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Phase 1 Desk Study Site Investigation Report

LOCATION	Clegwell & Hartleyburn Community Hub, Mount Batten Avenue, Hebburn, NE31 2QP
ISSUE DATE	October 2025
FOR	Clewell & Hartleyburn C.I.O
CLIENT REF.	
OUR REF.	G25318

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Appendix 1 – Historical Map Record

Appendix 2 – GroundSure Enviro + GeoInsight Report

Appendix 3 – Coal Authority Report

Executive Summary

The major conclusions of this desk-based Phase one study are summarised in the table below:

Site Suitability	Desk Study Finding	Preliminary Assessment
Normal Foundations	Bedrock expected to be present at potentially shallow depth with possible thin drift deposits. Consideration should be made to vegetation influence if clay soils are encountered. A potential for deeper made/infilled ground has been identified underlain by competent natural deposits at unknown depth.	Likely to be suitable
Soakaways	Sandstone/mudstone/siltstone bedrock and any potential made ground unlikely to offer sufficient permeability. Clay soils unlikely to offer sufficient permeability.	Unlikely to be suitable

Potential Risks	Desk Study Finding	Preliminary Risk Assessment
Radon Gas	Between 1% and 3% of properties affected	Low
Chemical Contamination	Historical nearby and on-site land uses potentially giving rise to a range of inorganic and organic contaminants including asbestos, metals/metalloids, PAHs.	Moderate
Hazardous Gas	Potential for hazardous gas to be generated in made/infilled ground deposits.	Moderate
Ground Instability/ subsidence	Potential for vegetation influence on shrink-swell clays which may be present, including risk of soil heave. Potential for significant deposits of compressible made/infilled ground.	Low to Moderate
Ground Instability/ subsidence	Potential for unrecorded shallow coal mining.	Very Low

NB. Arbitrary potential hazard assessment: High (Red), Moderate (Amber), Low (Yellow), Very Low (Green), Negligible (uncoloured)

1. Introduction

In accordance with your instruction, Geoinvestigate Ltd. has carried out a Phase 1 Desk Study Investigation of the land at Clegwell & Hartleyburn Community Hub, Mountbatten Avenue, Hebburn, NE31 2QP. The location of the site is shown on the Groundsure Enviro+Geo Insight report presented in Appendix 2.

The site currently comprises an area of land some 4.58 ha in size with access via an unnamed track north off Mountbatten Avenue. The site comprises Clegwell & Hartleyburn Community Hub and Clegwell FC with soft landscaped recreational areas and hardstanding access roads.

It is understood that it is proposed to construct an extension to the nursery, office extension, boxing hub building and play area / baby room to the nursery, as well as a new changing room for the sports pitch, to the east.

The purpose of the Phase 1 Desk Study investigation was to review the historical land use and geological information for the site in order to provide an assessment of the potential geotechnical/foundation problems together with a qualitative contamination and ground gas risk assessment.

2. Scope of Works

The investigation comprised a review of the following information;

- An extract from the 1:50,000 BGS geological mapping.
- Historical OS maps of various scales dating back to 1857 (presented in Appendix 1).
- Observations from a walkover study carried out by Geoinvestigate.

3. Findings of Phase 1 Investigation

3.1 Anticipated Geology

The extract of the 1: 50,000 BGS geological mapping indicates that the site may comprise made ground artificial deposits which will be underlain by superficial deposits of Pelaw Clay Member if any present at all with bedrock comprising the Pennine Middle Coal Measures Formation (Sandstone), Hebburn Dyke (Microgabbro) and Pennine Middle Coal Measures Formation (Mudstone, Siltstone and Sandstone).

Nearby BGS borehole records generally show thin topsoil overlying sandy clay with mudstone bedrock generally commencing from depths of between 2.90m and 3.96m.

3.2 Historical OS Maps and Historical Land Use

Copies of historical OS maps were obtained for the site covering the period 1857 to 2025. Historical land uses and major features located within the site boundary and externally but potentially within influencing distance are summarised in Table 1 on the following page. The earliest OS map of 1857 shows the site to be undeveloped, used as agricultural land, trees and a small stream.

Table 1: Summary of Historical OS Map Land Use & Potential Hazard Identification

Map Feature	Location	Appears	Absent	Notes
Agricultural land (fields and woodland)	Onsite	1857	1857	No longer present from 1857 mapping, site becomes developed into ponds as described below.
Well	250m Southwest	1856	1857	No longer present from 1857 mapping, potentially infilled feature.
Stream (Bede's)	Onsite	1857	1857	Cuts across the centre of site from the southwest to northeast. No longer present from 1857 mapping. Re-established following reductio in size of ponds onsite.
'Hebburn Hall Ponds' *	Onsite	1895	1951	Includes on site sluice, boat house. From 1941 the size of the ponds drastically decreases. Small ponds are present in the original footprint up until 1956.
Cuttings / Groundworks	Onsite (Closest)	1897	1968-Present	Groundworks associated with the construction of the ponds but change size and shape once Hebburn school is constructed. Groundworks are associated with the ponds until 1951 and later changed to accommodate the onsite buildings and sports facilities.

Table 1 continued on following page:

* Hebburn Hill Ponds were used to supply water to the local industry and for recreational use also.

Table 1(Ctd) Summary of Historical OS Map Land Use & Potential Hazard Identification

Map Feature	Location	Appears	Absent	Notes
Hebburn Community Centre/School	Onsite	1973	Present	Community centre, skate park, recreational fields and hardstanding roads all present on site.
Electrical Substation (2)	10m Southwest (closest)	2003	Present	
Residential Development	5m South	1965	Present	The surrounding area becomes predominantly comprised of residential buildings remains up until present day.

NB. Arbitrary potential hazard assessment: High (Red), Moderate (Amber), Low (Yellow), Very Low (Green), Negligible (uncoloured)

A review of the historical OS maps has highlighted the land uses most likely to present (or have presented) a risk to the site. Principally, the construction and any infilling of Hebburn Hall Ponds formerly onsite might provide the greatest source of contamination and ground gas to the site.

3.3 GroundSure Enviro + GeoInsight Reports

The GroundSure Enviro+Geo Insight Report presented in Appendix 2 provides listings of potentially contaminative current and past land uses together with possible pathway and receptor information. It also covers other potential risks to the site including ground hazards associated with the area's natural geological setting and man-made hazards such as those arising from development activities. A summary of the relevant Report findings is presented in Table 2 below and on the following pages.

An arbitrary potential hazard assessment has been made as follows: potentially significant (yellow), or unlikely to be significant (uncoloured). Potential receptors for contamination are highlighted blue.

Table 2: GroundSure Enviro+Geo Insight Summary:

Details	Feature	Location relative to site
Past land use		
Historical industrial land uses	Railway sidings (1) Unspecified Ground Workings (3) Unspecified Heap (3) Boat House (4) Pump House (1) Police Station (1) Unspecified Pit (2) Cuttings (2) Unspecified Quarry (3) Refuse Heap (6) Cemetery (6) Infirmary (3) Unspecified Tank (1) Unspecified Old Quarry (1) Hospital/Fever hospital/Infectious Disease Hospital (11) Smithy (1) Slag Works (1) Gravel Pit (1) Coal Depot (1)	On site On site (closest) On site (closest) 49m Northeast (closest) 91m Northeast 131m Southeast 169m Northwest (closest) 171m North (closest) 171m North (closest) 179m Northwest (closest) 203m West (closest) 211m North (closest) 245m Southwest 257m North 272m Southeast (closest) 396m Southeast 399m East 399m East 442m East

Table 2 is continued on the following page

NB Arbitrary potential hazard assessment: potentially significant (yellow), or unlikely to be significant (uncoloured). Potential receptors for contamination are highlighted blue.

Table 2 (ctd.): GroundSure Enviro+Geo Insight Summary:

Details	Feature	Location relative to site
Past land use		
Historical Energy Features	Electrical Substation (20)	29m Southwest (closest)
Historical Tanks	Unspecified Tank (4)	248m Southwest (closest)
Historical garages	Garage (2)	498m West (closest)
Landfill and Other Waste Sites		
Historical landfill (LA/mapping records)	Refuse Tip (1)	496m South (closest)
Historical landfill (EA/NRW records)	Environmental (1) Industrial & Environmental (1)	133m North 227m Northeast
Historical waste sites	None recorded within 500m	N/A
Licensed waste sites	None recorded within 500m	N/A
Waste exemptions	Using waste exemption (1) Treating waste exemption (7)	18m Northeast 404m Northeast (closest)
Recent industrial land uses	Electricity Sub Station (6) Gas Governor (1)	Onsite (closest) 169m Northeast
Current or recent petrol stations	None recorded within 500m	N/A
Control of Major Accident Hazards (COMAH)	None recorded within 500m	N/A
Licensed pollutant release (Part A(2)/B)	None recorded within 500m	N/A
Licensed Discharges to controlled waters	None recorded within 500m	N/A
Pollution Incidents (EA/NRW)	Specific Waste Materials (1)	497m Northeast
Hydrogeology - Superficial aquifer		
Superficial aquifer	Unproductive (1)	Onsite
Bedrock aquifer	Secondary A (1) Secondary B (1)	Onsite Onsite
Groundwater vulnerability	Unproductive to Low (6)	Onsite
Surface Water Abstractions	None recorded within 2000m	N/A
Hydrology		
Water Network (OS MasterMap)	Water year round (1)	Onsite
WFD Surface water body catchments	River WB catchment	On Site
WFD Surface water bodies	River (1)	1518m East
WFD Groundwater bodies	Tyne Carboniferous Limestone and Coal Measures (1)	Onsite
River and coastal flooding		
Risk of Flooding from Rivers and Sea (RoFRaS)	No records within 50m	N/A
Historical Flood Events	None recorded within 250m	N/A
Flood Zone 2	Zone 2 – no records	N/A
Flood Zone 3	Zone 3 - no records	N/A
Surface water flooding		
Surface water flooding	Highest risk on site Highest risk within 50m	1 in 30 year, 0.3m - 1.0m 1 in 30 year, 0.3m - 1.0m
Groundwater flooding		
Groundwater flooding	Highest risk on site Highest risk within 50m	Low Low

Table 2 is continued on the following page

NB Arbitrary potential hazard assessment: potentially significant (yellow), or unlikely to be significant (uncoloured). Potential receptors for contamination are highlighted blue.

Table 2 (ctd.): GroundSure Enviro+Geo Insight Summary:

Details	Feature	Location relative to site
Environmental designations		
Local Nature Reserves (LNR)	Pelaw Quarry Pond Primrose	891m Southwest 1541m East
Visual and cultural designations		
Listed Buildings	None recorded within 250m	N/A
Agricultural and Habitat designations		
Agricultural Land Classification	Urban	Onsite
Environmental Stewardship Schemes	None recorded within 250m	N/A
Priority Habitat Inventory	Deciduous woodland (20)	Onsite (closest)
Geology 1:10,000 scale		
Artificial and made ground (10k)	Made Ground (undivided) (5)	Onsite (closest)
Superficial geology (10k)	Pelaw Clay Member – Clay (1)	Onsite
Bedrock geology (10k)	Pennine Middle Coal Measures Formation – Mudstone, Siltstone and Sandstone	Onsite
	North Britain Palaeogene Dyke Suite - Microgabbro	Onsite
	Pennine Middle Coal Measures Formation – Sandstone	Onsite
Bedrock faults and other linear features (10k)	Coal seam, inferred (5)	Onsite (closest)
	Normal fault, inferred (3)	Onsite (closest)
	Fossil horizon (2)	93m Southeast
Geology 1:50,000 scale		
Artificial and made ground (50k)	Made Ground (5)	Onsite (closest)
Superficial geology (50k)	Unknown Deposits (3)	Onsite (closest)
	Pelaw Clay Member (1)	Onsite
	Till, Devensian (3)	243m East (closest)
	Alluvium (1)	311m Northeast (closest)
Bedrock geology (50k)	Pennine Middle Coal Measures Formation – Sandstone	Onsite
	Pennine Middle Coal Measures Formation – Mudstone, Siltstone and Sandstone	Onsite
	Hebburn Dyke - Microgabbro	Onsite
Bedrock permeability (50k)	Fracture (high to low)	Onsite
Bedrock faults and other linear features (50k)	Coal seam, inferred (4)	Onsite (closest)
	Fault, inferred, displacement unknown (4)	Onsite (closest)
	Marine band (3)	103m Southeast (closest)
Natural ground subsidence		
Shrink swell clays	Negligible	Onsite
	Very low	Onsite
	Low	Onsite
Running sands	Negligible	Onsite
	Very Low	Onsite
Compressible deposits	Negligible	Onsite
	Very Low	Onsite
Collapsible deposits	Very low	Onsite
Landslides	Very Low	Onsite
Ground dissolution of soluble rocks	Negligible	Onsite

Table 2 is continued on the following page

NB Arbitrary potential hazard assessment: potentially significant (yellow), or unlikely to be significant (uncoloured). Potential receptors for contamination are highlighted blue.

