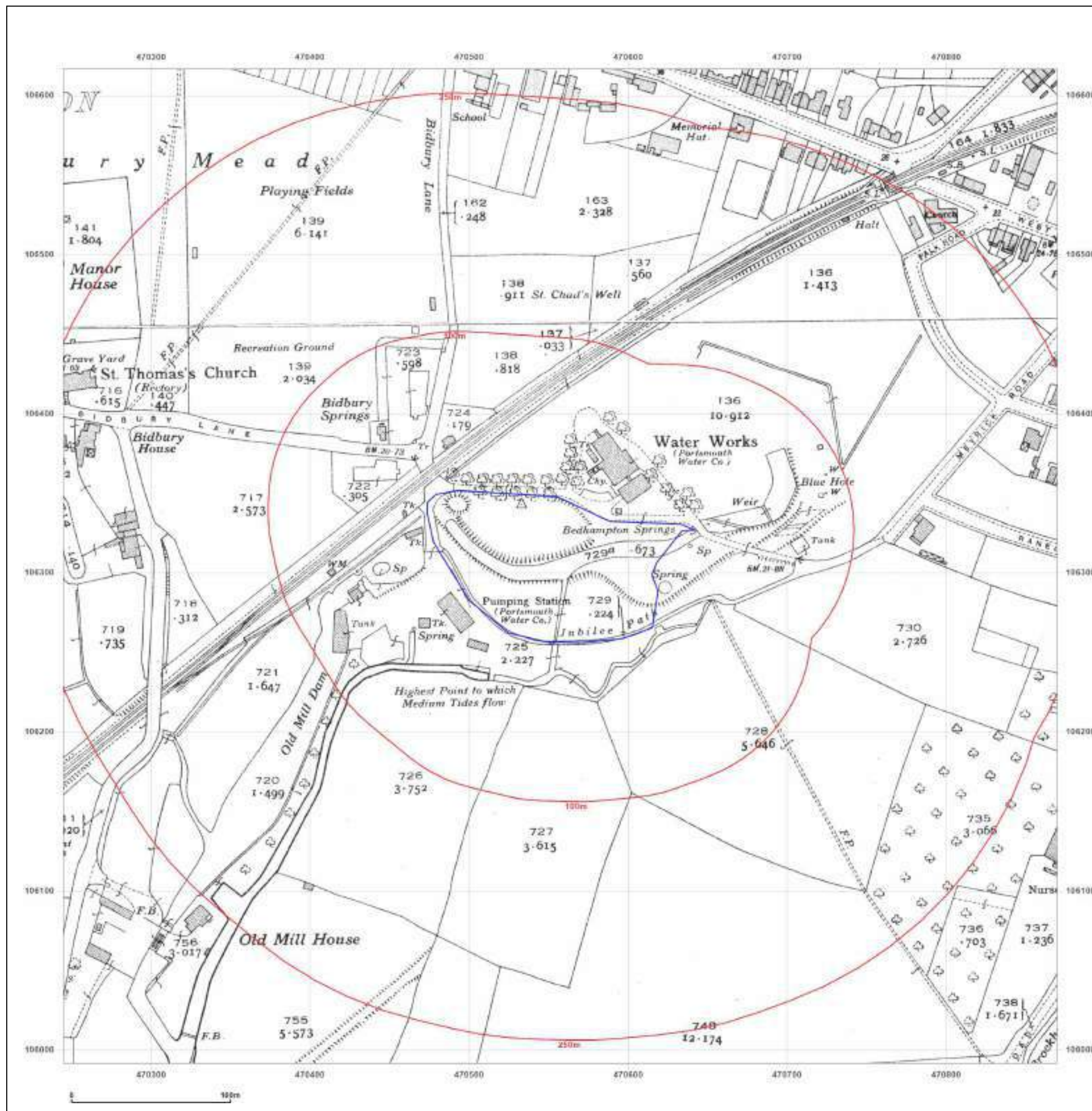


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Site Details:

unspecified

Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: National Grid

Map date: 1951

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1951
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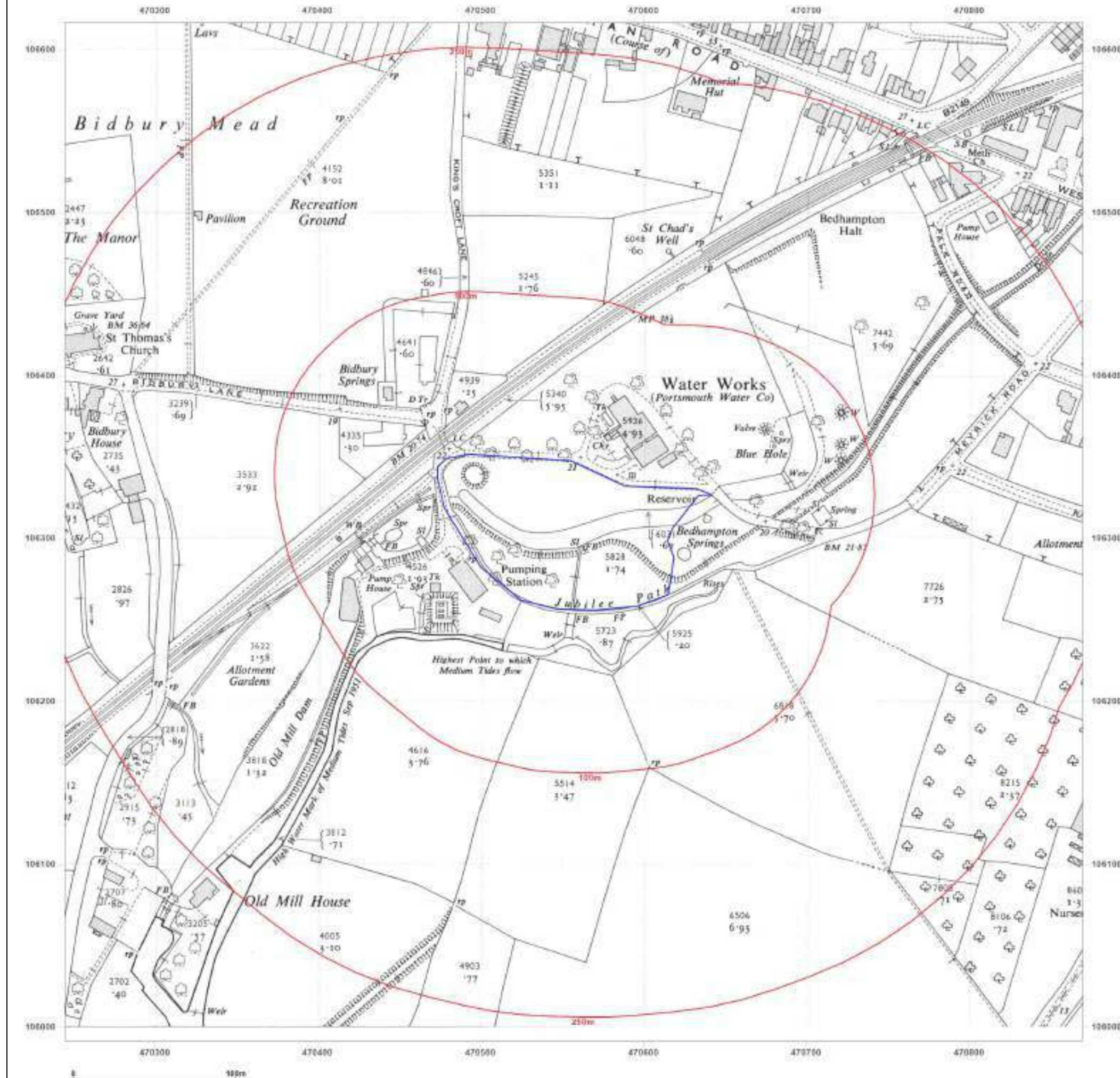


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Site Details:

unspecified

Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: National Grid

Map date: 1953

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1951
Revised 1953
Edition N/A
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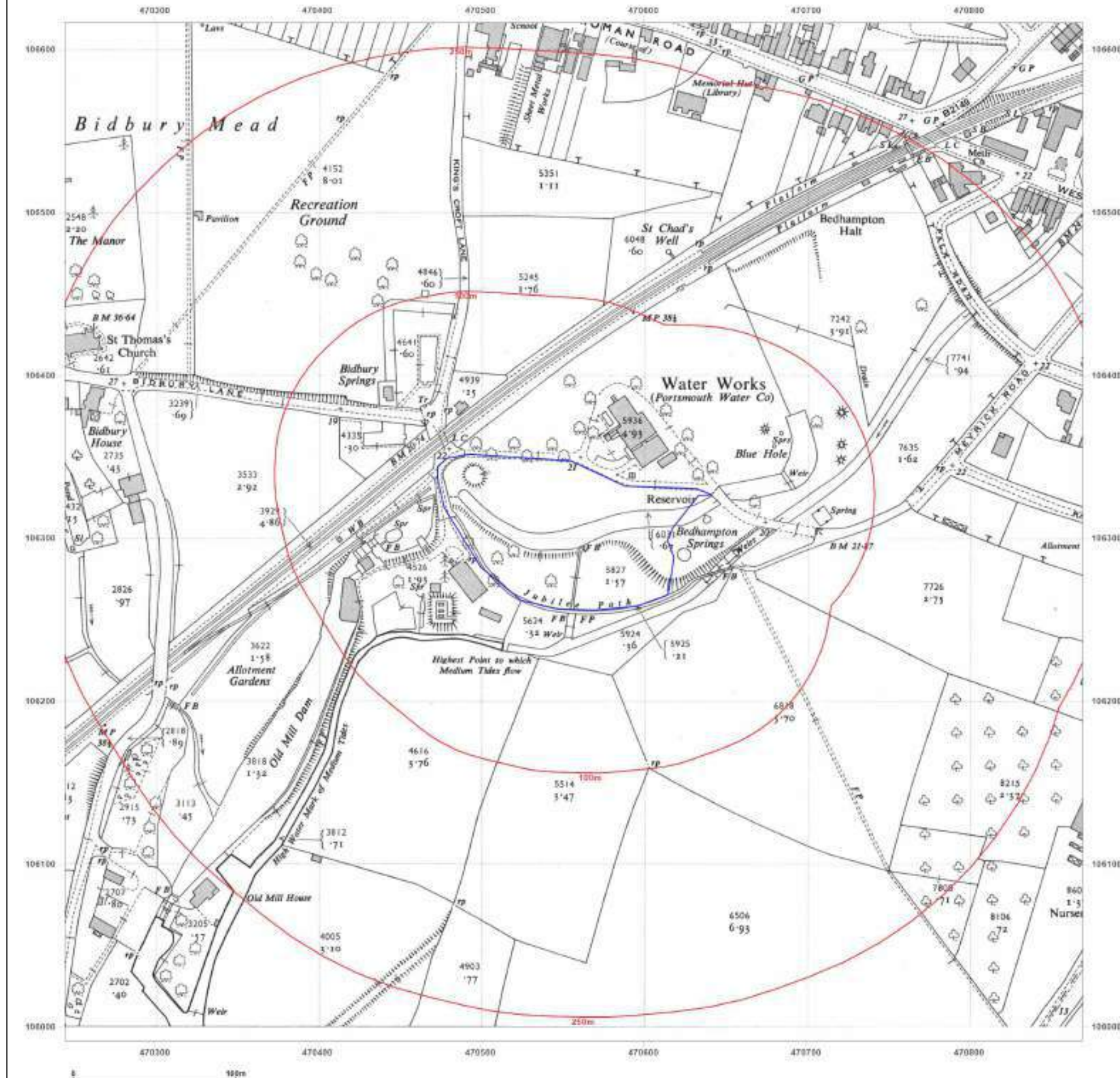


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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: National Grid