Table 2 (ctd.): GroundSure Enviro+Geo Insight Summary:

Details		Feature			Location relative to site	
Mining, ground workings and natural cavities						
BritPits		Sandstone			278m North	
Surface ground workings		Pond (17) Unspecified Heap (4) Unspecified Ground Workings (5) Unspecified Pit (2) Cuttings (4) Unspecified Quarry (4) Refuse Heap (1) Cemetery (8)			Onsite (closest) Onsite (closest) Onsite (closest) 169m Northwest 171m North (closest) 171m North (closest) 179mNorthwest (closest) 203m West (closest)	
Underground workings		Unspecified Old Shafts (1) Unspecified Disused Shaft (1) Colliery (1)			566m South 571m South 988m Northeast	
Non-coal mining		None recorded within 1000m			N/A	
JPB mining areas		Not recorded onsite			N/A	
Coal mining		The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site.			Onsite	
Radon Risk						
Radon Risk		Between 1%-3% & less than 1%. No protection required			Onsite	
Soil chemistry						
Location	Arsenic mg/kg	Lead mg/kg	Bioaccessible Lead mg/kg	Cadmium mg/kg	Chromium mg/kg	Nickel mg/kg
On site	15	100 - 200	60 - 120	1.8	60 - 120	15 - 45
Railway infrastructure and projects						
Historical railway and tunnel features		Railway Sidings (2)			Onsite (closest)	
Railways		None recorded within 250m			N/A	

NB Arbitrary potential hazard assessment: potentially significant (yellow), or unlikely to be significant (uncoloured). Potential receptors for contamination are highlighted blue.

The GeoInsight report has highlighted no additional potential risks to the site or the intended development arising due to historical or current land uses and the site's geological setting beyond those already discussed. Additionally, a nearby stream has been highlighted as a possible receptor.

3.4 Coal Authority Report Summary

The Coal Authority (CA) report (see Appendix 3) states that:

- The property is in an area where underground coal mining has occurred in four seams of coal at a depth of between 220m to 400m, last worked in 1848. It suggests that movement associated with this activity should have since stopped.
- The coal authority report does not mention there is any probable unrecorded shallow workings beneath the site.
- There are no known coal mine entries within the boundary or within 20m of the site.
- There has been no damage notice or claim for any property within 50m of the site and no records of mine gas, subsidence or remedial works are recorded for the site.

- The report states that there have been no recorded historical opencast mine on site and no opencast coal mines are within 200m of site.

Based on the CA report, no significant risk to site has been identified and therefore no further action is required in regard to coal mining risk.

3.5 Walkover Survey Observations

A site reconnaissance visit was undertaken on the 25th September 2025 by Stuart Howe of Geoinvestigate.

The site was as described in Section 1 of this report comprising a community centre with associated facilities including soft landscaped areas and hardstanding access roads.

The site currently comprises an area of land some 4.58 ha in size with access from Mountbatten Avenue to the south. The site comprises the Clegwell & Hartleyburn Community Hub and Clegwell FC, with the groundcover comprising recreational fields and hardstanding areas. The sites topography generally level with some soil berms across the site. It is possible that some minor earthworks have occurred based on the lightly undulating site surface in areas.

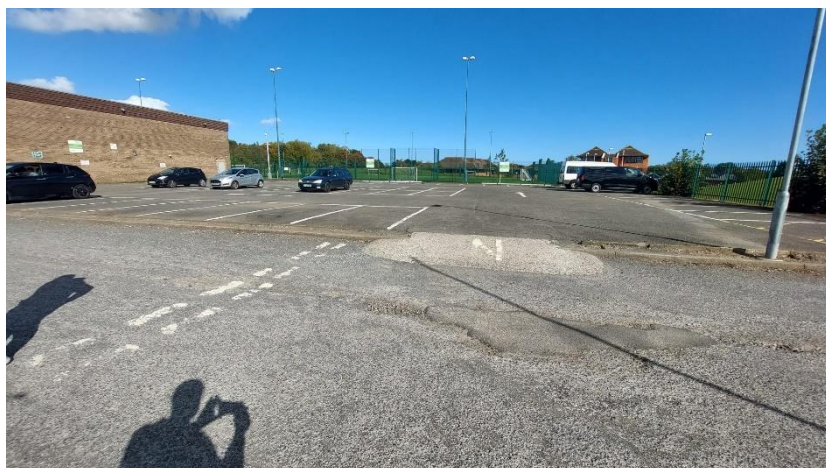
Access to the site is via a tarmacked road from the south which should provide adequate access for vehicles and/or plant.

Some large established trees have been left in place within and around the perimeter of the site.

The inspection of the surface of the site found no obvious evidence of physical hazards or odours, staining, or residues that might be indicative of the presence of chemical (including hydrocarbon) contamination. On the basis of the walkover inspection only, the risk of a serious contamination hazard occurring at this site would be assessed to be very low given the current condition of the site and use. The hazardous gas risk at the site, based solely on the findings of the walkover survey, would also be assessed to be low to moderate given potential gas sources existing beneath the site. The significant evidence of minor groundworks does indicate that significant made ground might be present.

The presence of trees might indicate a potential for vegetation influence on shrink-swell clays (if clay soils are present) and potentially soil heave following vegetation removal that has taken / may take place.

It is noted however that despite the apparent lack of evidence of any contamination encountered during the visual inspection described above, any planning application is likely to require confirmation that no contamination is likely to have occurred. Photographs taken during the walkover survey are presented below and on the following page:



Photograph 1: View of Hebburn Community Centre car park.



Photograph 2: View of the location of the proposed boxing club building.



Photograph 3: View of the location of the new changing rooms / clubhouse

4. Qualitative Risk Assessment

4.1 Methodology

In order to assess the potential risks to the site, information obtained on the potential sources of hazard identified in Section 3 have been reviewed and applied to a model of the site. This allows an assessment of the potential sources of contamination to be made by examining the potential pollutant linkages between these and the receptors at the site.

The risk assessment presented comprises a source-pathway-receptor model developed in the context of the intended end use of the site (commercial use).

It is noted that an alternative land use would present different pollutant linkages with more or less vulnerable receptors and differing pathways for exposure. Were the intended land use to be changed at the site, a revised risk assessment would be required.

Identified potential sources of hazard or contamination, vulnerable receptors, and possible pathways by which they may be exposed are presented in the Conceptual Ground Hazard Model (CGHM) presented in Figure 1, see Section 4.2.

In addition to risks to human health and controlled waters and aquifers posed by contamination and ground gas, the CGHM examines the potential risks to the construction of the development including its buildings from geological or geotechnical hazards.

It allows an overall assessment to be made of the potential hazards and risks to the site and the proposed development with respect to “fitness for purpose”. Bedrock geology which is anticipated to underlie the site is assumed to exhibit potentially variable permeability and only limited superficial geology is expected.

4.2 Risk Assessment

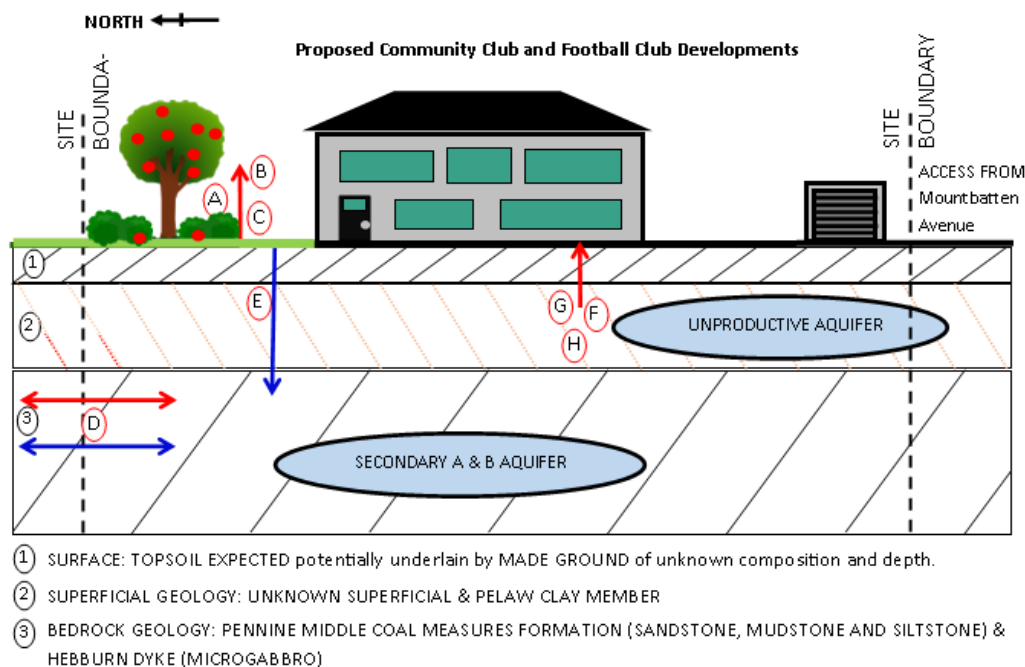
The desk study has highlighted the presence of possible sources of contamination which could potentially affect (or have affected) the site, primarily comprising the historical ponds onsite and cuttings.

Contamination from external sources would require a favourable pathway for migration into the site and the majority of external sources of contamination are likely to be too distant or minor to pose any significant risk.

BGS mapping and borehole records both suggest that the superficial deposits will comprise a mixture of clay soils which would have intrinsically low permeability and areas of none recorded superficial deposits and therefore an unknown permeability. As such, it is unknown whether a plausible pathway for contamination migration into or out of the site could exist and thus the risk of contamination migration is probably very low to moderate.

Potential receptors at the site would include the end users of the site (commercial), workers employed in the construction of the new development, the buildings themselves and their services, plants and vegetation, neighbouring sites (and their users/occupants), nearby surface water and ground water at depth. A representation of the potential hazards and pollutant linkages is shown in Figure 1 overleaf.

Figure 1 – Conceptual Ground Hazard Model of site including a Source, Pathway and Receptor Model



IDENTIFIED HAZARDS Including Potential CONTAMINATION SOURCES

- Possible presence of made ground and historical contamination thereof by past land use and development and/or demolition works at the site.
- Potentially contaminative historical land uses on nearby/adjacent sites including; Hebburn hall ponds, cuttings, Hebburn community school, electrical substation and residential developments.
- Potential for made or infilled ground to generate hazardous gases either within the study site or on adjacent/nearby sites.
- Possible hazardous gas risk from shallow historical coal mining.
- Potential ground stability issues associated with; vegetation influence and shrink-swell clays, potentially weak and compressible made ground and compressible natural deposits.

IDENTIFIED RECEPTORS and ASSOCIATED PATHWAY

- A—** End Users through Direct Contact / Inhalation / Ingestion. Buildings and hard standing will encompass some of the site, removing any pathway to end users through direct contact in these areas.
- B—** Plants and Trees through uptake, likely given the intended end use and proposed development layout.
- C—** End Users through cultivation and consumption of vegetables / fruit. Considered possible given the intended end use and proposed development layout.
- D—** Neighbouring Sites through lateral migration (in soil and water, including surface water run off).
- E—** Groundwater through leaching of sub-soil.
- F—** Buildings and services through direct contact.
- G—** End users and buildings through ground gas migration.
- H—** Geotechnical risks to buildings and services.

The CGHM and the summary table below (Table 3) present the most likely potential sources of contamination, gas or geotechnical risk that are considered to be possible either within or near to the study site.

The identified potential contamination sources could feasibly have given rise to harmful and potentially mobile contamination of made ground and/or natural deposits which might underlie the site. The superficial geology is a mixture of unknown superficial geology, meaning permeability is unknown. Other on superficial deposits are anticipated to primarily comprise low permeability clay soils and so

significant contamination migration into or out of the site is currently thought unlikely to be possible / have occurred.

Note that, due to the potentially contaminative historical land uses / features that have been identified within the study site boundary (historical ponds), the risk to external sites or ground/surface waters through contamination migration *from* the study site is currently expected to be more significant/likely than any risks posed *to* the study site from external sources.

Therefore, assuming the worst-case scenario, the potential for harmful contamination to exist at the site from historical sources is assessed to be moderate (as opposed to very low or low) owing to the potentially contaminative activities located near to and/or within the study area (primarily concerning the potentially infilled ponds and groundworks associated with constructing these).

The hazardous gas risk is assessed to be Moderate due to the potential for significant (>1.0m deep) made/infilled ground to be present.

The actual current level of risk to the development and its users can only be ascertained for certain through confirmation of the ground conditions by a Phase 2 intrusive investigation, including a contamination survey and potentially a gas monitoring survey.

Table 3: Summary of Conceptual Ground Hazard Model

Potential Source	Nature of Hazard	Associated Contaminants	Pathway	Receptor	Preliminary Risk Rating
Historical land use and development. Possible made ground. Onsite Ponds and groundworks	Inorganic and organic chemical contaminants within soil.	-Trace metals -PAHs -Petroleum hydrocarbons -Asbestos	-Direct human contact -Ingestion of soil -Ingestion of dust -Inhalation of vapour -Leaching into ground or surface waters	-Site Operatives -End Users -Vegetation -Controlled waters -Structures and services -Neighbouring sites/users	Moderate
Possible made ground	Hazardous ground gas migration.	Landfill-type gases (CO ₂ , CH ₄ etc.)	-Inhalation -Explosion risk	-Site Operatives -End Users -Structures	Moderate
Local Geology	Radon gas migration	Radon gas	-Inhalation	-End Users	Low
Shallow coal mine workings	Ground instability via risk of settlement / collapse	N/A	Direct	-End Users -Structures	Very Low
Shrink-swell clays	Ground instability vegetation influence / heave	N/A	Direct	-End Users -Structures	Low
Infilled ground	Ground instability via risk of settlement	N/A	Direct	-End Users -Structures	Moderate

NB. Arbitrary potential hazard assessment: High (Red), Moderate (Amber), Low (Yellow), Very Low (Green), Negligible (uncoloured)

5. Conclusions

A summary of the anticipated ground conditions, risks and implications based on the findings of Sections 3 and 4 of this report is presented in Table 4 below:

Table 4: Summary of Phase 1 Desk Study Findings

Concern	Desk Study Finding	Initial Risk Assessment	Potentially Useful Action in a Phase 2 Site Investigation
Normal Foundations	Bedrock expected to be present at potentially shallow depth with possible thin drift deposits. Consideration should be made to vegetation influence if clay soils are encountered. A potential for deeper made/infilled ground has been identified underlain by competent natural deposits at unknown depth.	Likely to be suitable	Borehole investigation to confirm strength of ground with regard to supporting building loads. Soil analysis might also be included to establish risk with regard to shrink-swell clay to rule out vegetation influence, or assess strength of any potentially weaker soils.
Soakaways	Sandstone/mudstone/siltstone bedrock and any potential made ground unlikely to offer sufficient permeability. Clay soils unlikely to offer sufficient permeability.	Unlikely to be suitable	Water infiltration testing to quantify permeability of superficial deposits if granular strata are encountered.
Radon Gas	Between 1% and 3% of properties affected	Low	None. No radon protection required.
Chemical Contamination	Historical nearby and on-site land uses potentially giving rise to a range of inorganic and organic contaminants including asbestos, metals/metalloids, PAHs.	Moderate	Chemical analysis for potential contaminants in soil samples (and potentially leachate). Samples should be recovered from made ground (if found) and topsoil, and also potentially underlying natural sub soils to check for potential leaching and/or migration into the site from possible external sources.
Hazardous Gas	Potential for hazardous gas to be generated in made/infilled ground deposits.	Moderate	Ground gas monitoring wells in shallow boreholes to monitor CO ₂ , CH ₄ content etc.
Ground Instability/ subsidence	Potential for vegetation influence on shrink-swell clays which may be present, including risk of soil heave.	Low	Borehole investigation to confirm strength of both natural and made ground and shrinkage potential of any cohesive soils.
	Potential for significant deposits of compressible made/infilled ground.	Moderate	
	Potential for unrecorded shallow coal mining.	Very Low	None Required

The initial risk assessment provided above is tentative as it is based only on the Phase 1 desk study. The risks will need to be reassessed and may perhaps change significantly becoming higher or lower depending on the results of the Phase 2 intrusive investigation and contamination/gas survey, should these be undertaken.

6 Recommendations

In light of the Phase 1 desk study findings, it is recommended that a Phase 2 investigation be undertaken at the site to better explore the possible risks that have been identified. This should include contamination analyses and ground gas monitoring together with a geotechnical appraisal of the site to establish correct

foundation requirements. As there are relative uncertainties, this work is recommended in order to establish the actual site conditions and to properly assess both geotechnical and environmental risks.

The Phase 2 investigation should be designed to focus on the potential contaminants highlighted in the CGHM (Figure 1 and Table 4). As there is a potential hazardous gas risk, a gas survey is recommended.

Table 5: Proposed Phase 2 Site Investigation Specification

Action	Quantities	Justification/Details
Window Sampling Boreholes	Up to 6 boreholes. (up to 4-5m in depth – if achievable)	Establish actual ground conditions and confirm strength of ground. Retrieve samples of possible made ground and natural soils for geotechnical testing and contamination analysis. Potentially recover ground water samples if encountered. Installation of ground gas monitoring wells (if appropriate).
Hand excavated trial pits	Up to 5-6 (up to 1m in depth – if achievable)	Further inspect condition and composition of soils and recover additional samples for contamination analyses, including in locations which may be difficult for plant to access.
Chemical Contamination Analysis of Soils and Leachate (and possibly ground water if pertinent)	Up to 6 No. samples from topsoil and/or made ground at shallow depth (<1m) and potentially also deeper natural strata or made ground (if encountered).	Quantify risk posed to receptors identified in CGHM (see Figure 1) for revised risk assessment. Determinands should include a range of metals/metalloids, speciated PAH content, petroleum hydrocarbon content, BTEX, asbestos presence, and soil organic matter content (to aid in revised risk assessment).
Gas monitoring	Up to 6 No. visits over 3 months. Preferably including occasions of <1000mb and after sharp drop (may only be required in made ground encountered at site).	Quantify risk posed by potential hazardous gas from made/in-filled ground or shallow coal mining. Possible analysis of Total Organic Carbon (TOC) to support gas measure recommendations (or in the absence of gas monitoring data) using guidance published in CL:AIRE research bulletin RB17.
Geotechnical Testing	Up to 60+ No. Up to 5 No.	Moisture content determination to classify nature of soils. Atterberg Limit determinations to assess the shrinkage and swelling characteristics of the ground should clay soils be encountered.
Provision of Factual and Interpretive Report	N/A	Presentation of findings and implications including: • Site plan • Borehole and trial pit logs • Results of geotechnical testing • Contamination analysis results • Ground gas measurements (if appropriate) • Revised CGHM and chemical contamination risk assessment including appropriate soil assessment criteria. • Advice regarding any necessary remediation/validation • Advice regarding foundation design etc.

END OF REPORT



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APPENDIX 1

Historical Map Record

Site Details:

Clegwell & Hartleyburn
Community hub, Mount Batten
Avenue, Hebburn, NE31 2QP

Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1856-1857

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1856
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Surveyed 1857
Revised 1857
Edition N/A
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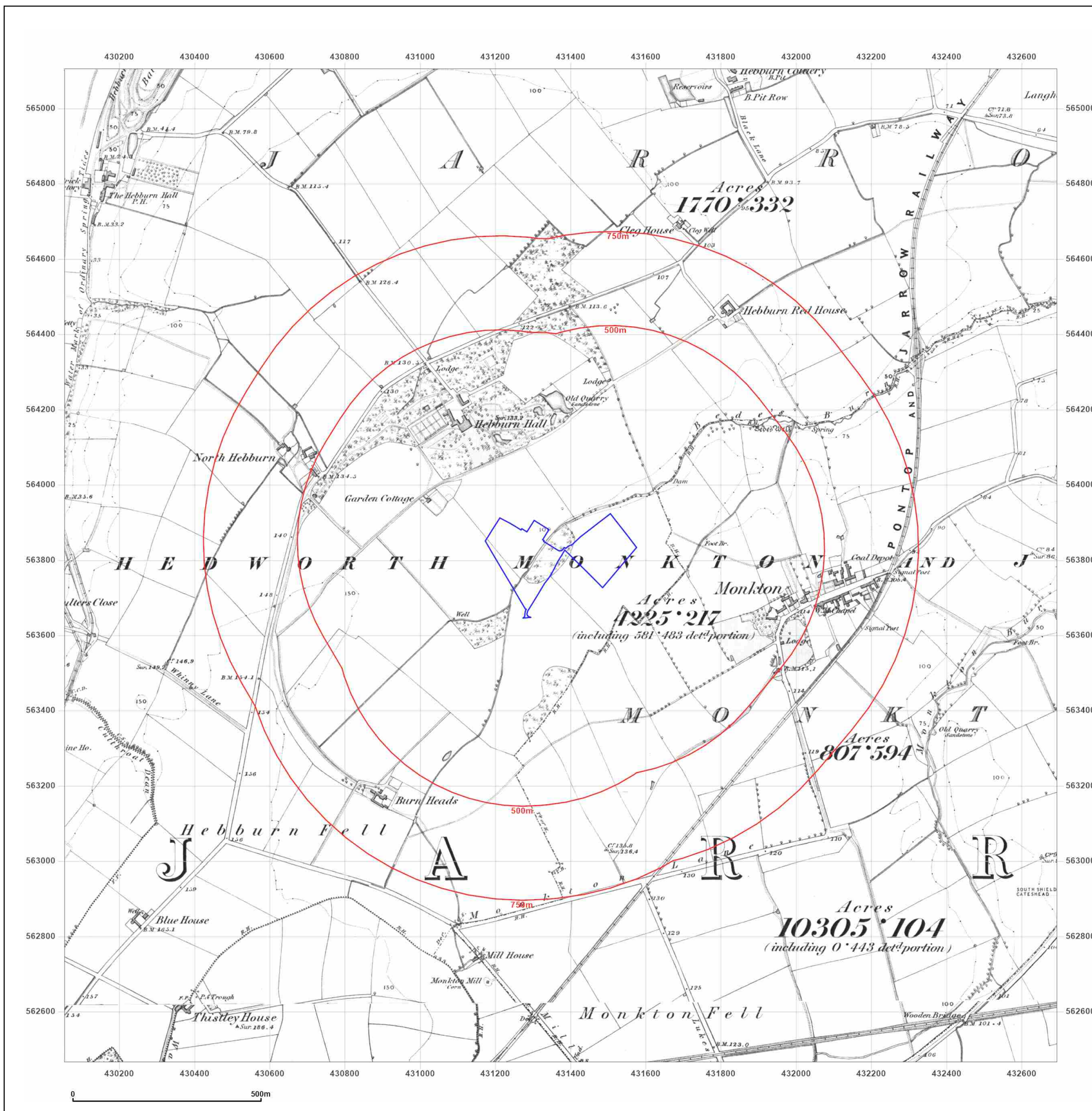


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Site Details:

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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1895

Scale: 1:10,560

Printed at: 1:10,560



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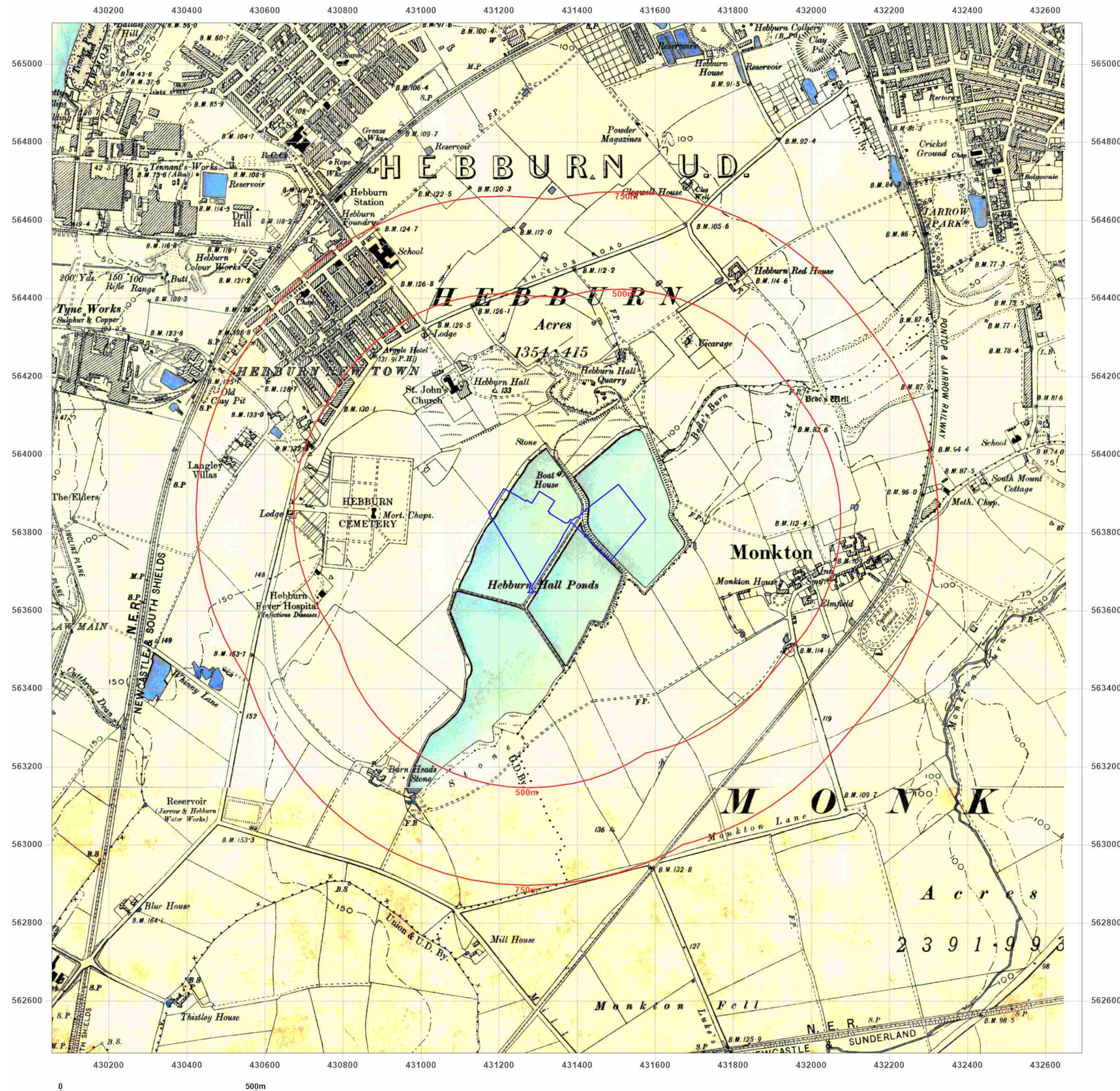