Map date: 1959

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1957
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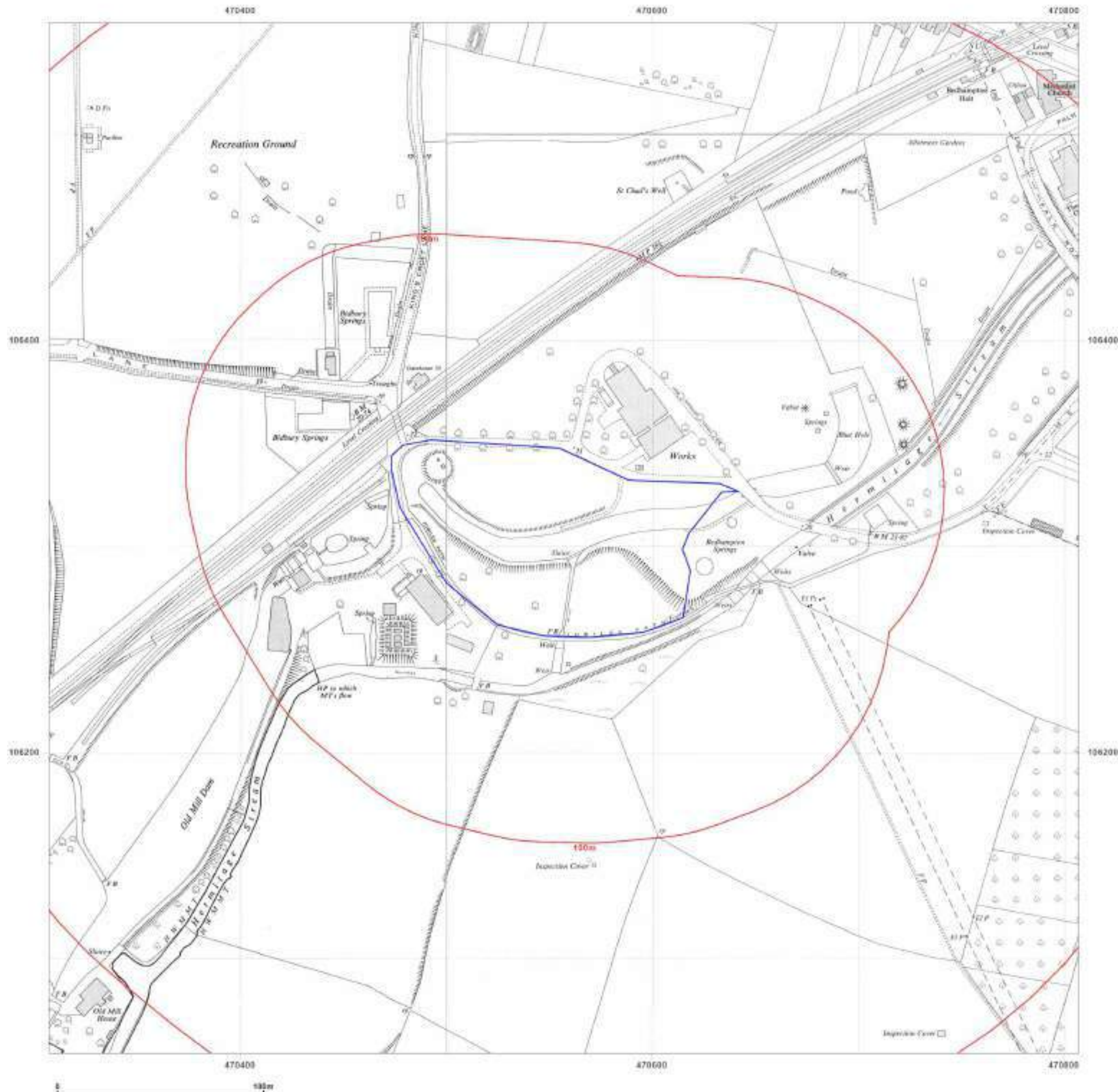


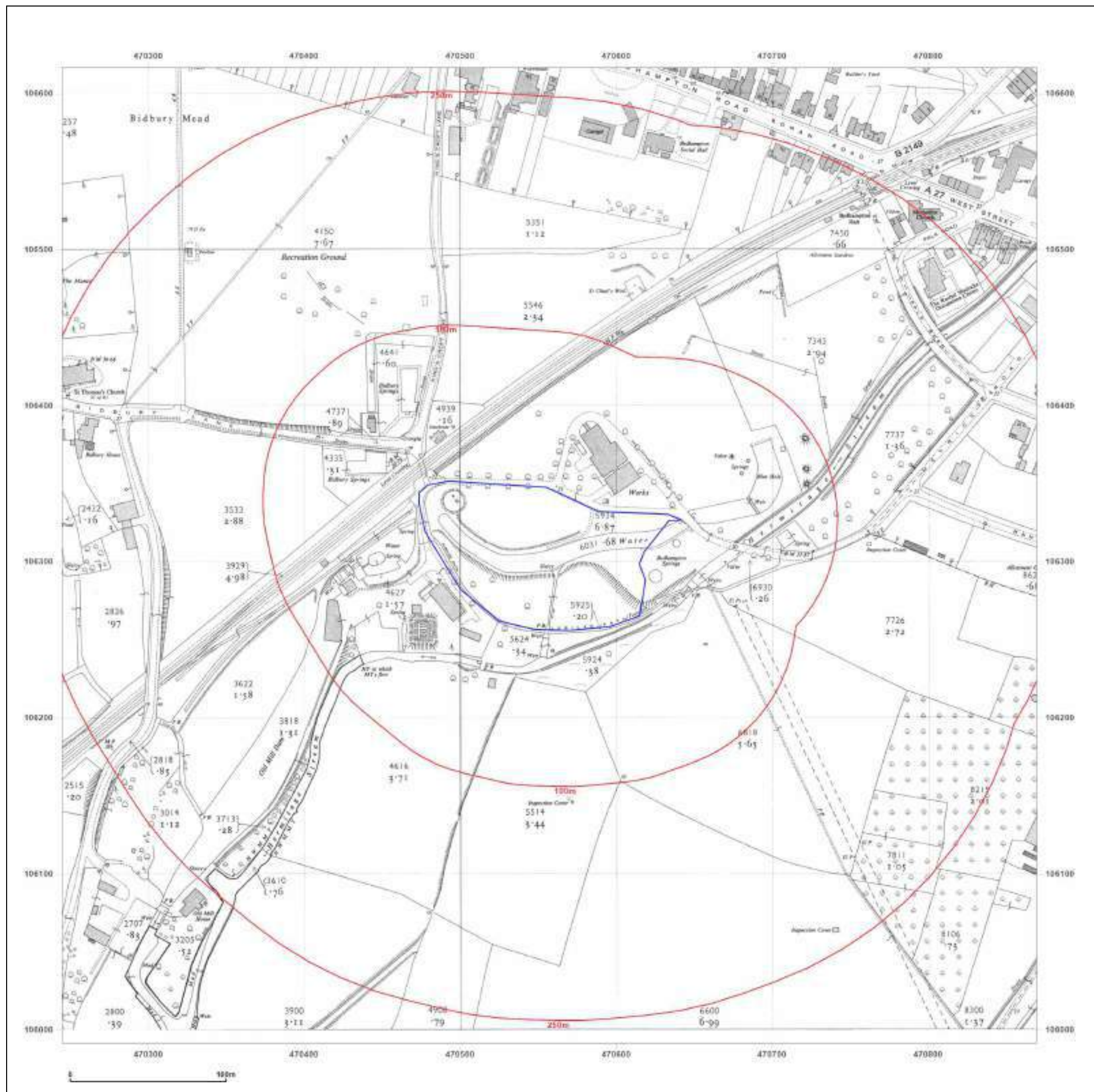
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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: National Grid

Map date: 1961

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1960
Revised 1960
Edition 1961
Copyright 1961
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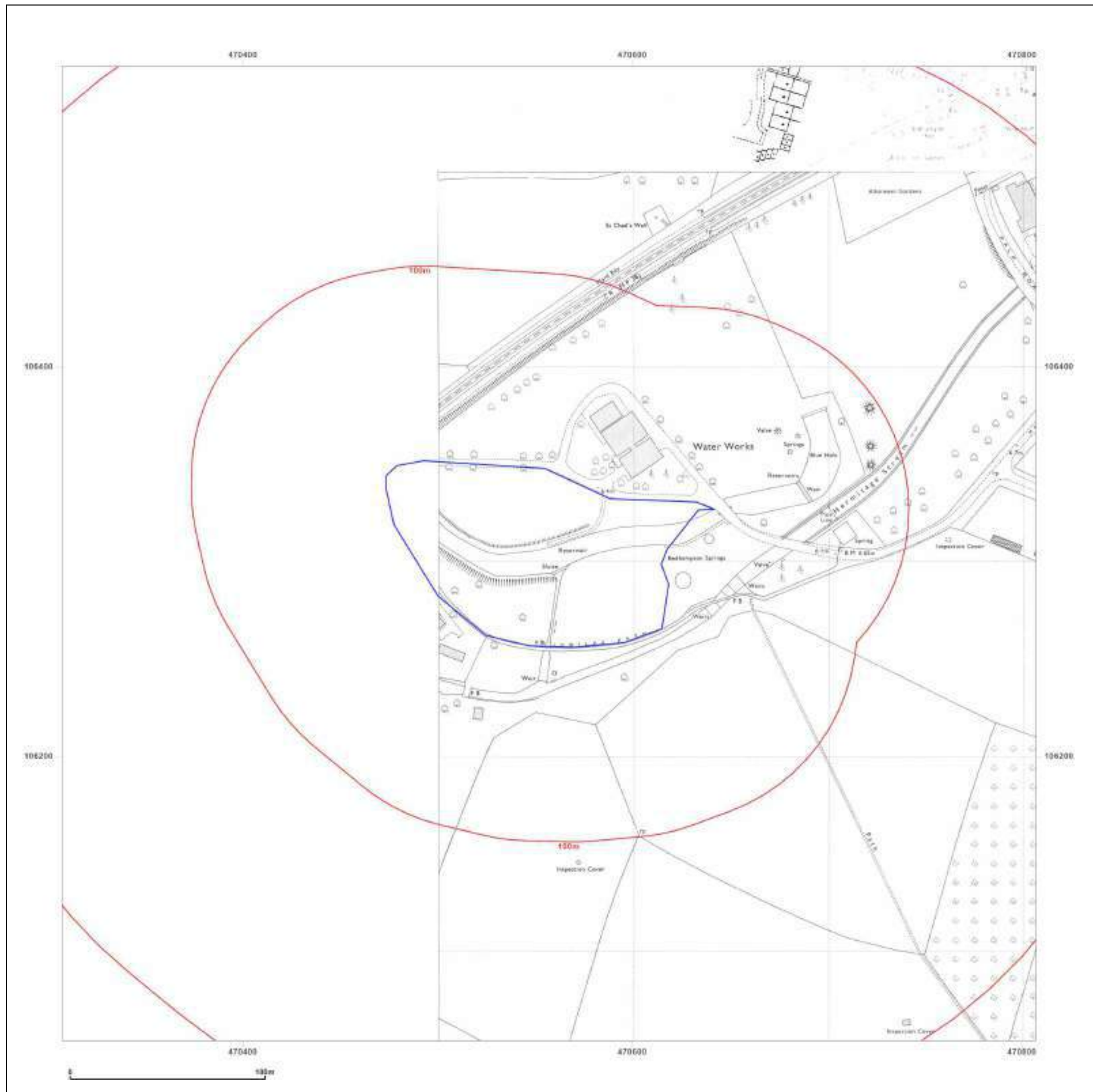


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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: National Grid
Map date: 1973-1978
Scale: 1:1,250
Printed at: 1:2,000

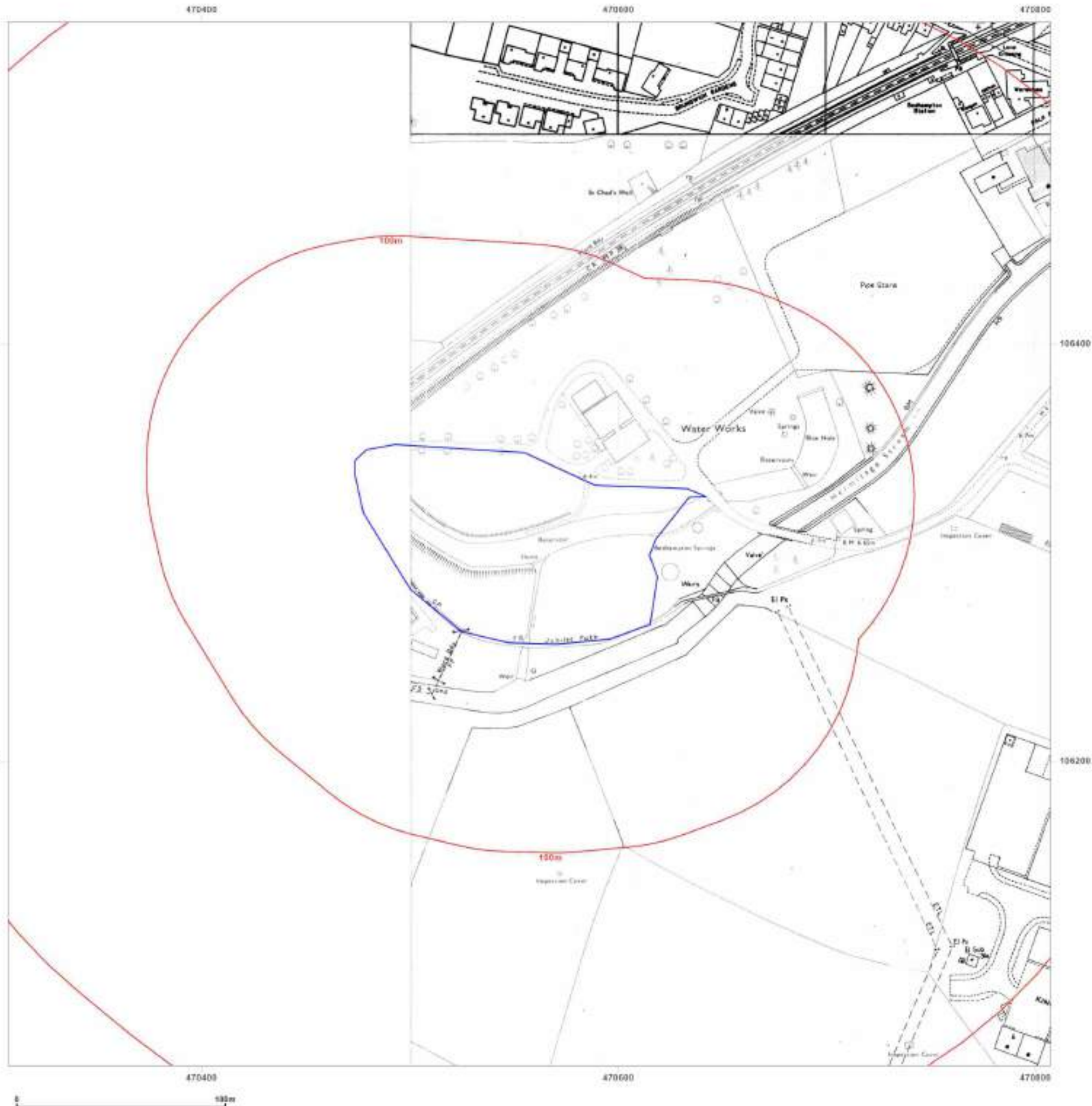
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
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Surveyed 1958
Revised 1972
Edition N/A
Copyright 1973
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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: National Grid