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1895-1898

Scale: 1:10,560

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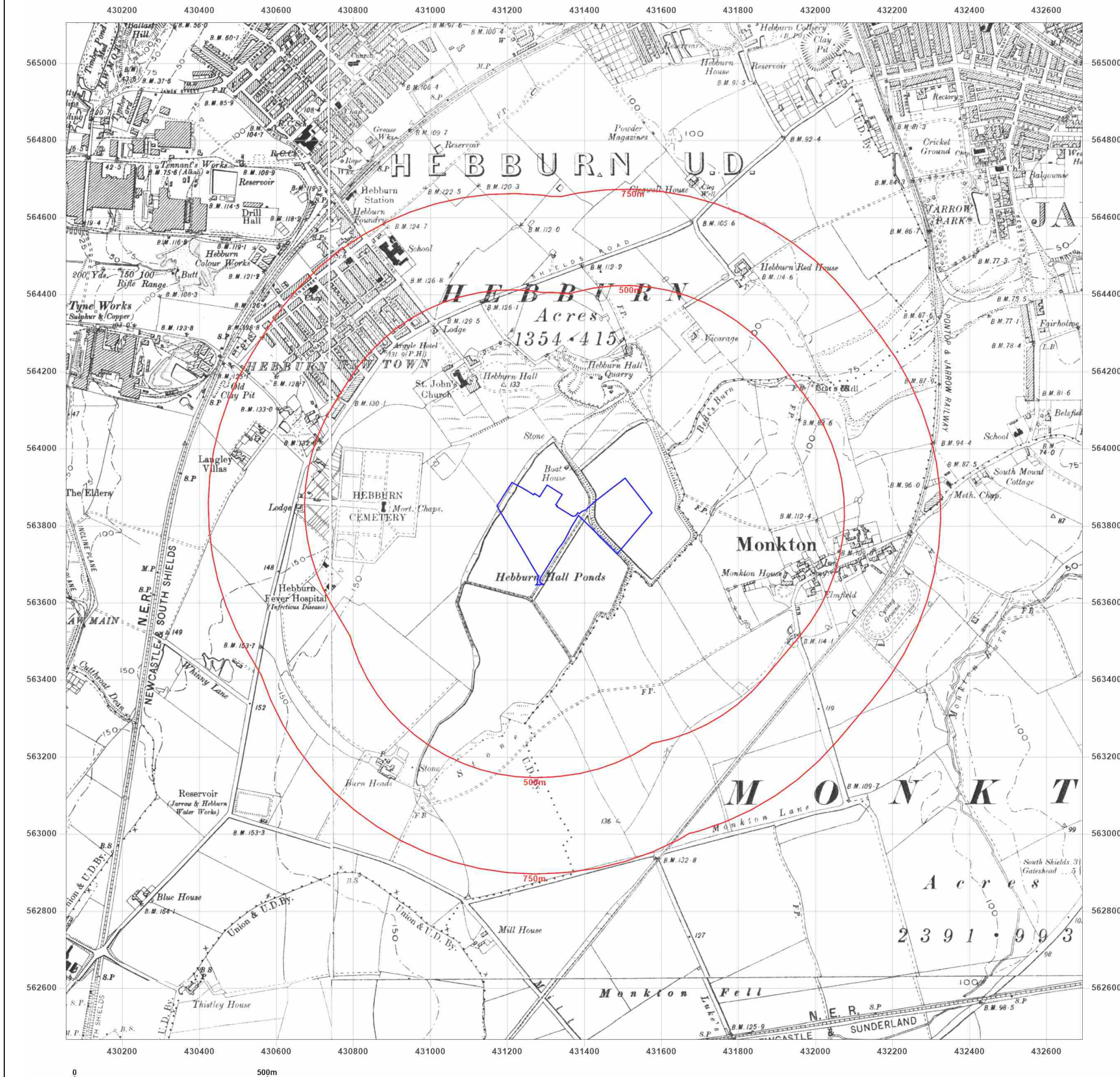


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1913-1914

Scale: 1:10,560

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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1921

Scale: 1:10,560

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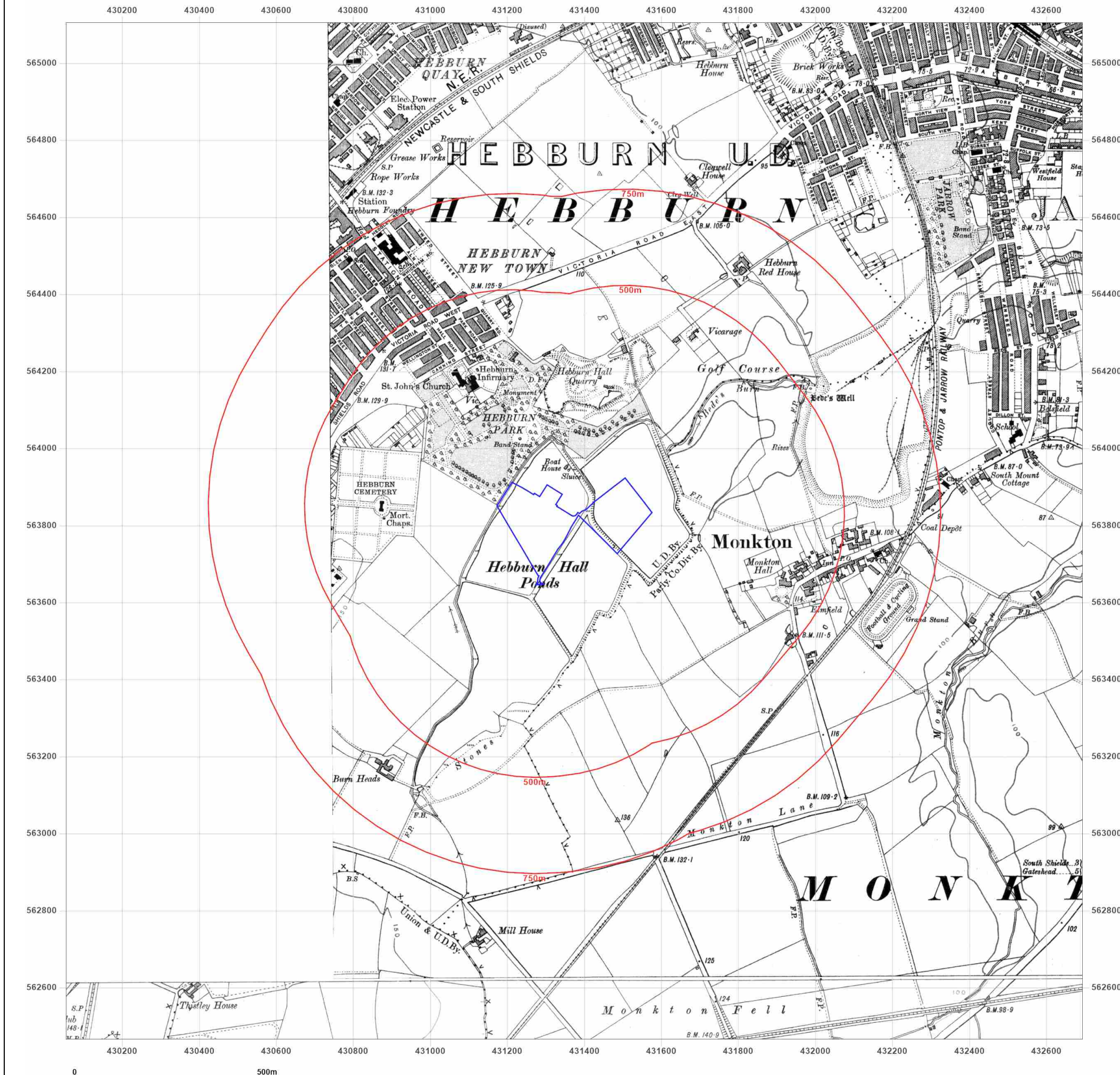


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1921

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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1938

Scale: 1:10,560

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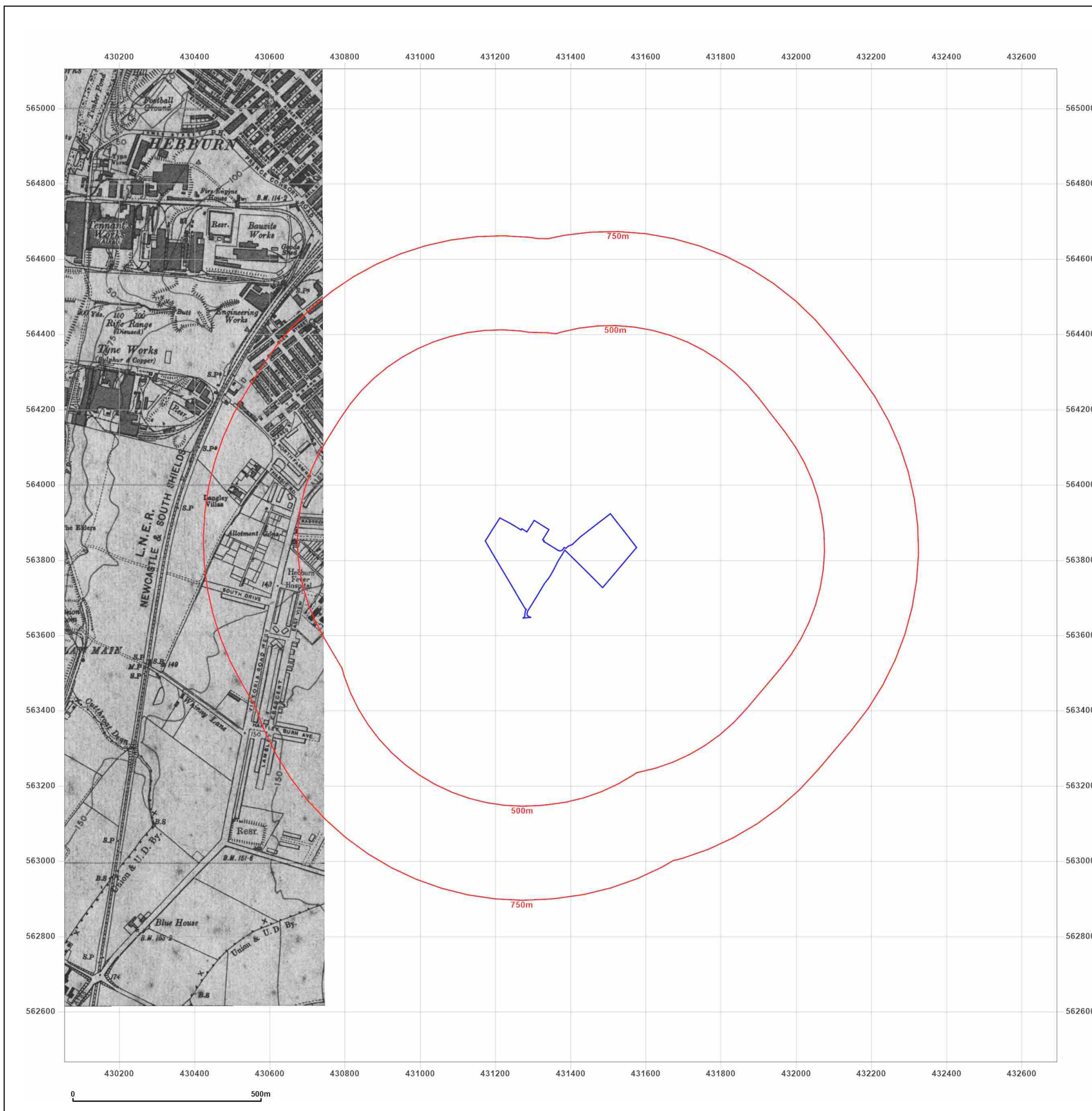


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Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1938

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Grid Ref: 431373, 563785

Map Name: Provisional

Map date: 1951

Scale: 1:10,560

Printed at: 1:10,560



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Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: Provisional

Map date: 1965-1967

Scale: 1:10,560

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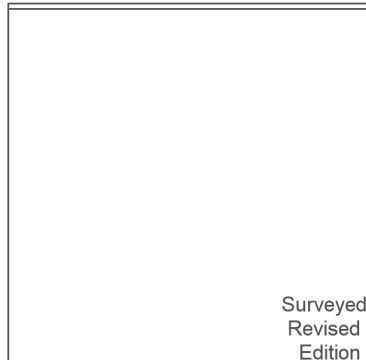
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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: National Grid
Map date: 1973
Scale: 1:10,000
Printed at: 1:10,000



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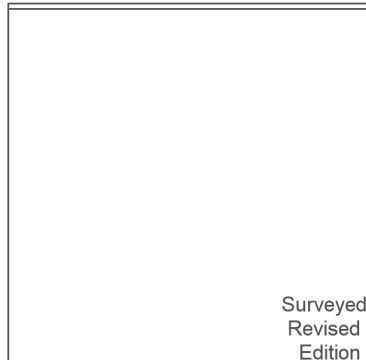
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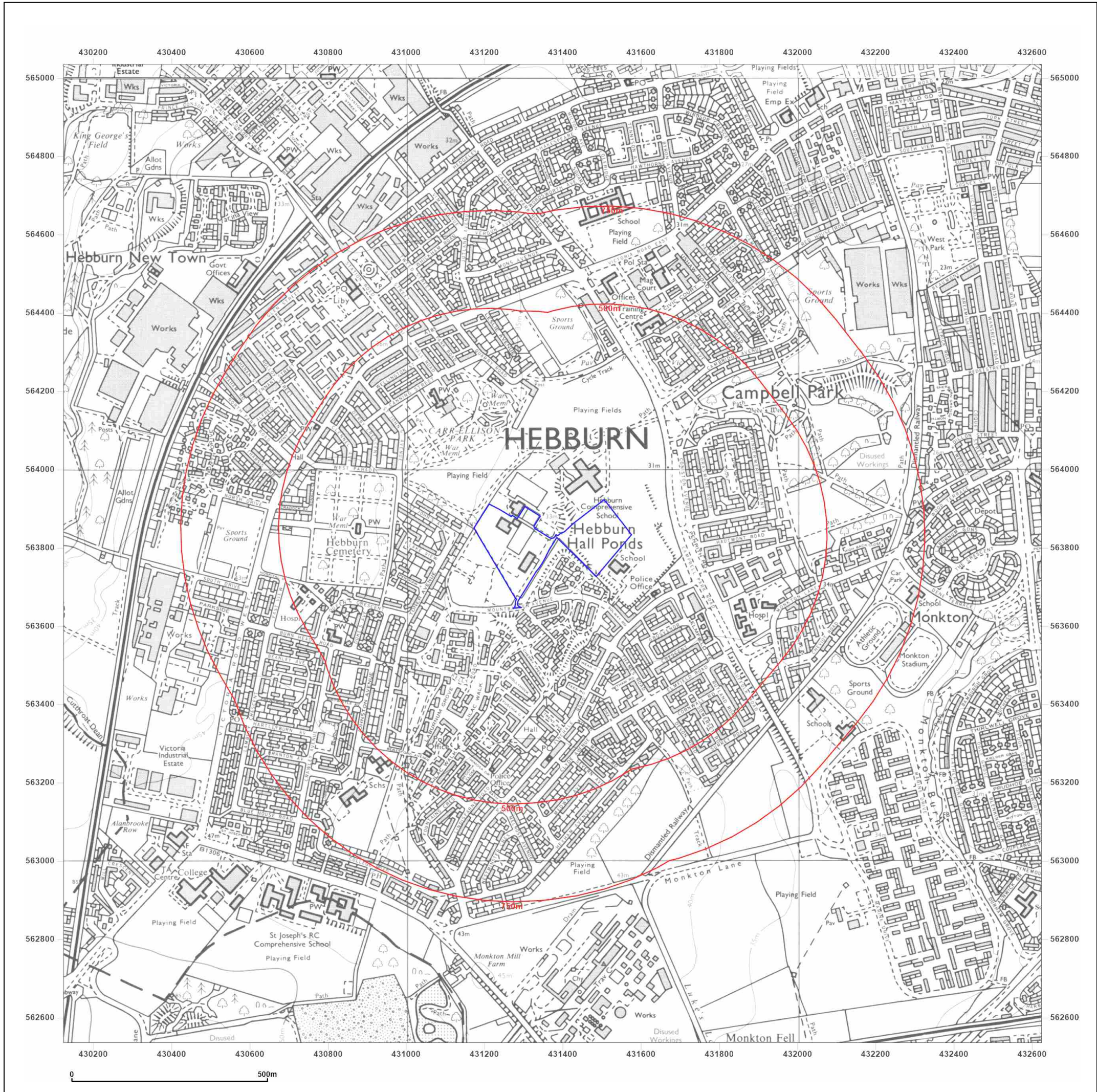


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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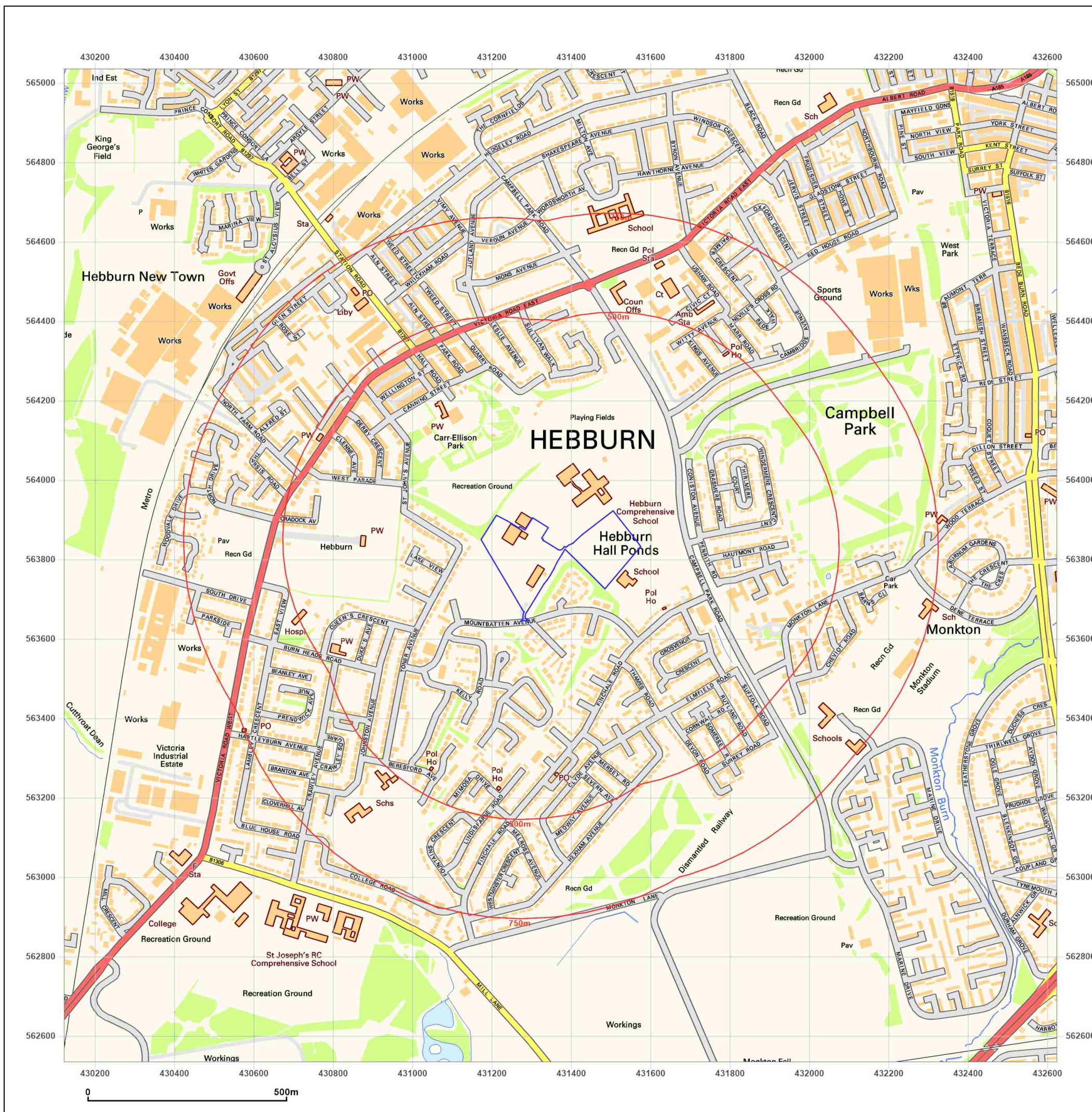


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010

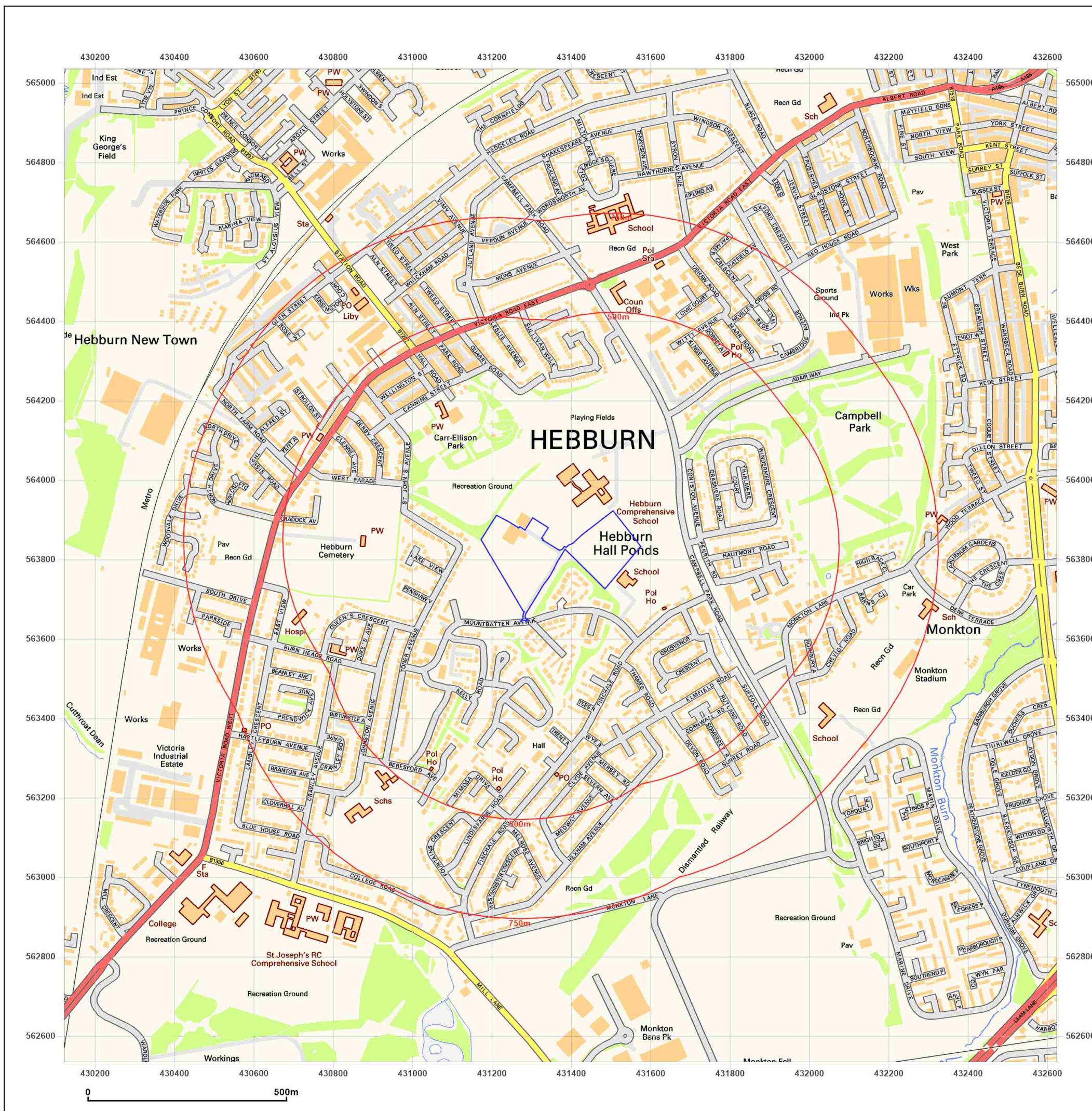


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE
Grid Ref: 431373, 563785

Map Name: National Grid

Map date: 2025

Scale: 1:10,000

Printed at: 1:10,000



2025

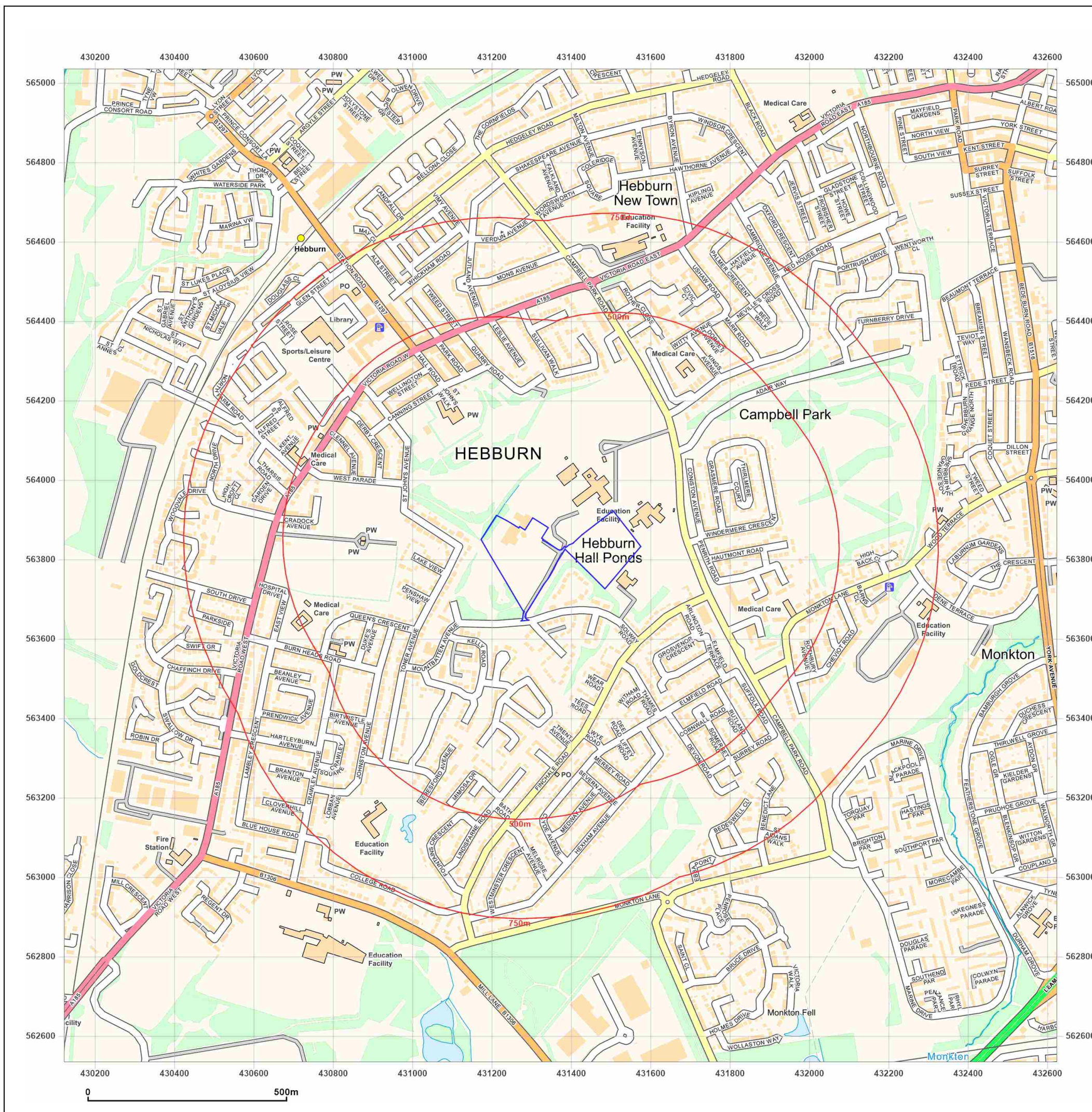


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_1_1
Grid Ref: 431123, 563785