Map date: 1987-1991

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1958
Revised 1987
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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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Revised N/A
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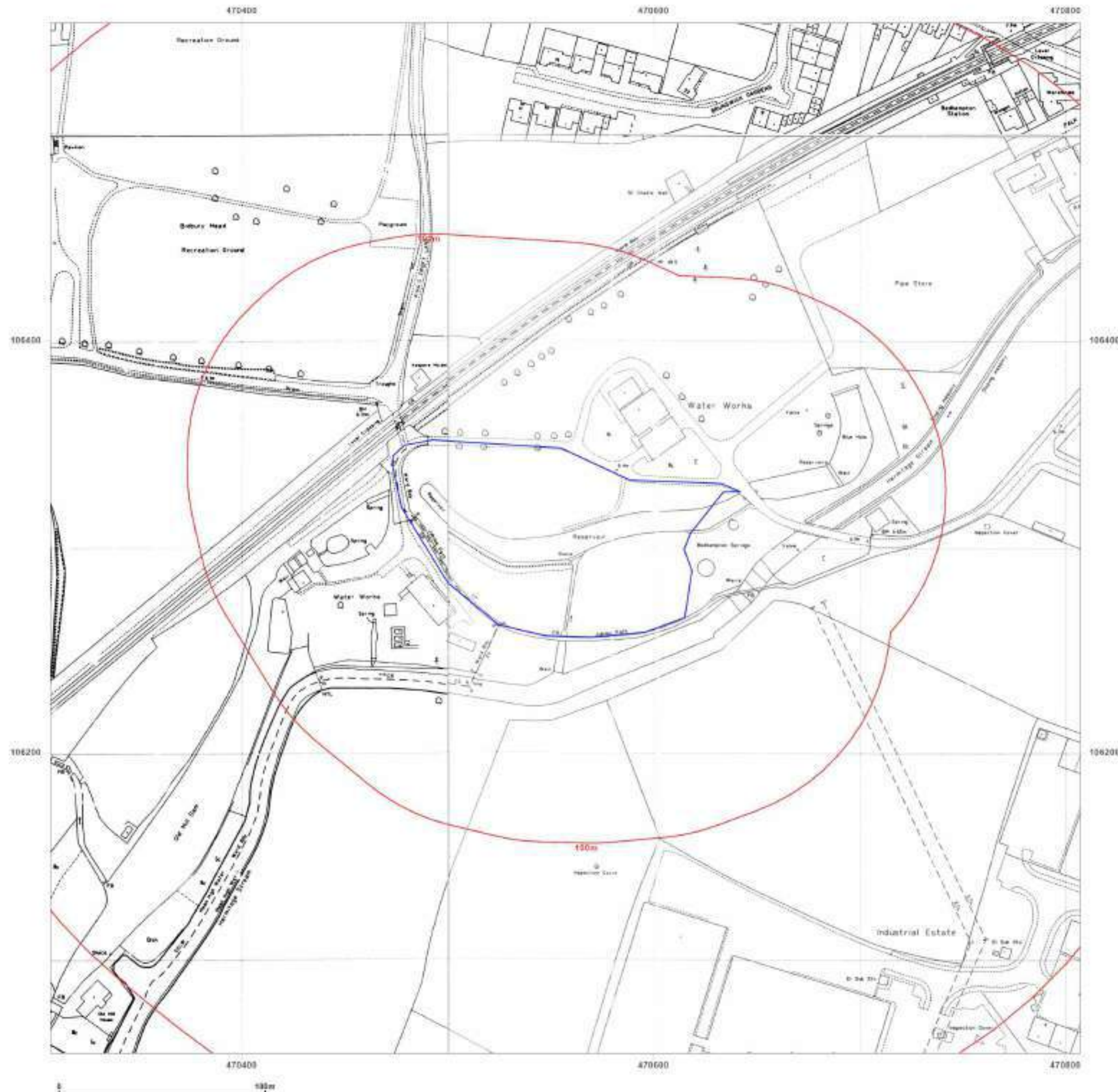


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Site Details:

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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: National Grid

Map date: 1993-1995

Scale: 1:1,250

Printed at: 1:2,000



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Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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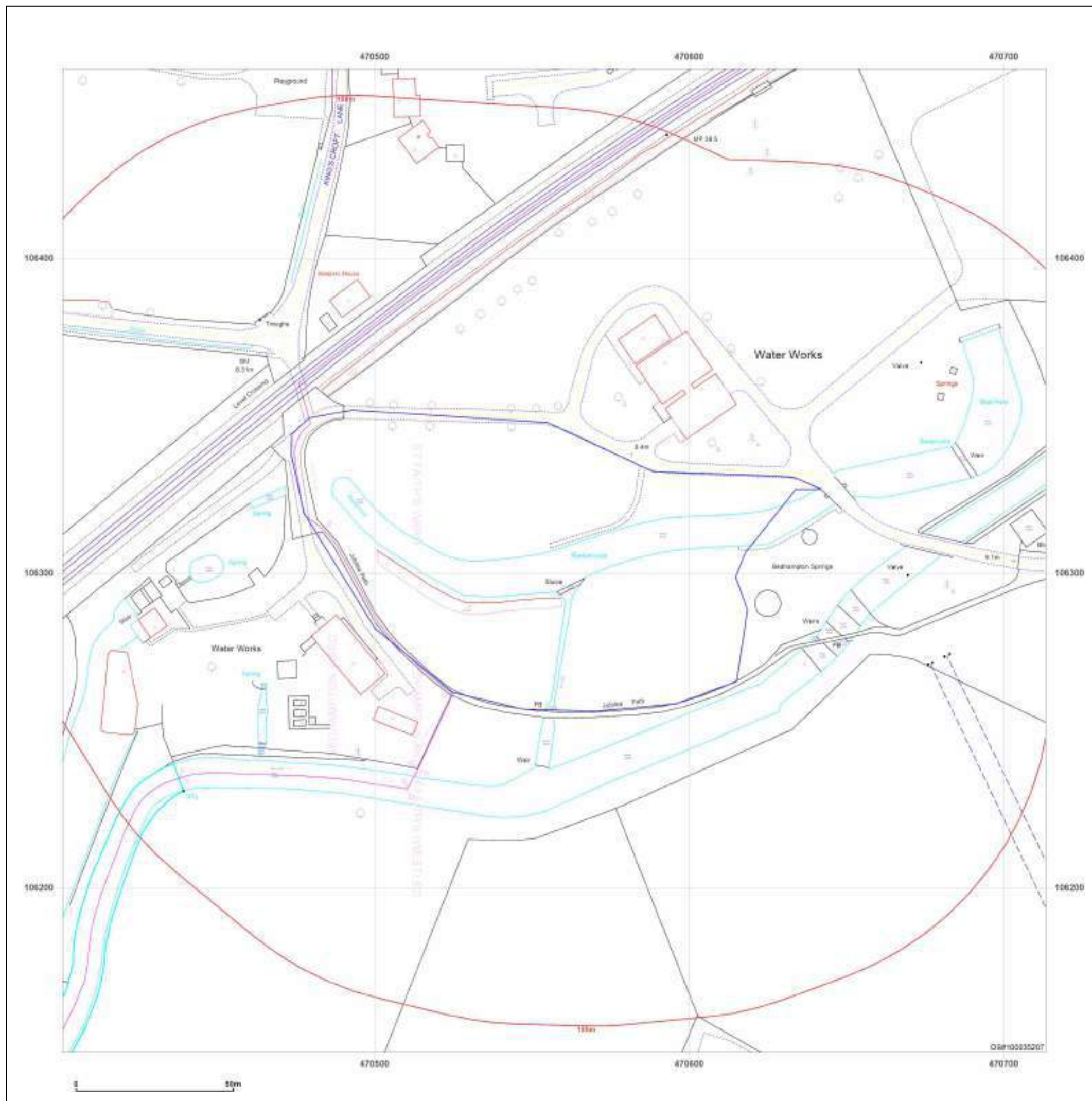


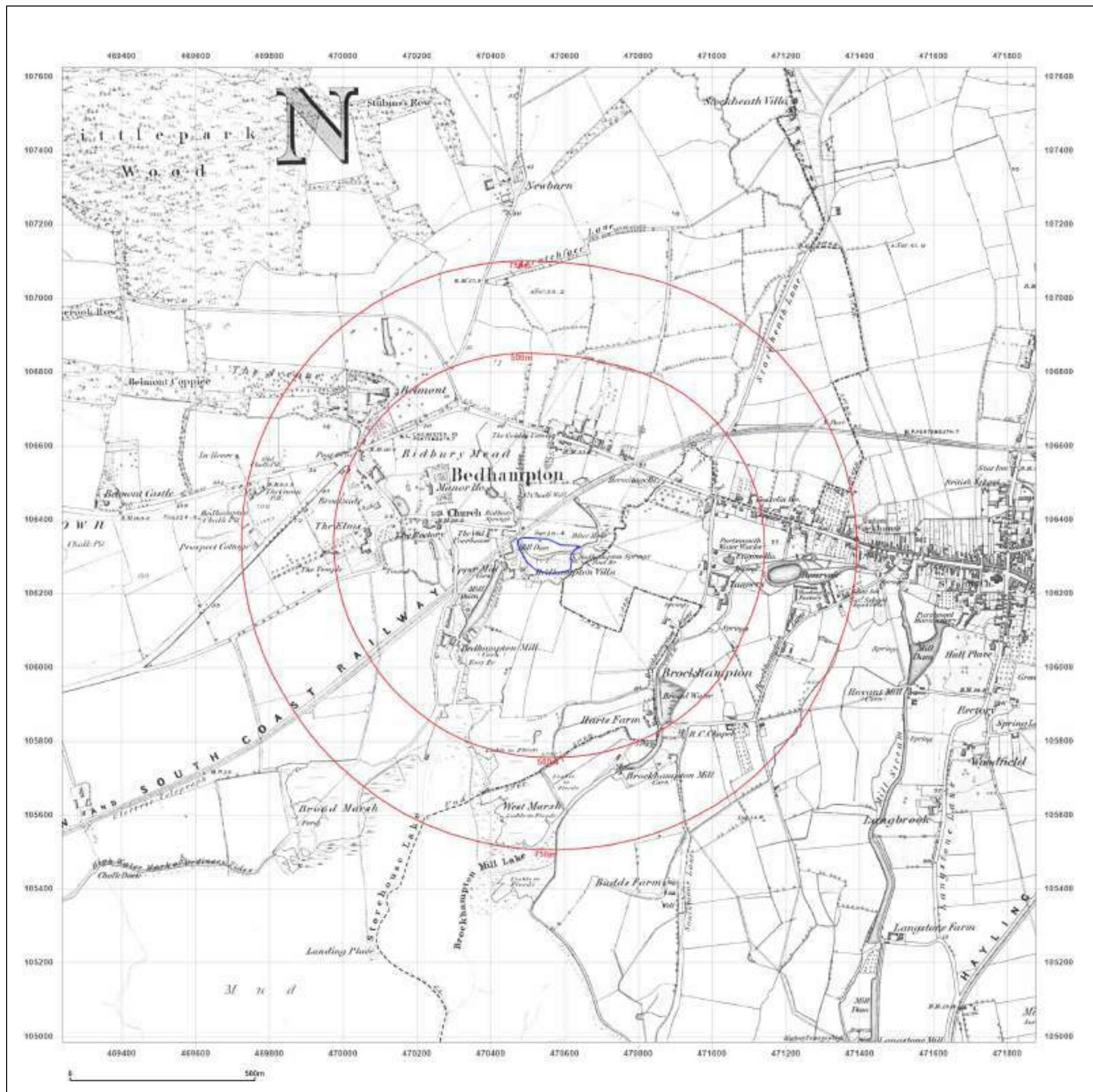
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Site Details:

unspecified

Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1866

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1866
Revised 1866
Edition N/A
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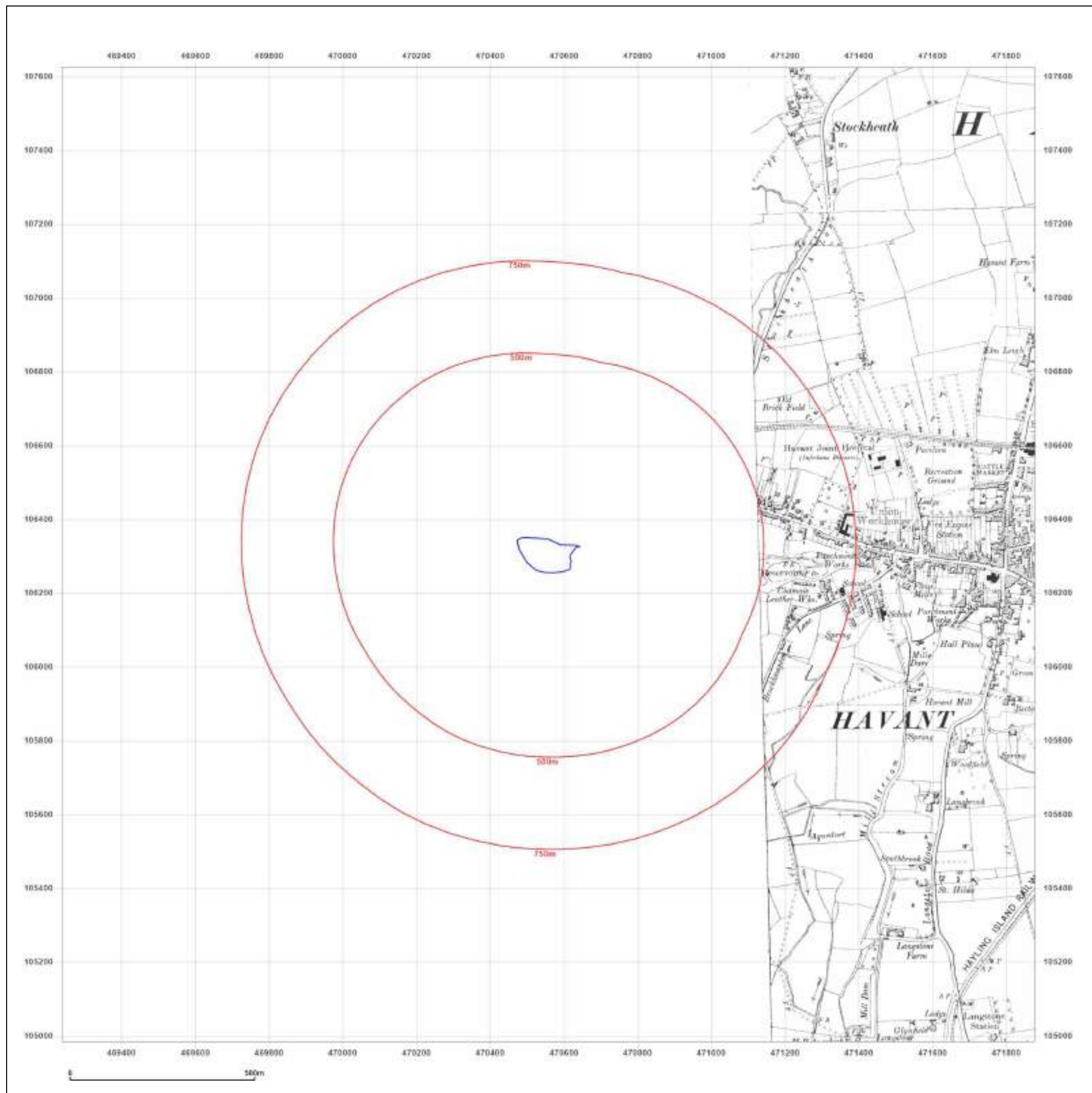


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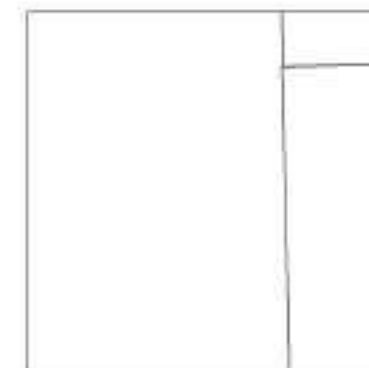
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Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1895-1896

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1873:
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Surveyed 1873
Revised 1896
Edition N/A
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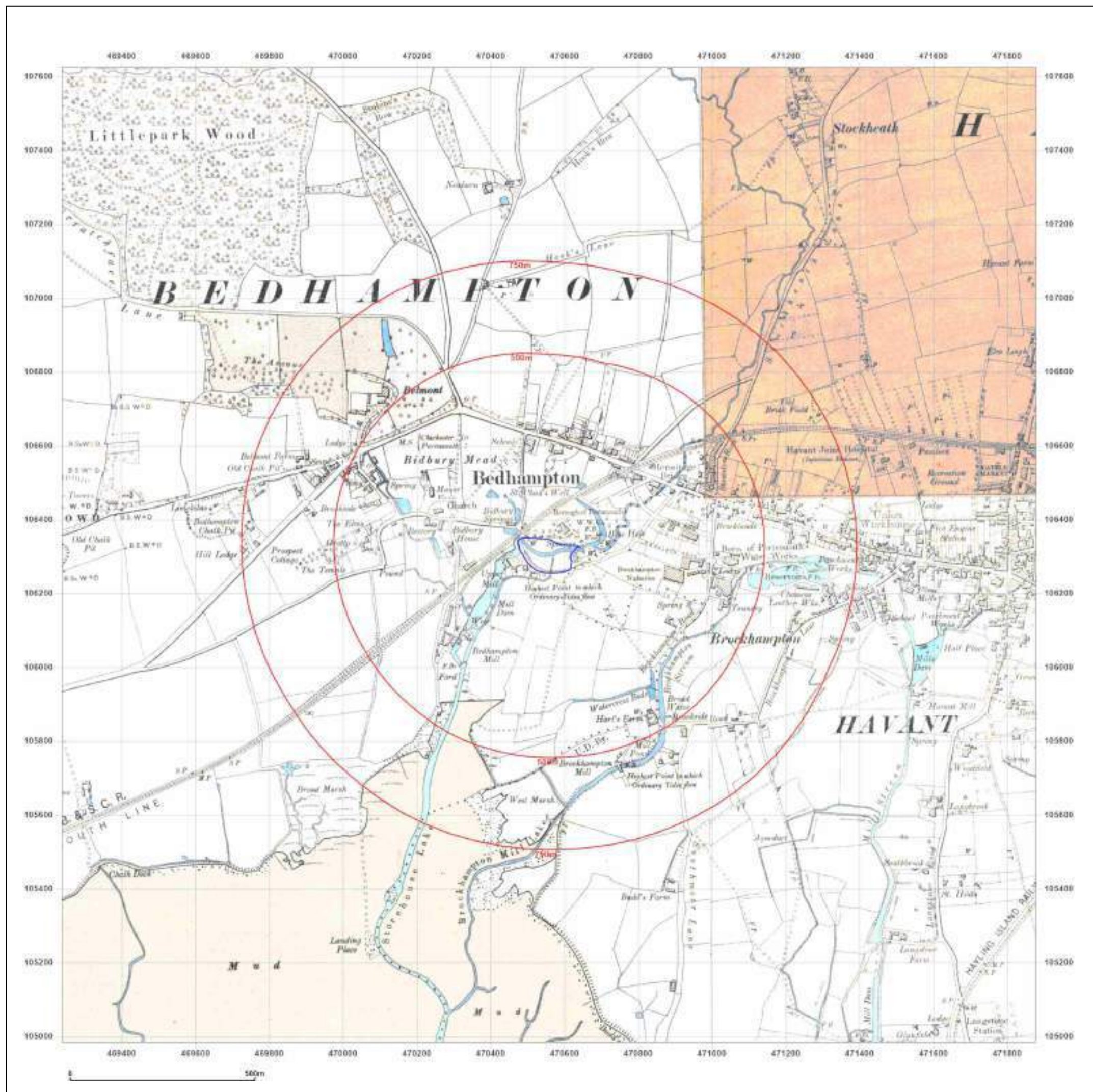


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Site Details:

unspecified

Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1895-1898

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1867
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1873
Revised 1895
Edition 1898
Copyright N/A
Levelled N/A

Surveyed 1888
Revised N/A
Edition 1898
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Surveyed 1888
Revised 1898
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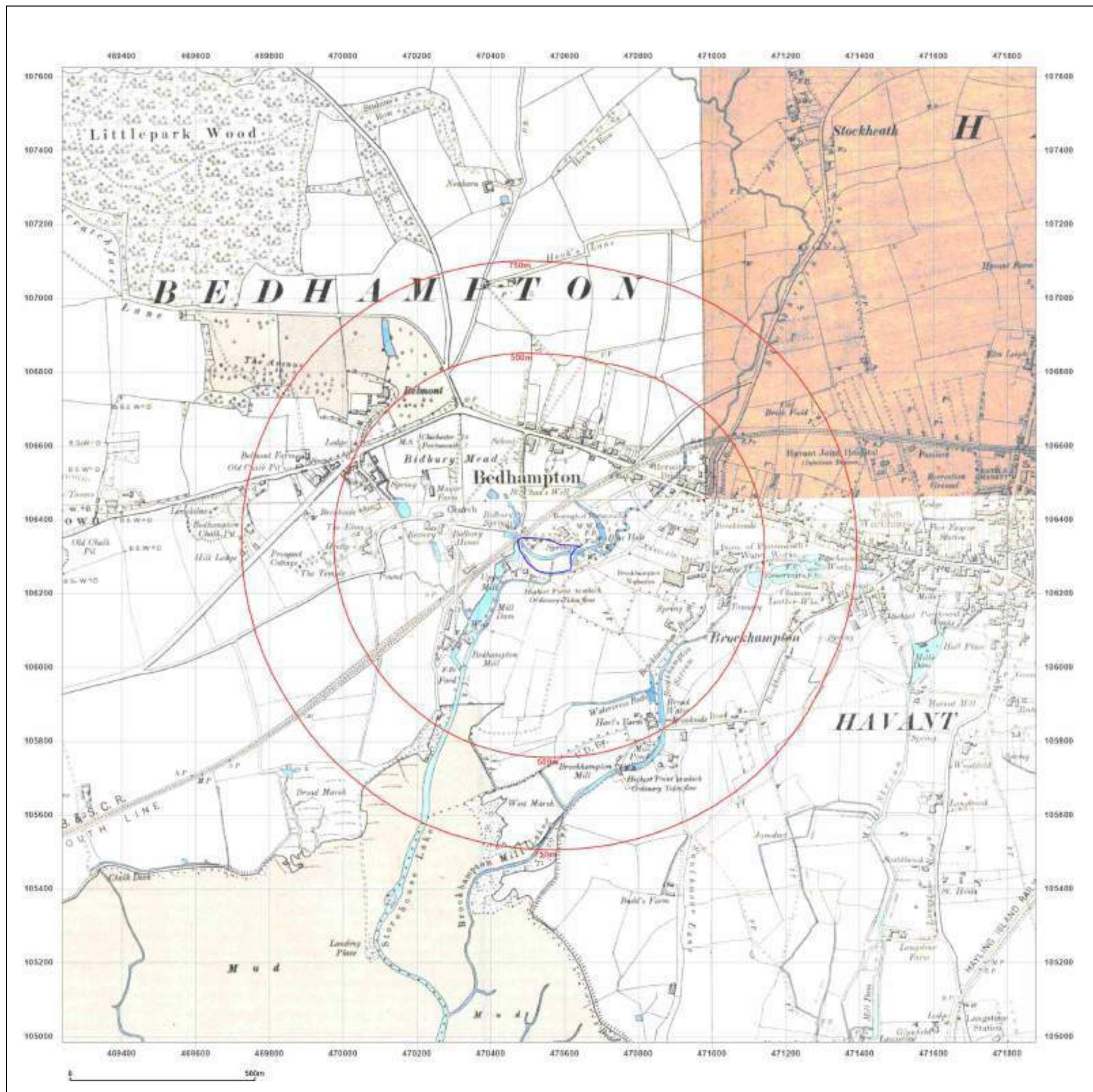


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Site Details:

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Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1895-1898

Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1872
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1888
Revised 1895
Edition 1898
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Surveyed 1873
Revised N/A
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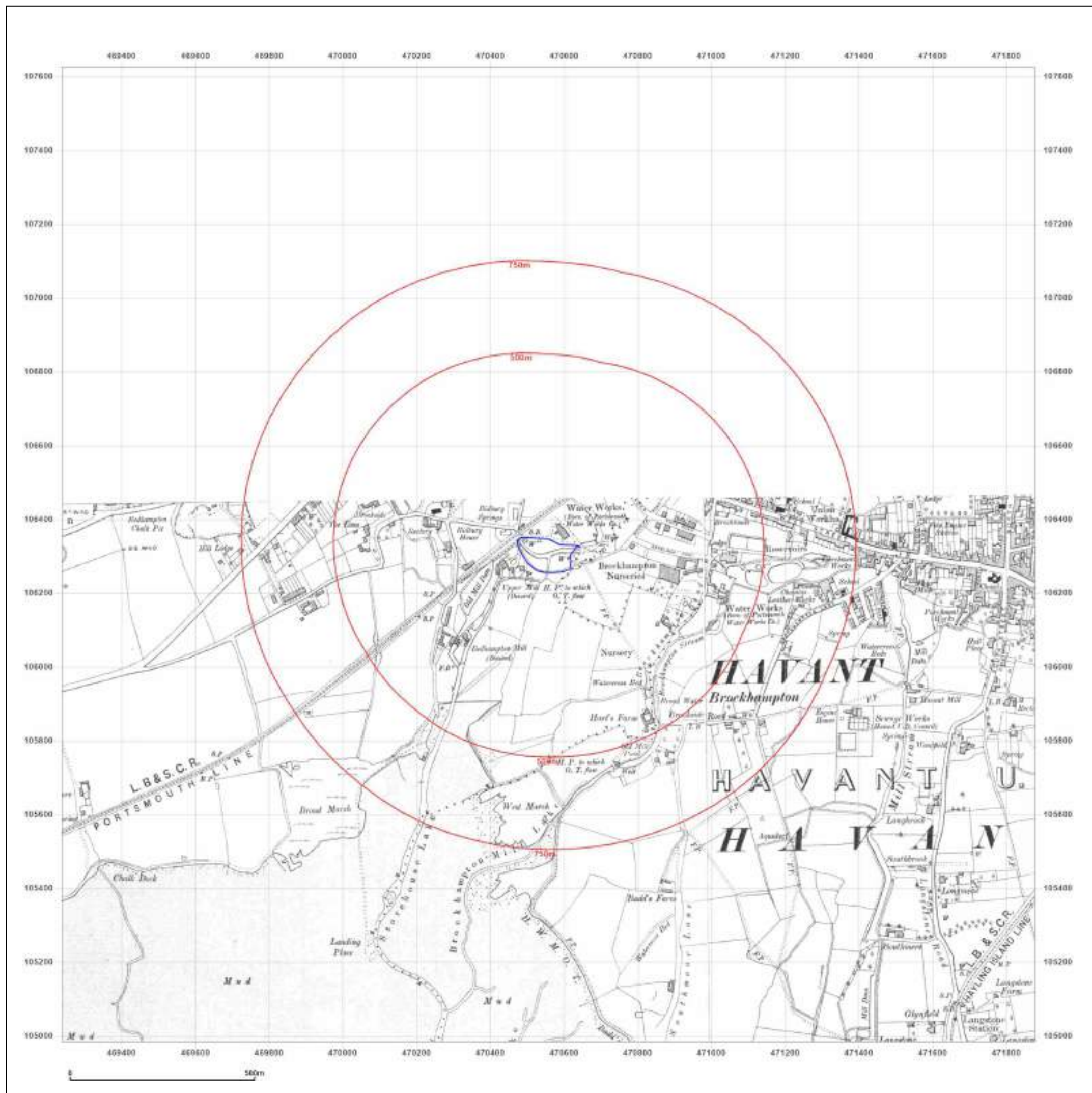


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unspecified

Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1907

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1858
Revised 1907
Edition N/A
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Levelled N/A

Surveyed 1858
Revised 1907
Edition N/A
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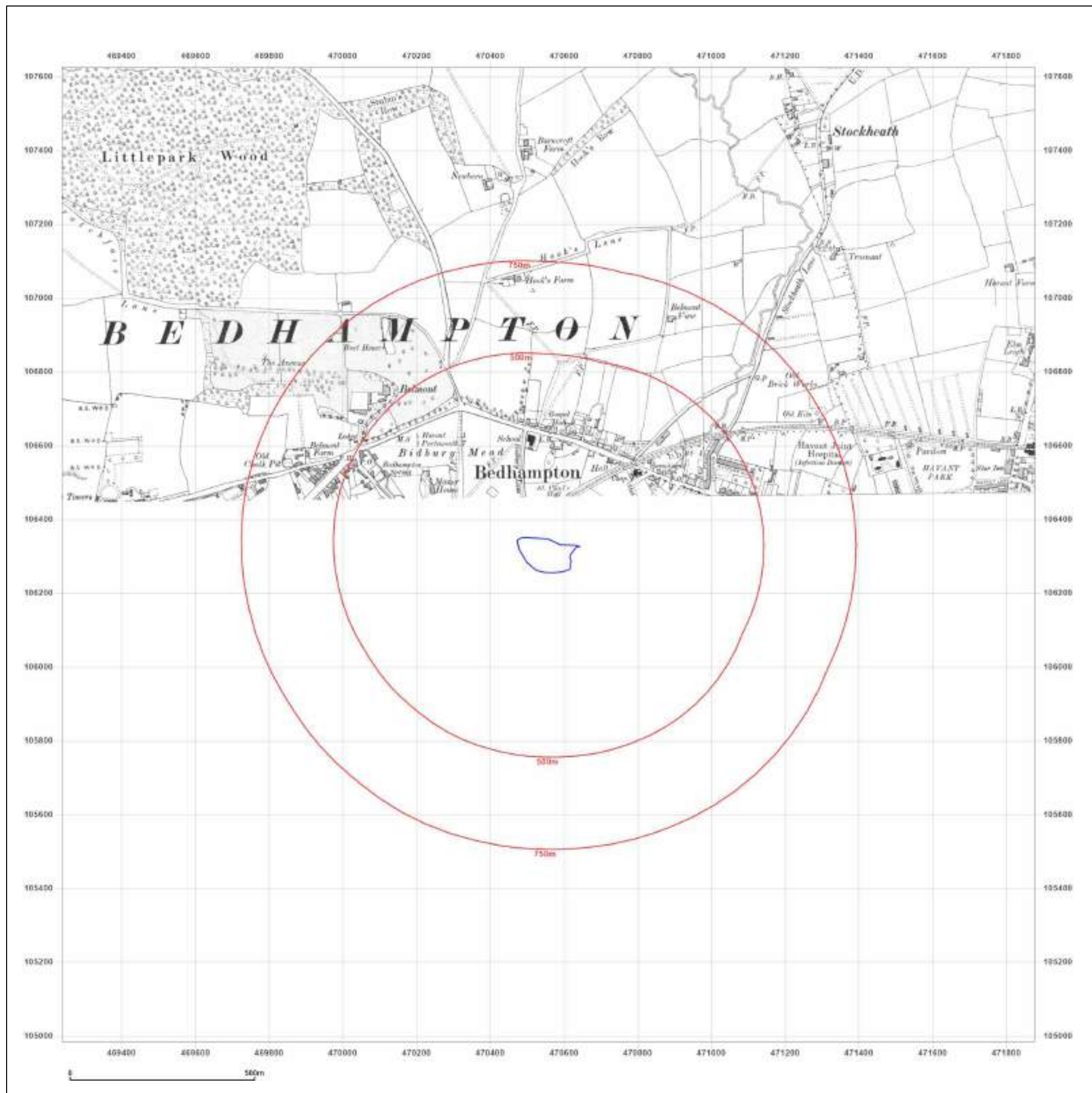


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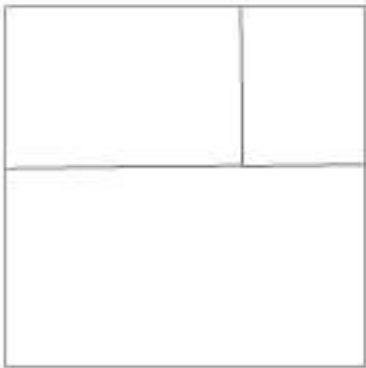
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Grid Ref: 470557, 106304

Map Name: County Series
Map date: 1907
Scale: 1:10,560
Printed at: 1:10,560



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Edition N/A
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Surveyed 1859
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Edition N/A
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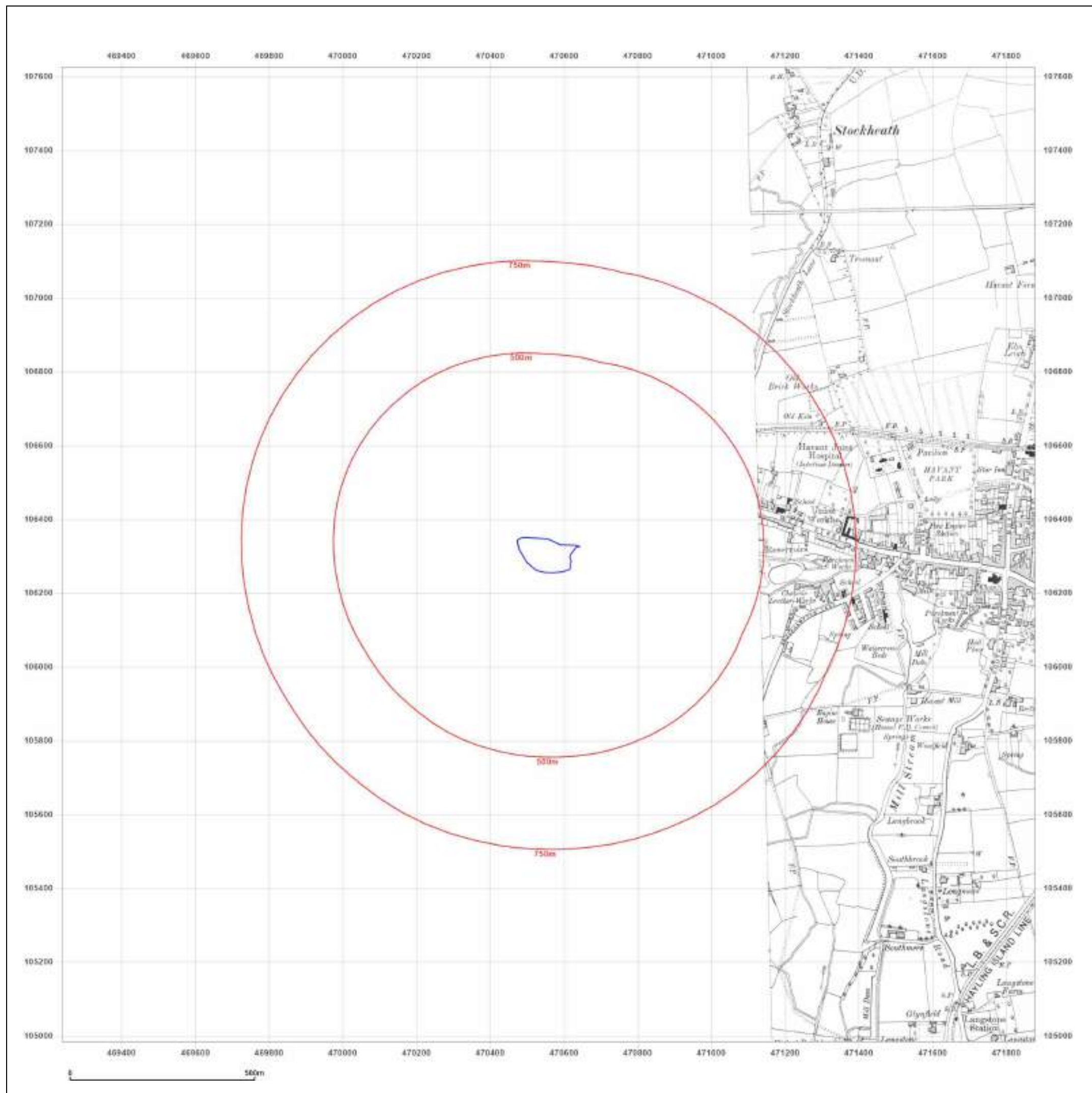


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Site Details:

unspecified

Client Ref: EMS_934966_1160217

Report Ref: EMS-934966_1190141

Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1910-1914

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1873
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1873
Revised 1914
Edition N/A
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Site Details:

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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1930-1931

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1859
 Revised 1930
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1865
 Revised 1931
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1858
 Revised 1931
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1865
 Revised 1931
 Edition N/A
 Copyright N/A
 Levelled N/A