Map Name: National Grid

Map date: 1956

Scale: 1:1,250

Printed at: 1:2,000



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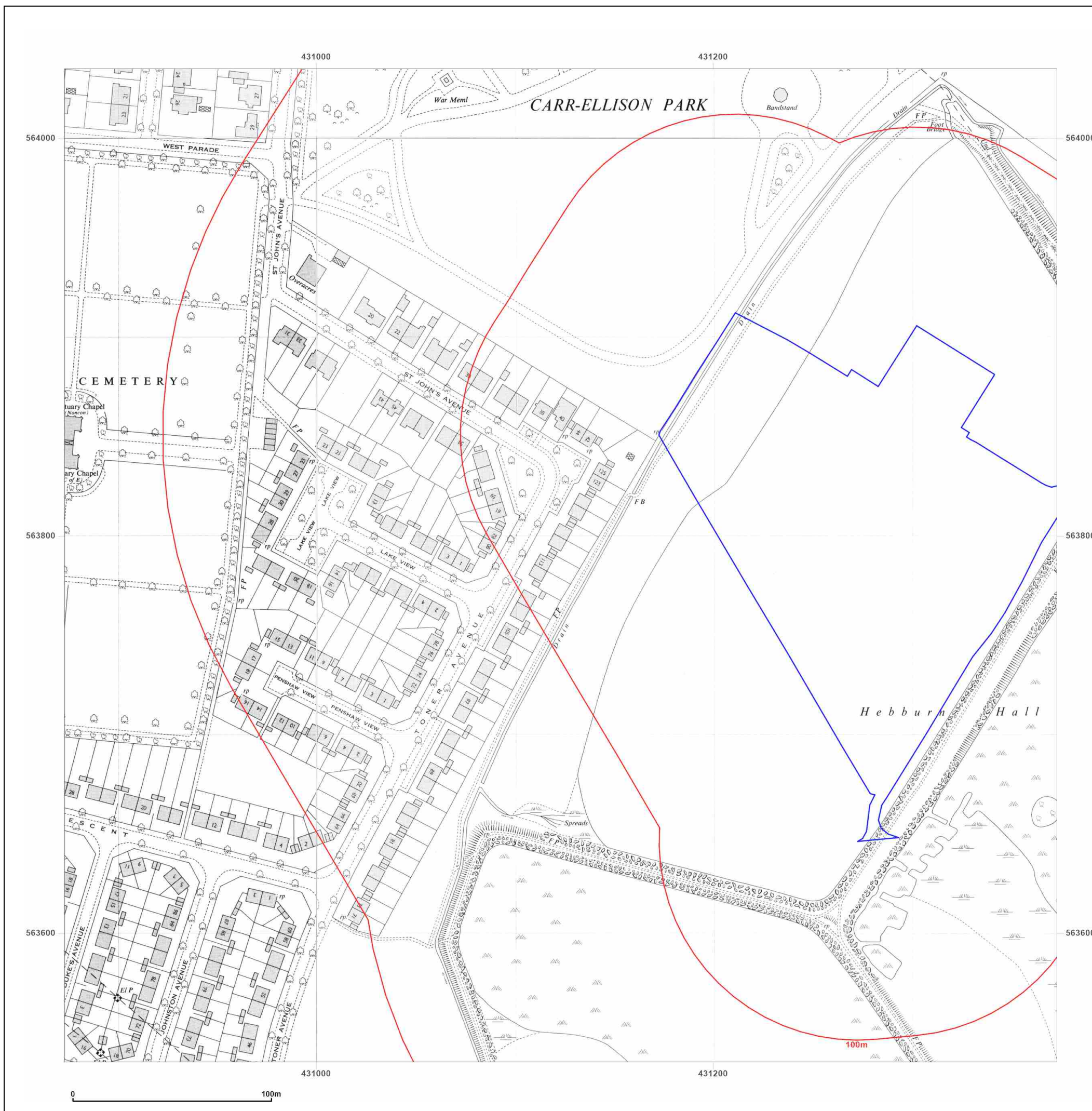


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_1_1
Grid Ref: 431123, 563785

Map Name: National Grid

Map date: 1957-1958

Scale: 1:1,250

Printed at: 1:2,000



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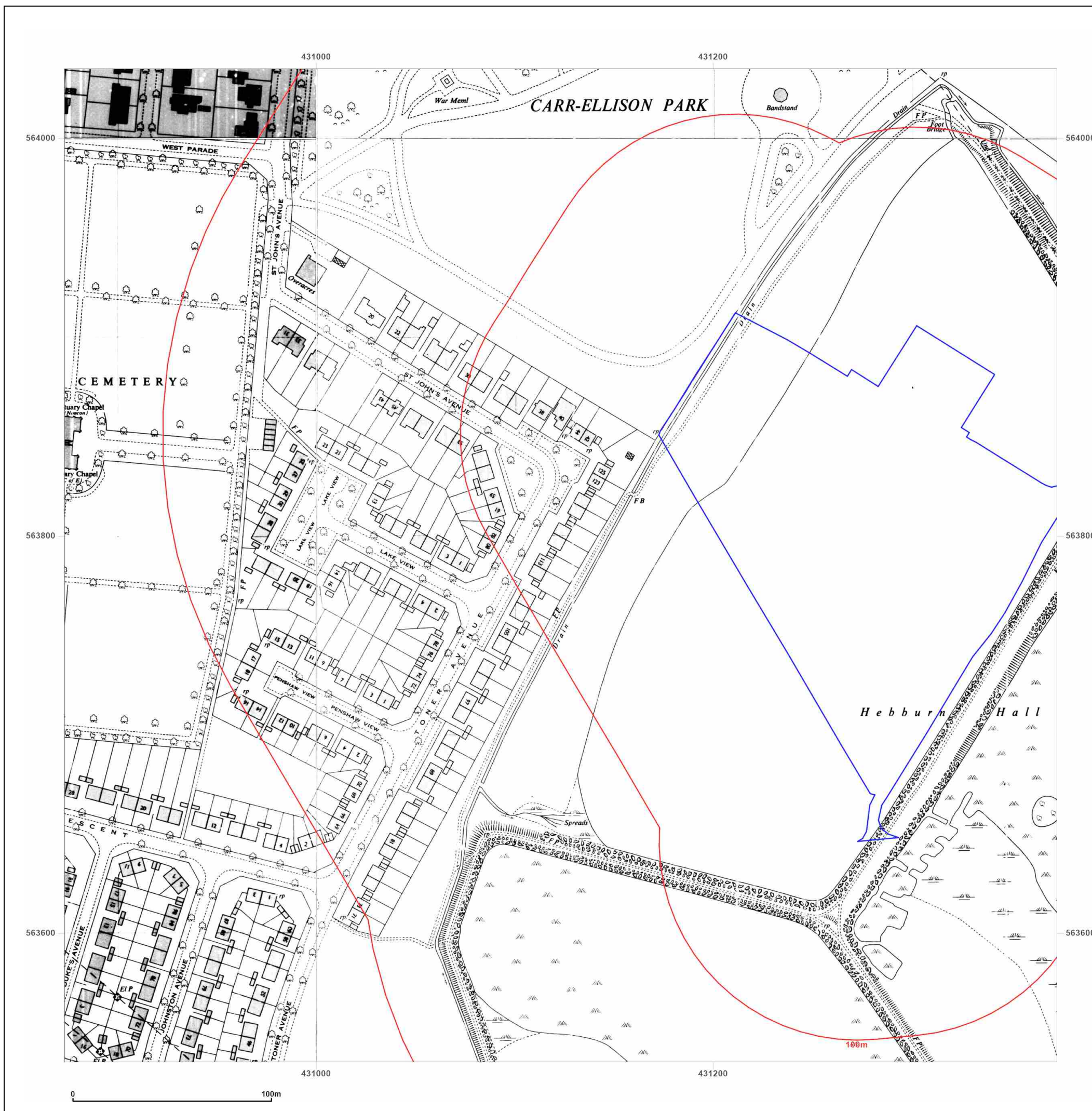


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_1_1
Grid Ref: 431123, 563785

Map Name: National Grid

Map date: 1967

Scale: 1:1,250

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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_1_1
Grid Ref: 431123, 563785

Map Name: National Grid

Map date: 1968-1973

Scale: 1:1,250

Printed at: 1:2,000



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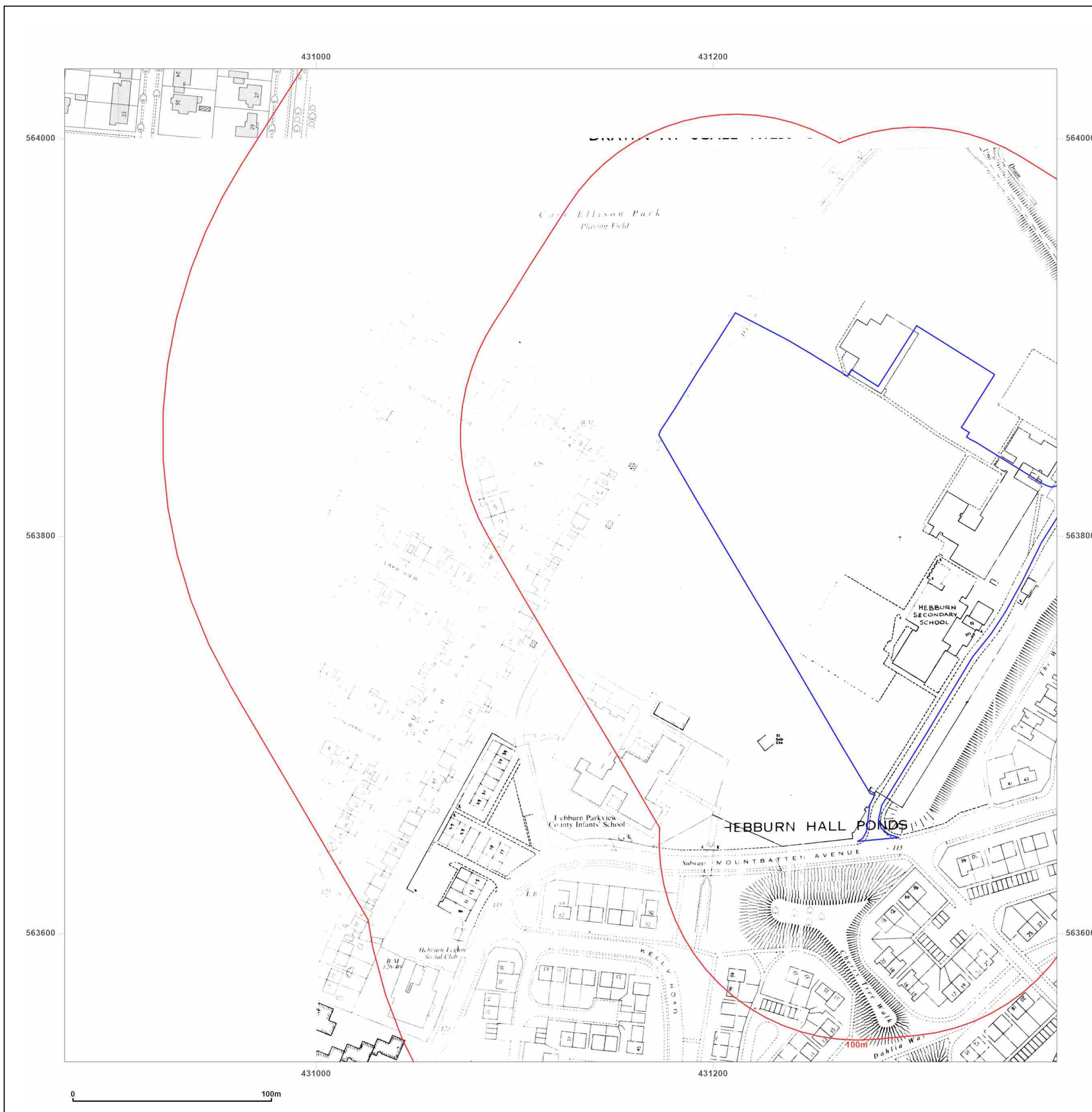


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_1_1
Grid Ref: 431123, 563785