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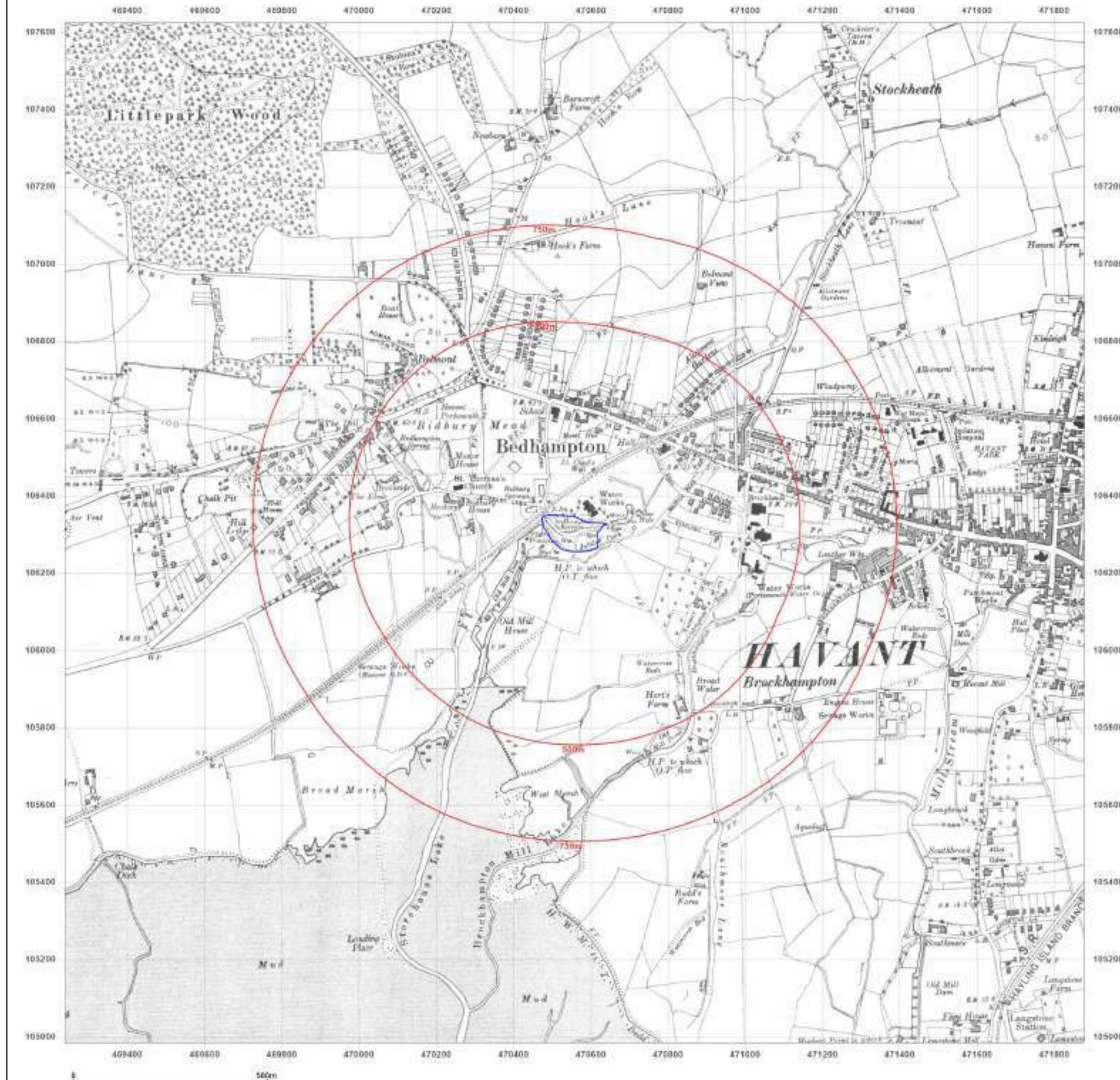


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Site Details:

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Surveyed 1859
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Surveyed 1865
 Revised 1931
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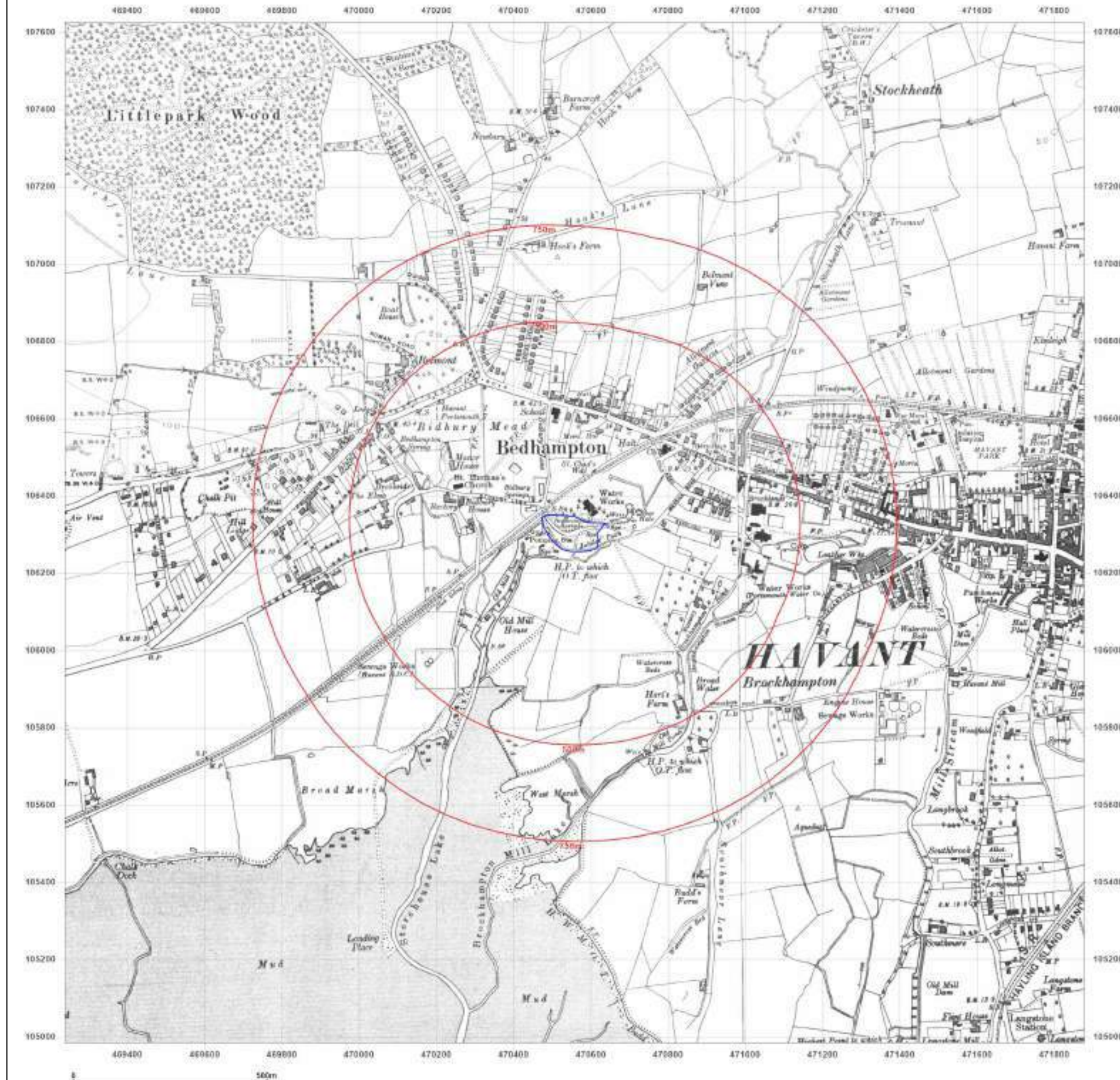


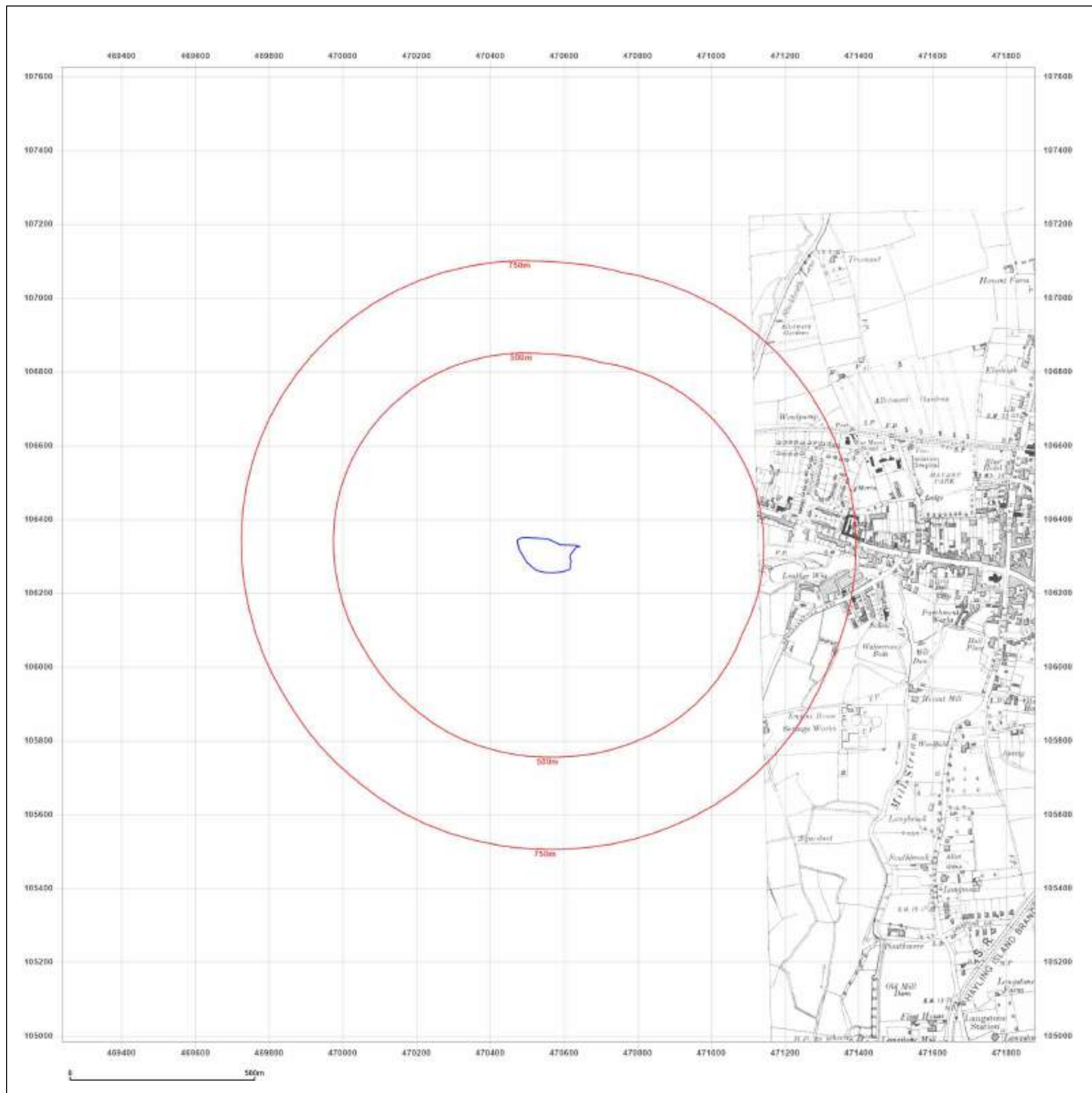
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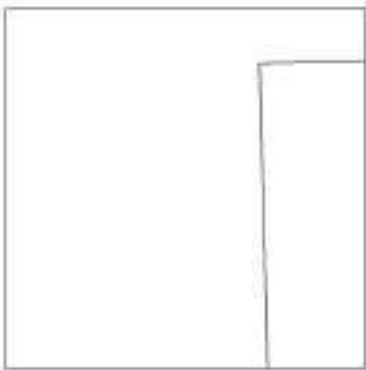
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Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1932

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1873
Revised 1932
Edition N/A
Copyright N/A
Levelled N/A



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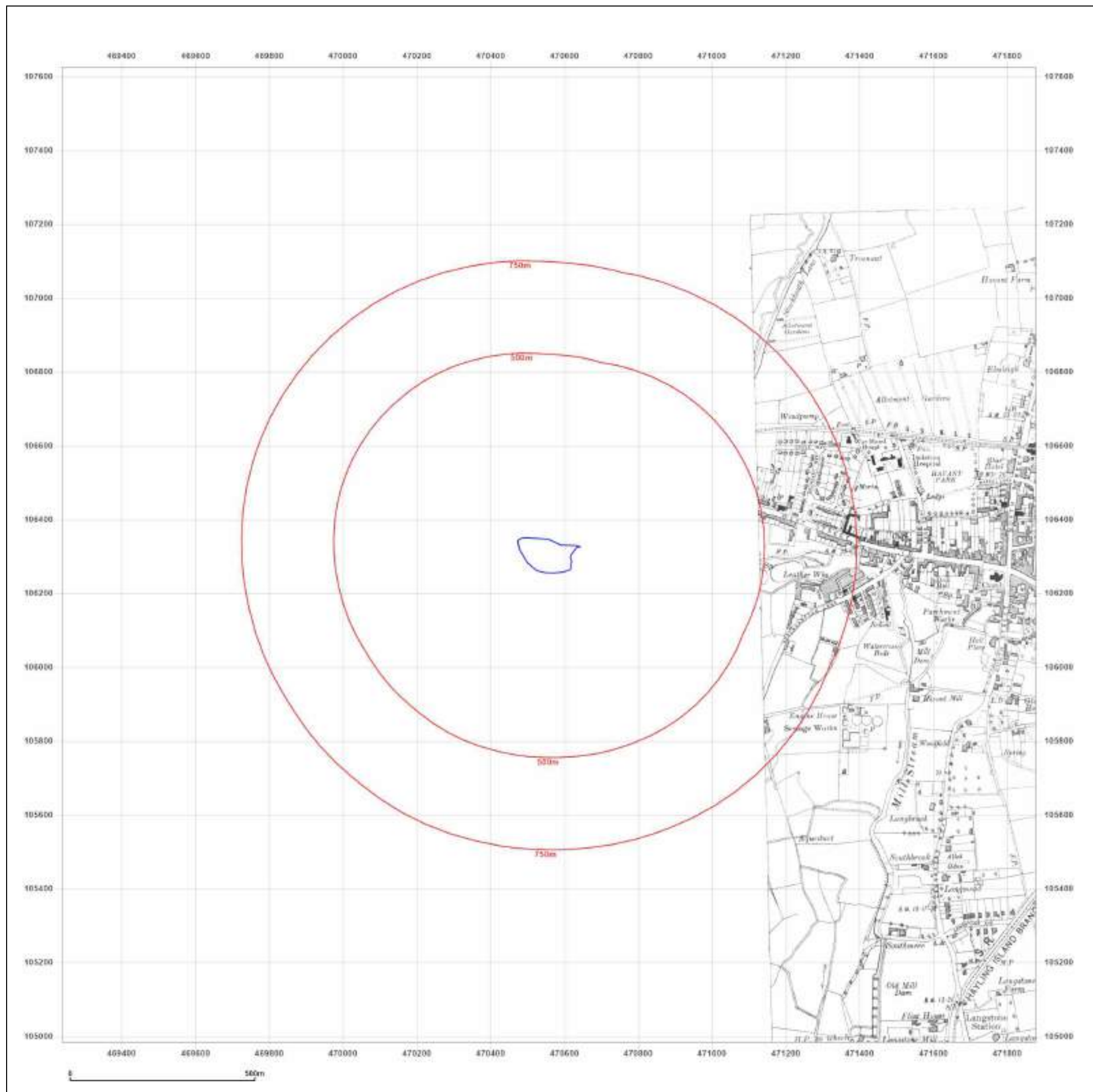


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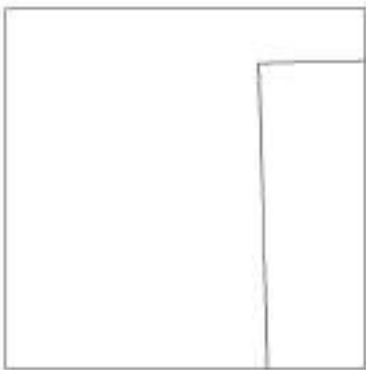
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Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1932

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1873
Revised 1932
Edition N/A
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Site Details:

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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: County Series

Map date: 1938-1942

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1859
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1865
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1858
Revised 1938
Edition N/A
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Levelled N/A

Surveyed 1865
Revised 1942
Edition N/A
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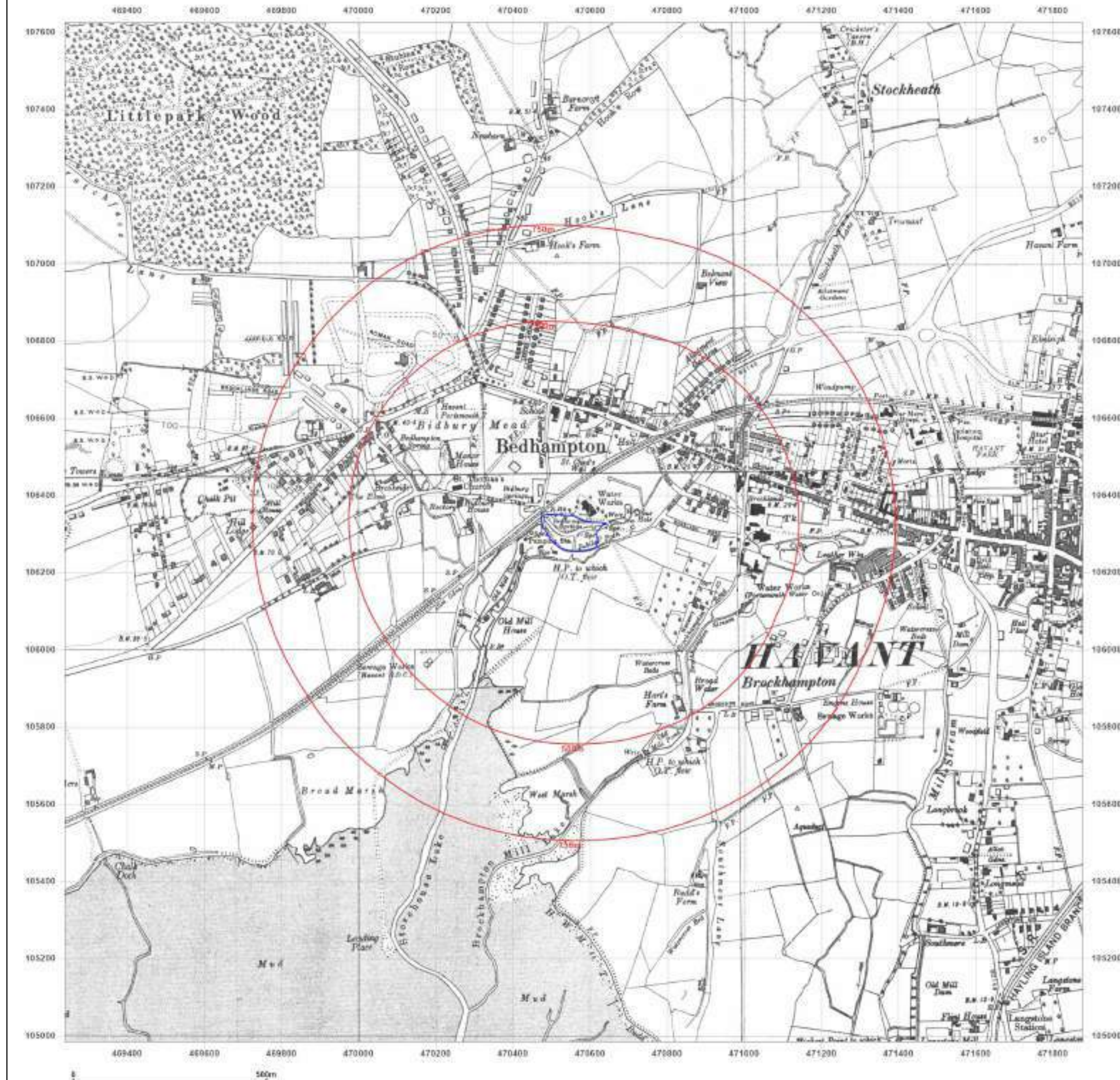


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Site Details:

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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: Provisional

Map date: 1963

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1873
Revised 1957
Edition N/A
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Site Details:

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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: Provisional

Map date: 1963-1966

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1865
 Revised 1957
 Edition N/A
 Copyright 1963
 Levelled N/A

Surveyed 1873
 Revised 1966
 Edition N/A
 Copyright 1963
 Levelled N/A



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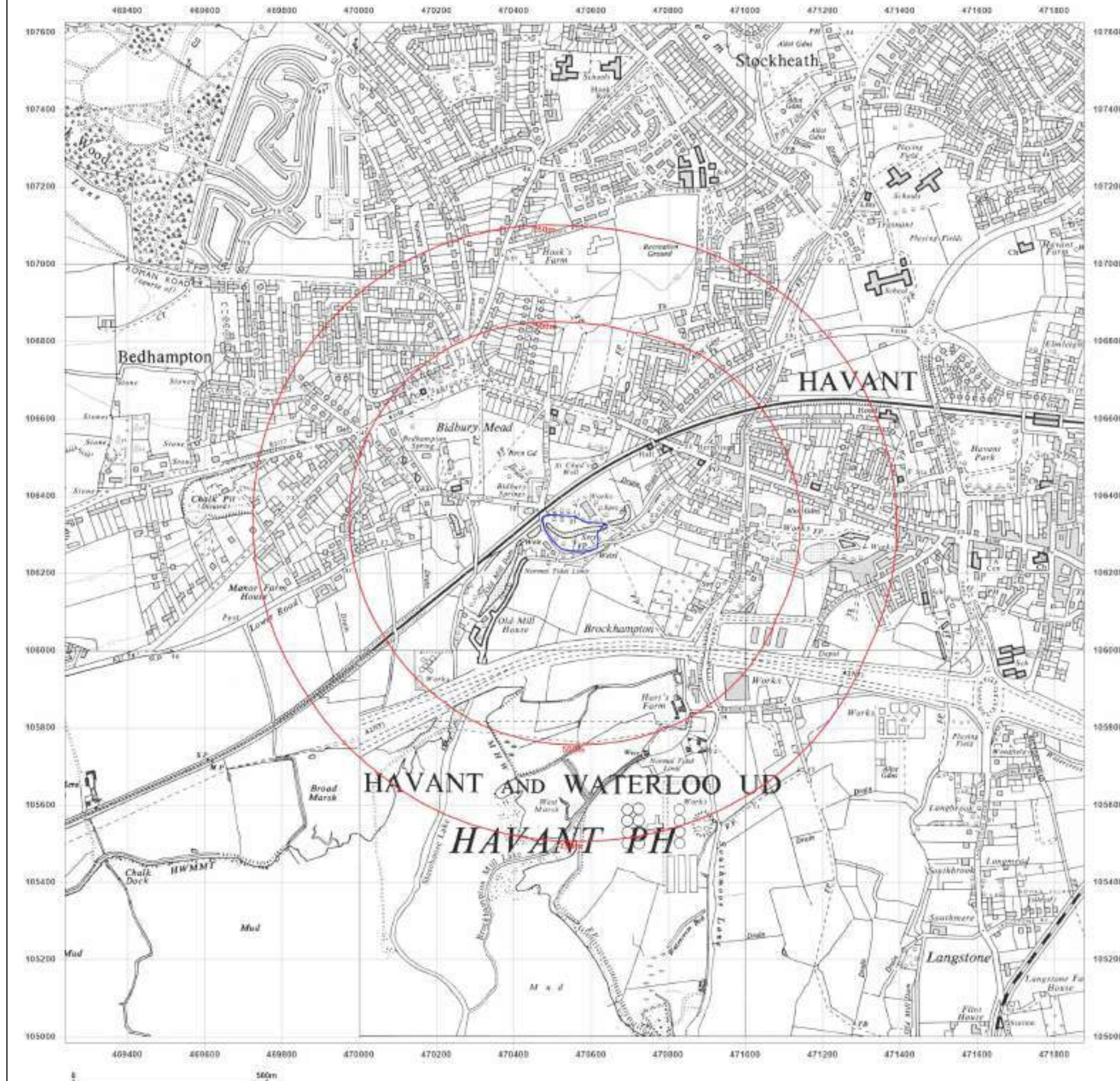


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Site Details:

unspecified

Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: National Grid

Map date: 1991

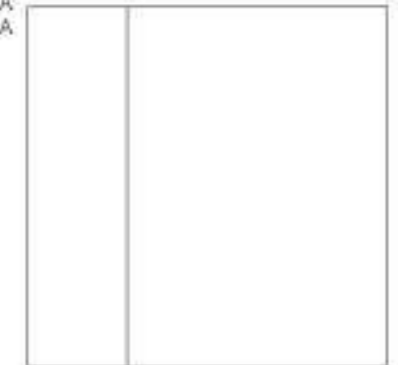
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Printed at: 1:10,000



Surveyed 1988
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1988
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A



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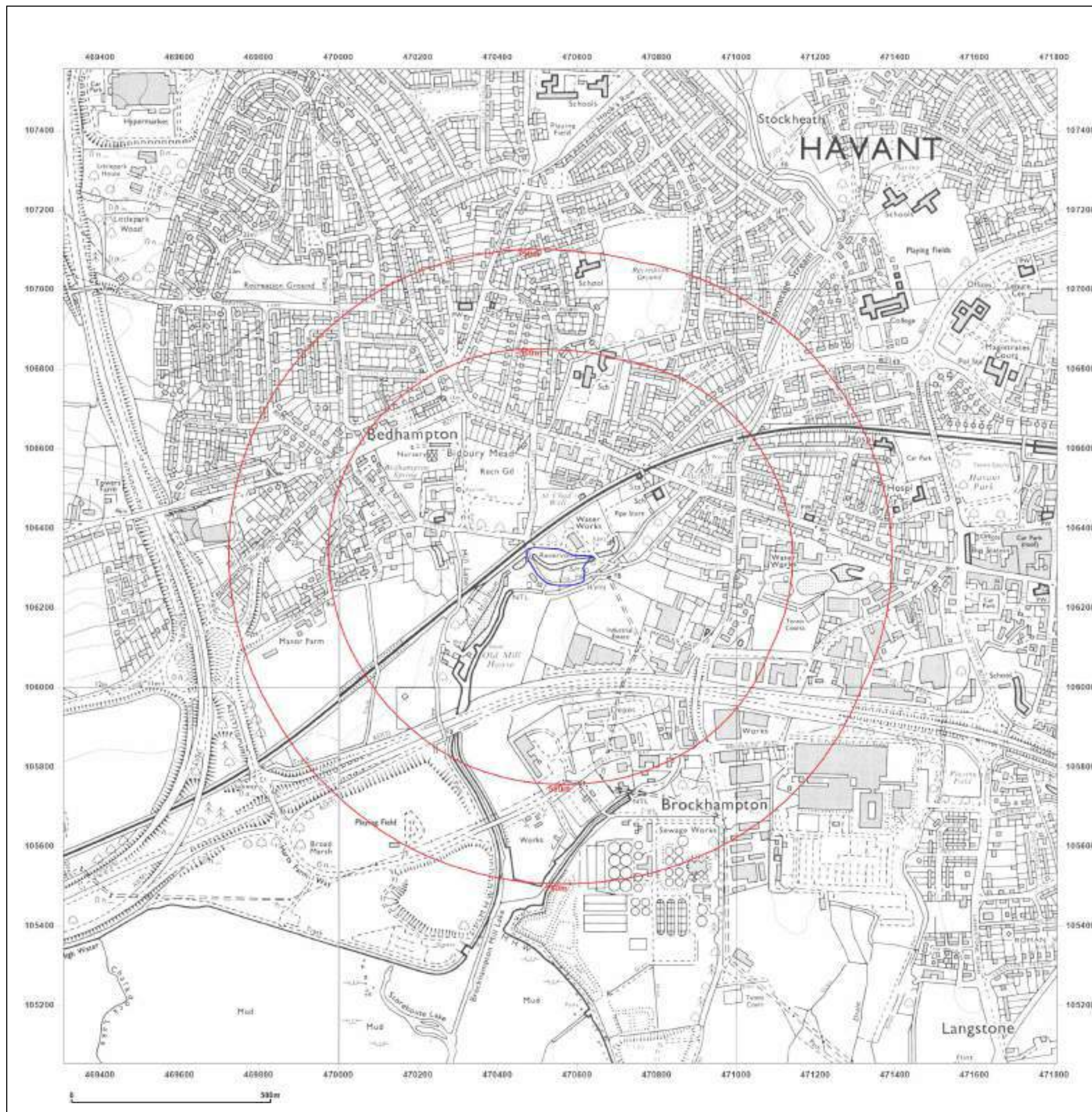


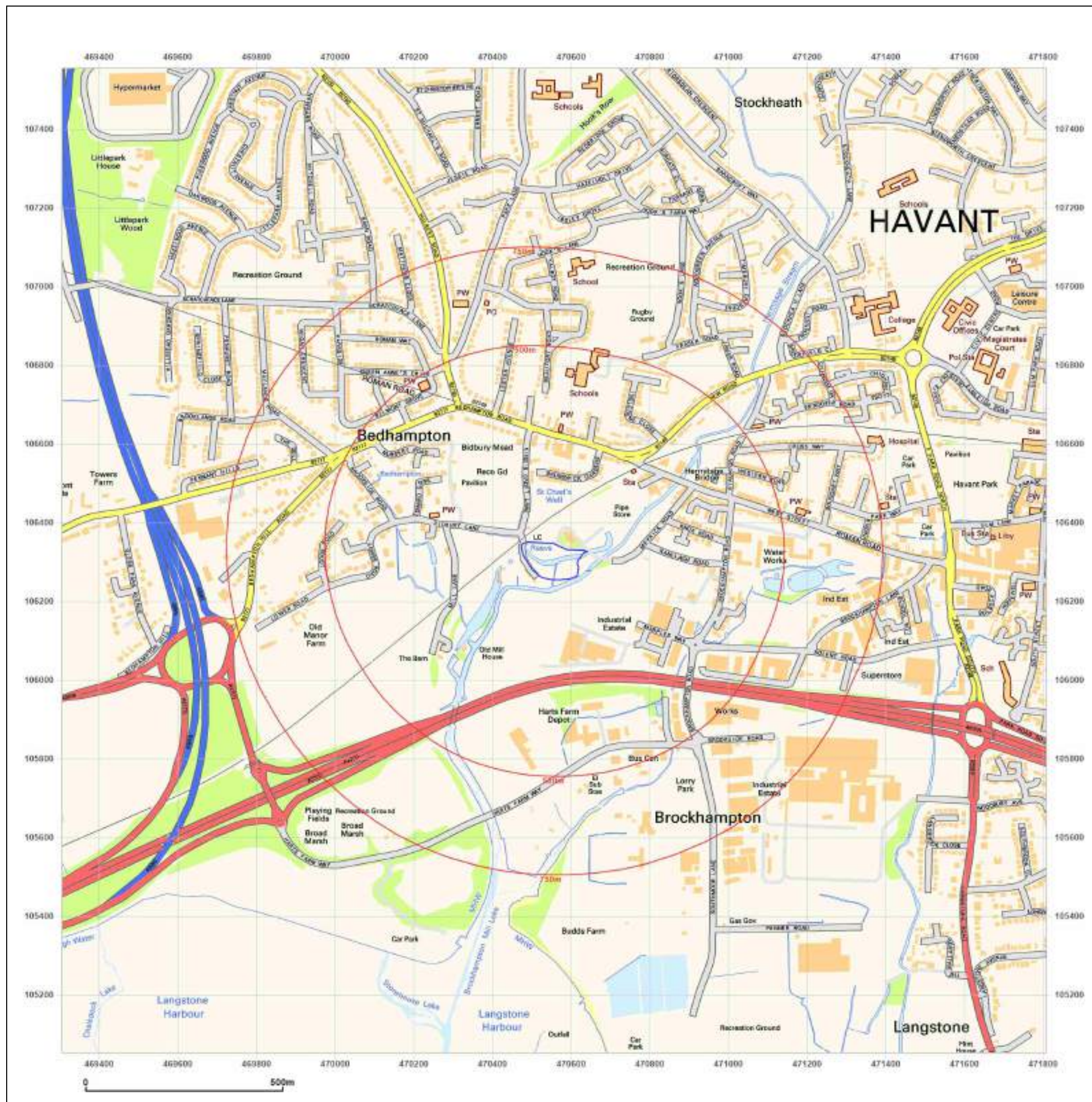
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Site Details:

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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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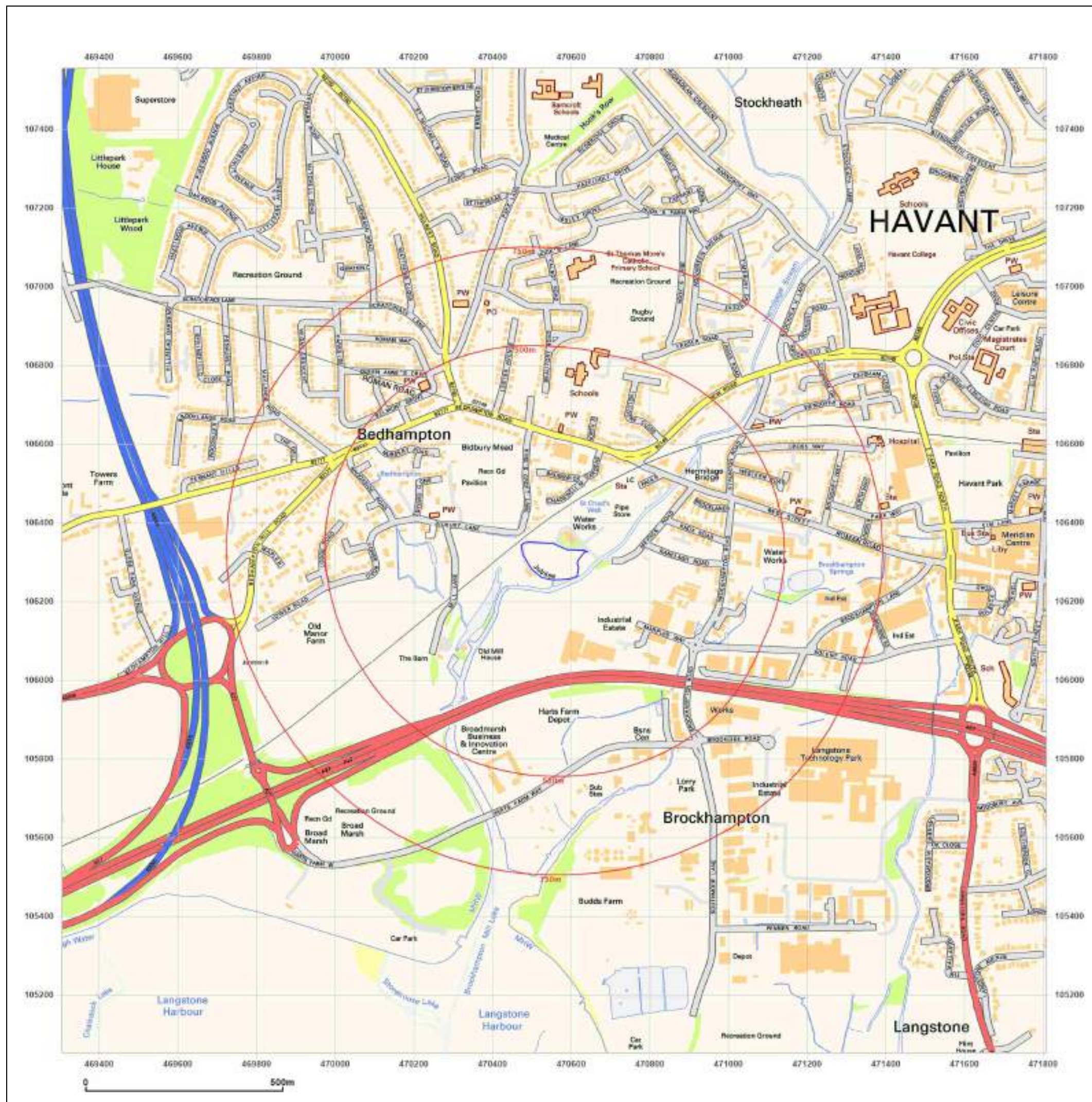


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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

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Client Ref: EMS_934966_1160217
Report Ref: EMS-934966_1190141
Grid Ref: 470557, 106304

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000



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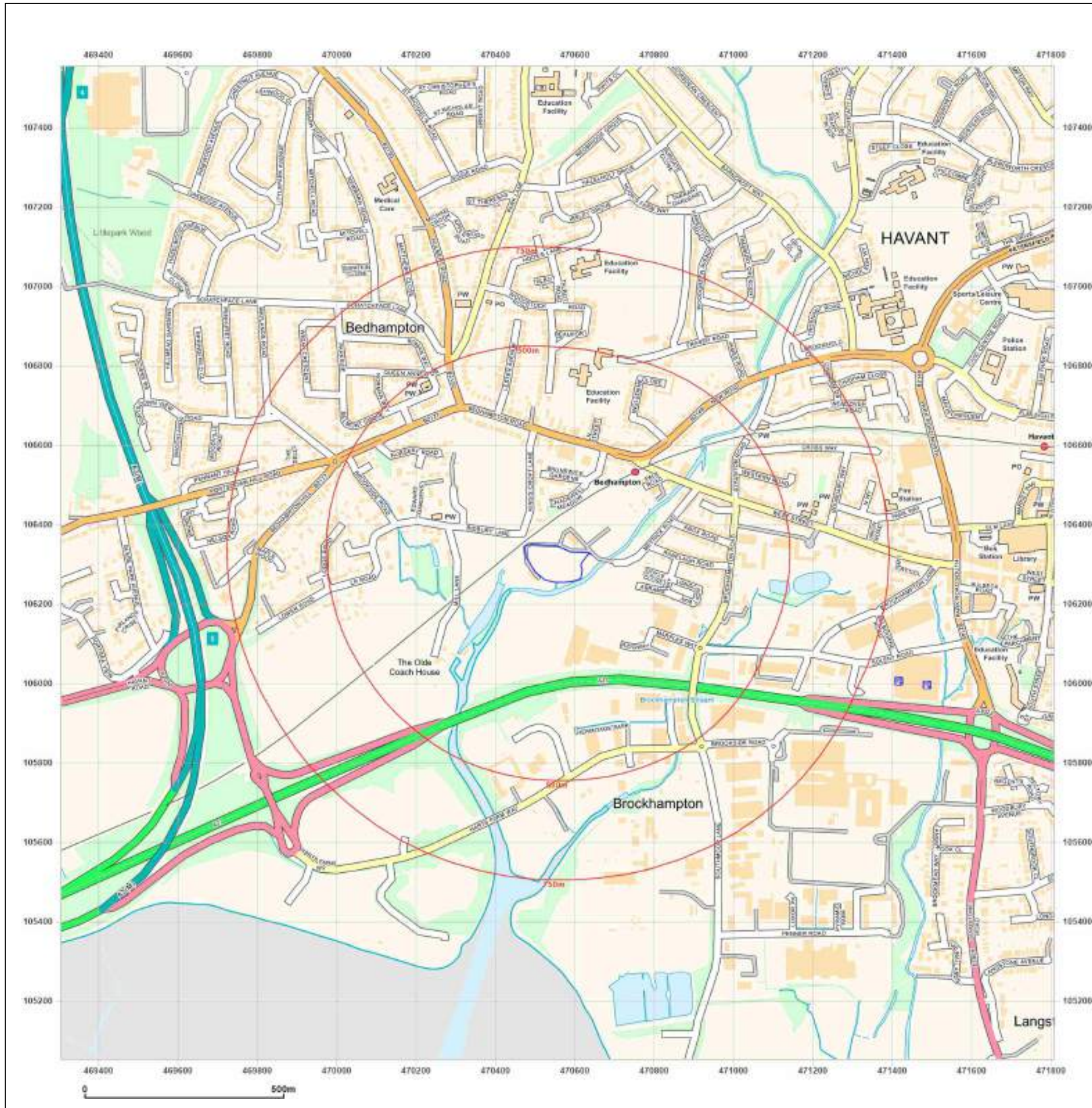


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