Map Name: National Grid

Map date: 1974-1975

Scale: 1:1,250

Printed at: 1:2,000



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Revised N/A
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Revised N/A
Edition N/A
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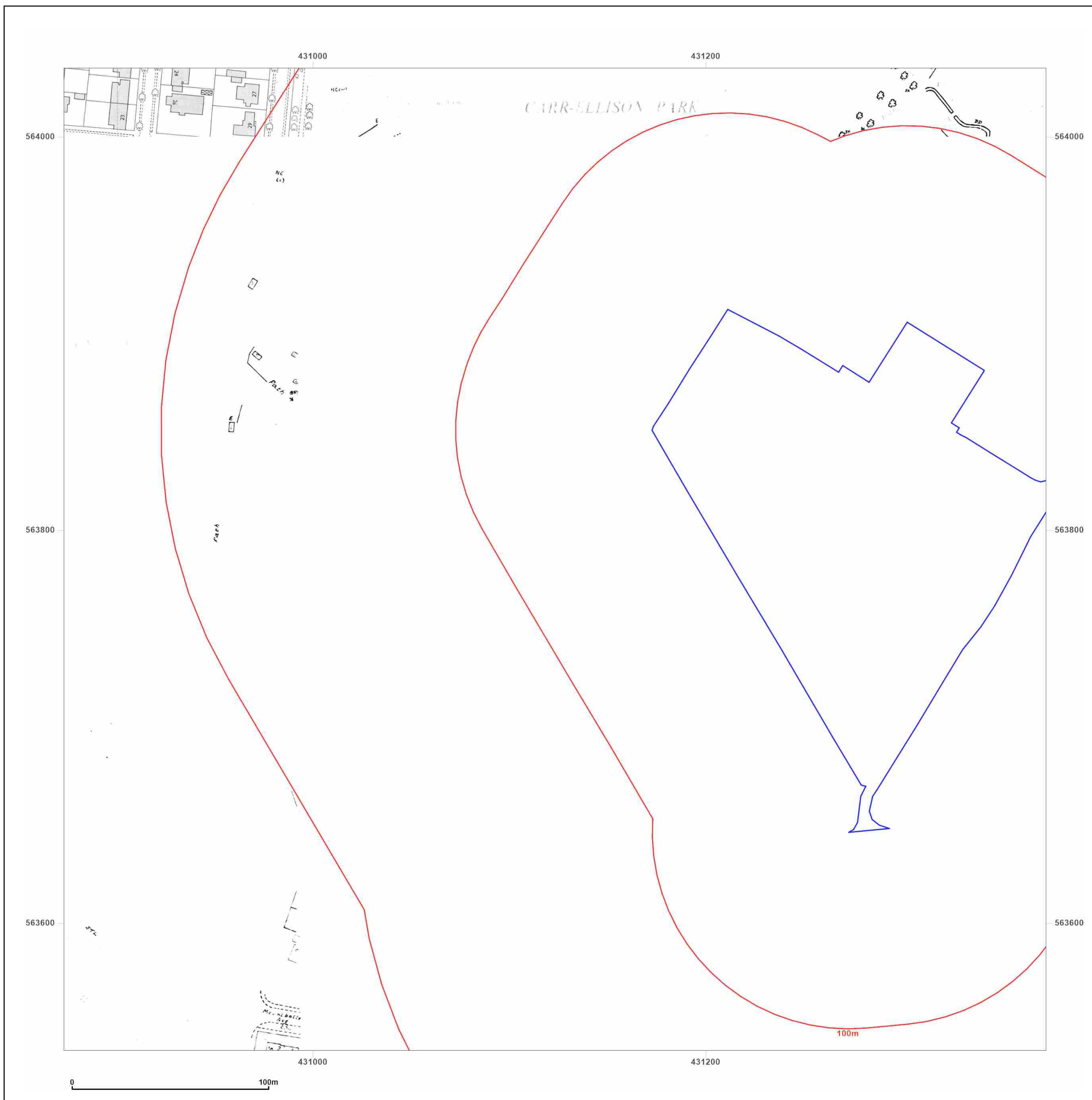


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_1_1
Grid Ref: 431123, 563785

Map Name: National Grid

Map date: 1976-1979

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_1_1
Grid Ref: 431123, 563785

Map Name: National Grid

Map date: 1982-1985

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1982
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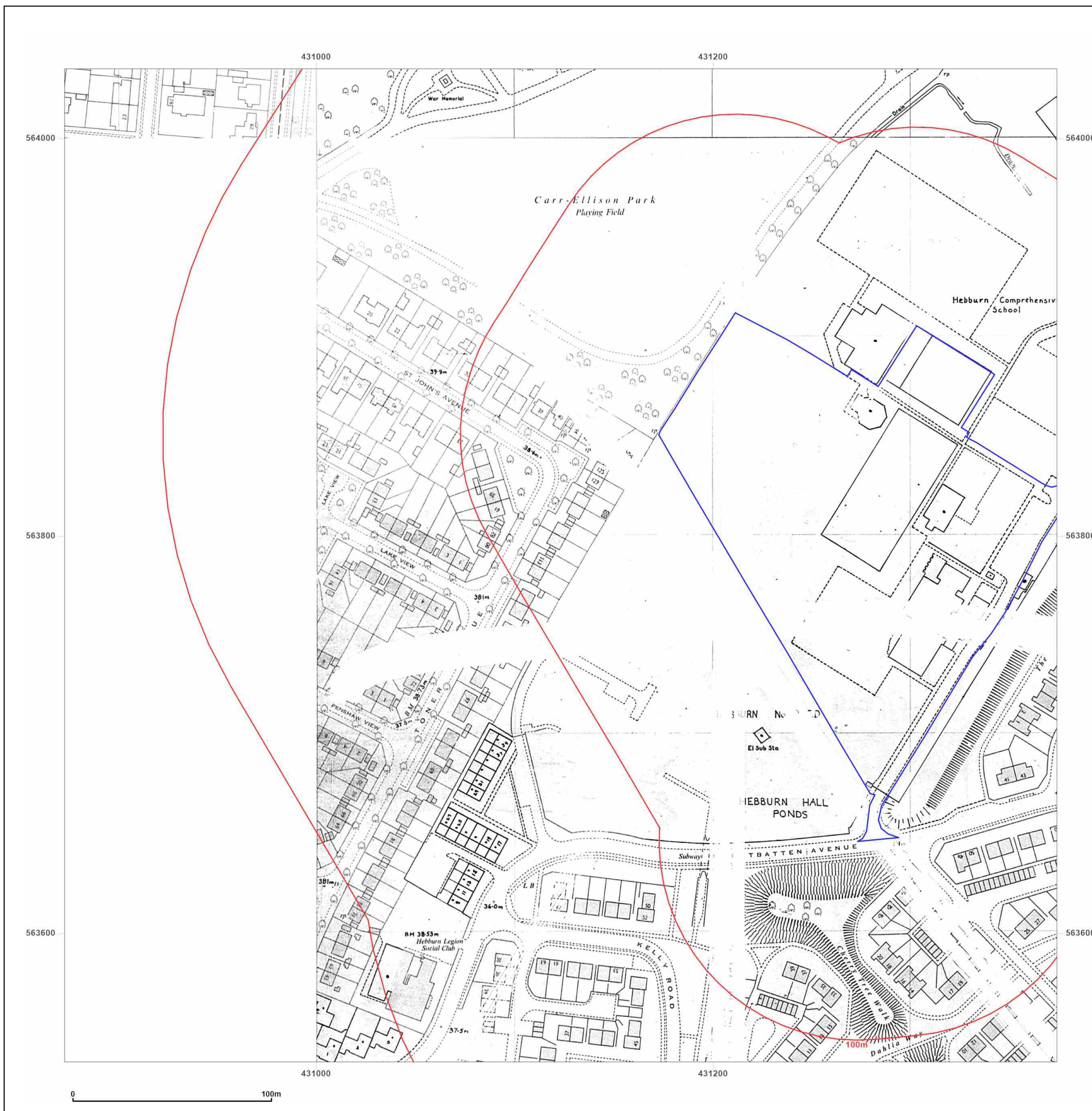


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Report Ref: GS-HXD-YKG-824-7PE_1250_1_1
Grid Ref: 431123, 563785

Map Name: National Grid

Map date: 1982-1985

Scale: 1:1,250

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Site Details:

Clegwell & Hartleyburn
Community hub, Mount Batten
Avenue, Hebburn, NE31 2QP

Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_1_1
Grid Ref: 431123, 563785

Map Name: National Grid

Map date: 1988-1991

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1956
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Edition N/A
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Surveyed N/A
Revised N/A
Edition N/A
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Surveyed 1963
Revised 1991
Edition N/A
Copyright 1991
Levelled 1963

Surveyed 1956
Revised 1987
Edition N/A
Copyright 1988
Levelled 1963

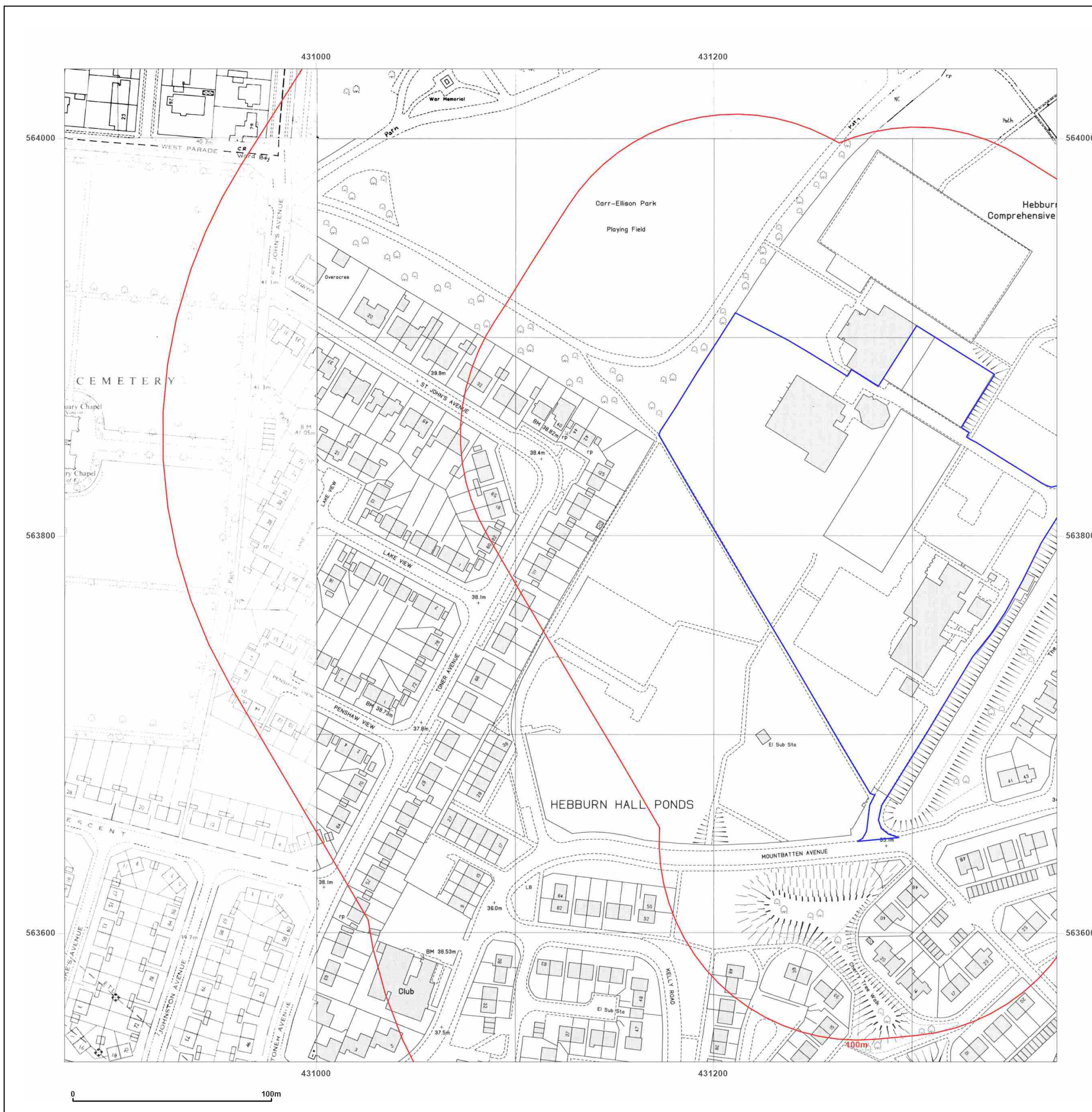


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_2_1
Grid Ref: 431623, 563785

Map Name: National Grid

Map date: 1956

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Levelled 1939

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1939

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1939

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1939

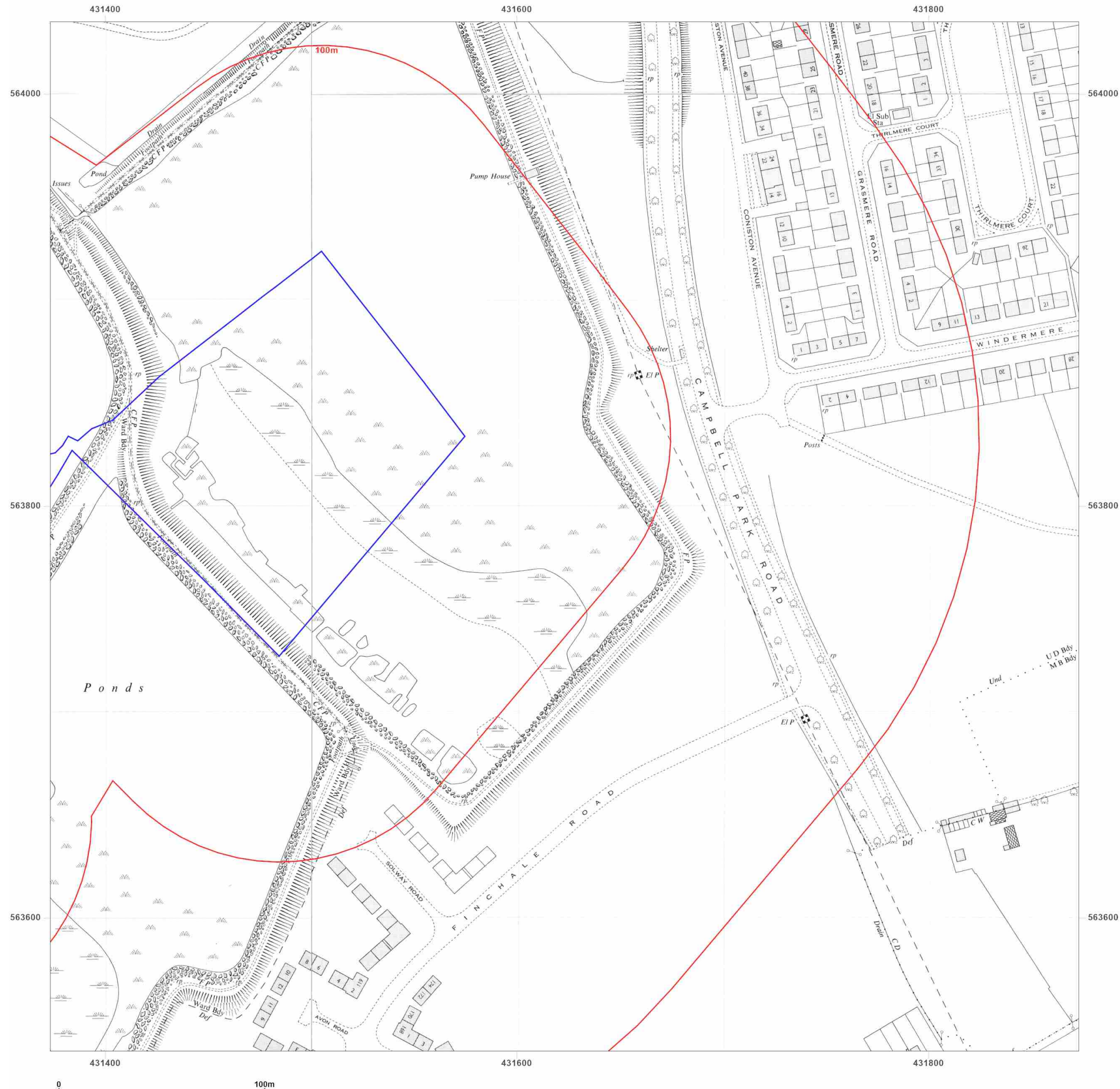


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Site Details:

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Avenue, Hebburn, NE31 2QP

Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_2_1
Grid Ref: 431623, 563785

Map Name: National Grid

Map date: 1957-1958

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed N/A
Revised N/A
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Revised N/A
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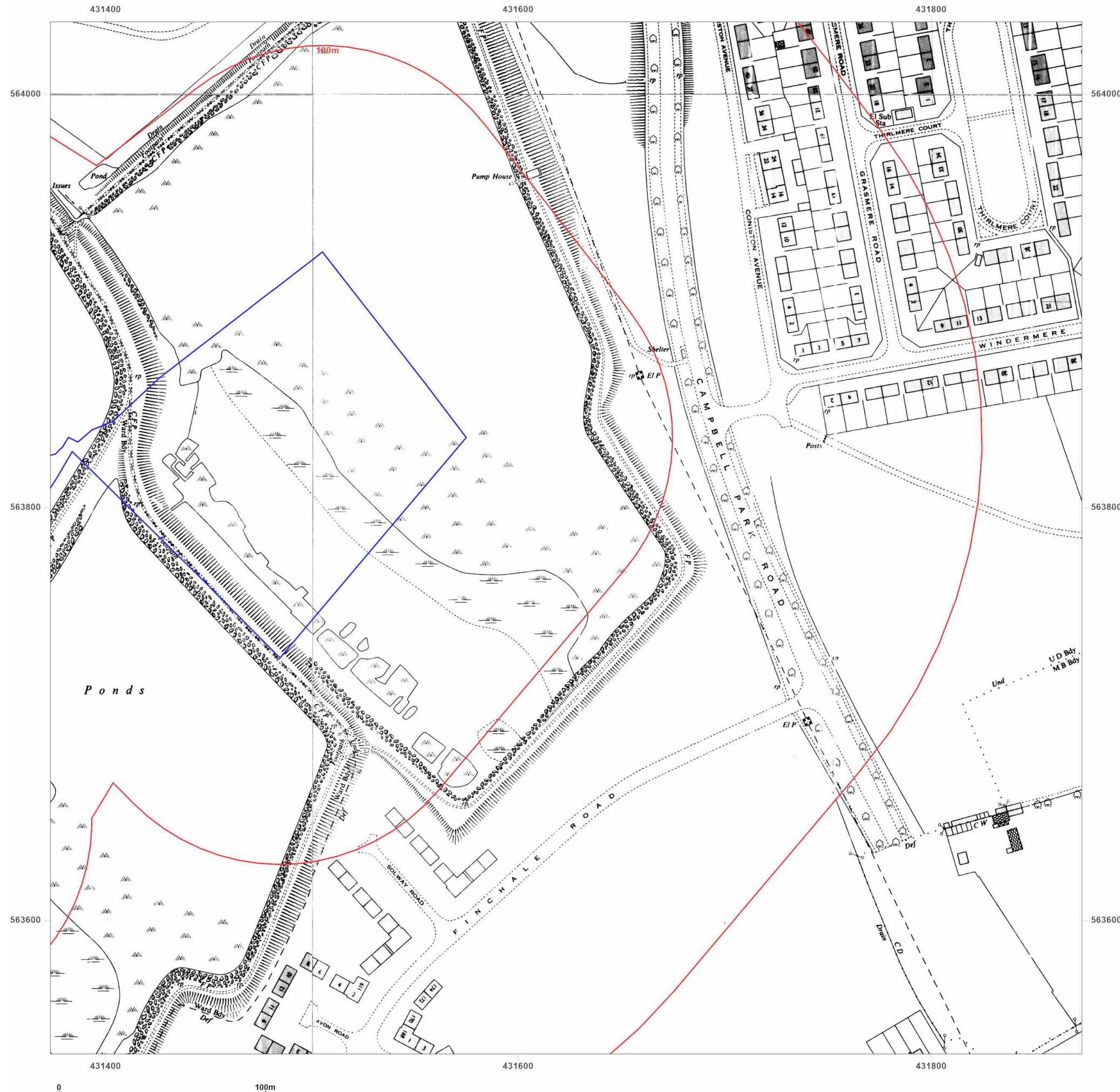


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_2_1
Grid Ref: 431623, 563785

Map Name: National Grid

Map date: 1962-1967

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1956
Revised 1966
Edition N/A
Copyright 1967
Levelled 1963

Surveyed 1956
Revised 1962
Edition N/A
Copyright 1962
Levelled 1957

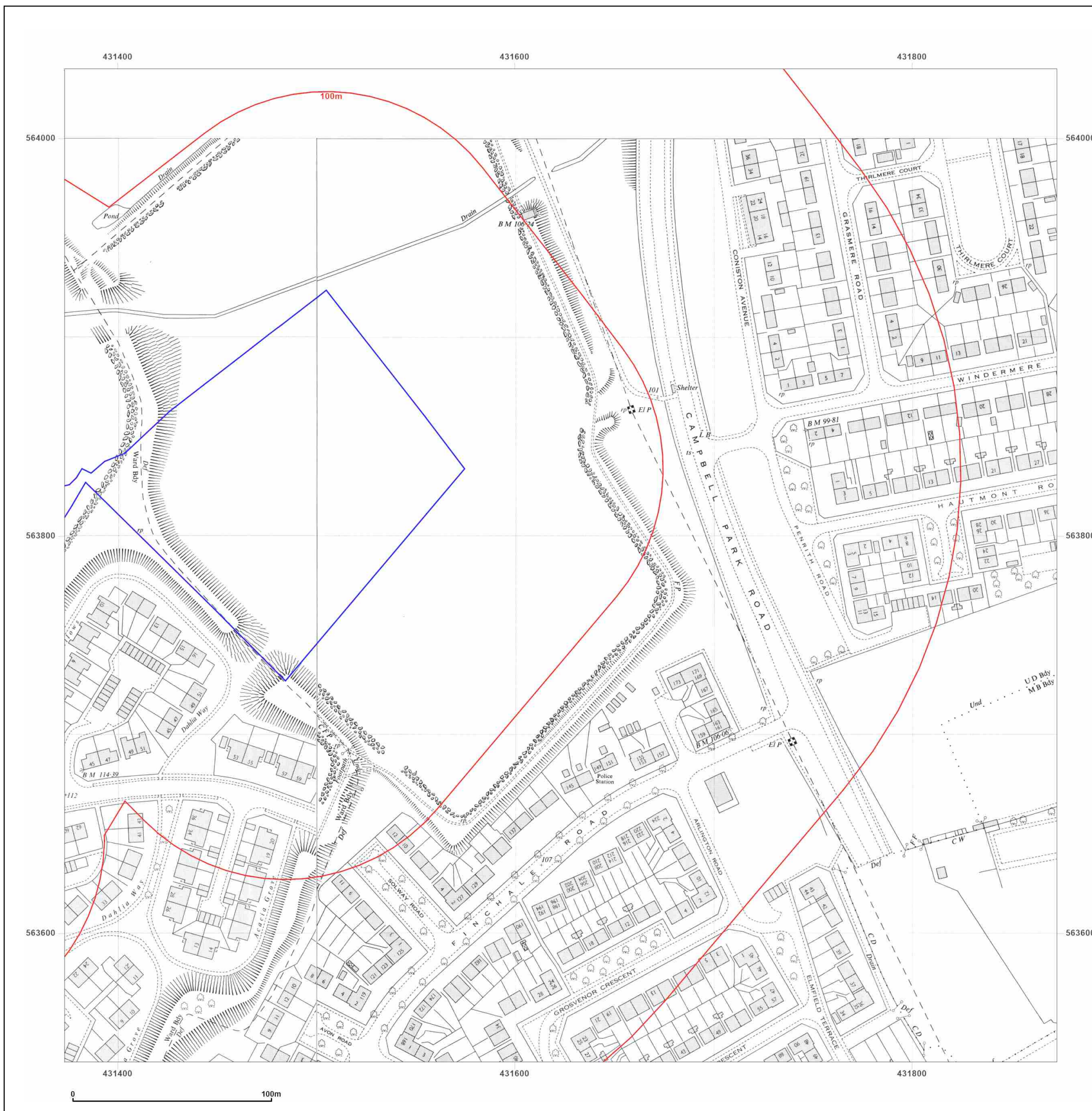


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_2_1
Grid Ref: 431623, 563785

Map Name: National Grid

Map date: 1967-1968

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1968
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Edition N/A
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Levelled 1963

Surveyed 1956
Revised 1966
Edition N/A
Copyright 1967
Levelled 1963

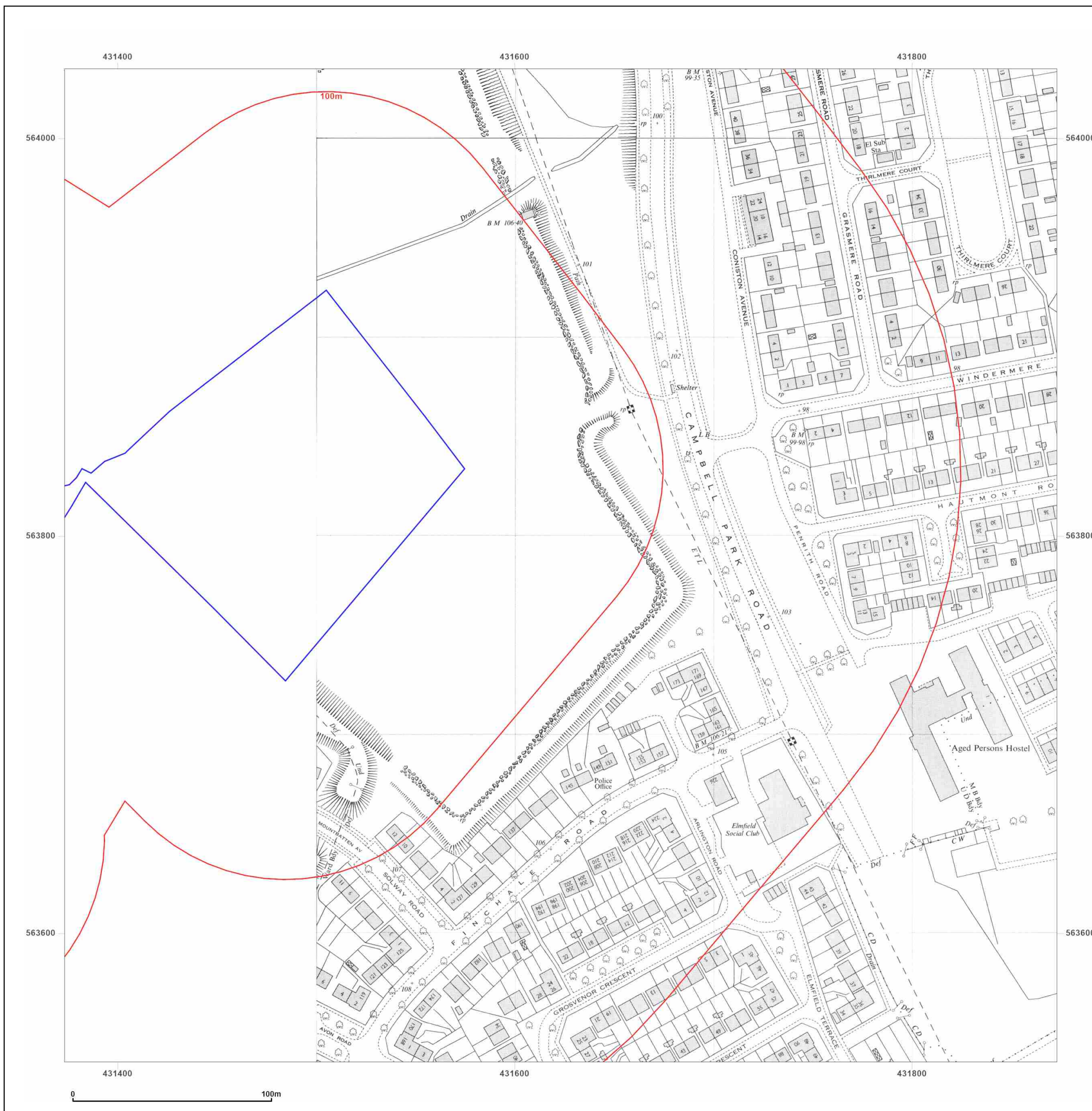


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Site Details:

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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_2_1
Grid Ref: 431623, 563785

Map Name: National Grid

Map date: 1973-1974

Scale: 1:1,250

Printed at: 1:2,000



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

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Revised N/A
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Site Details:

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Avenue, Hebburn, NE31 2QP

Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_2_1
Grid Ref: 431623, 563785

Map Name: National Grid

Map date: 1982

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1963
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Edition N/A
Copyright 1982
Levelled 1963

Surveyed 1963
Revised 1982
Edition N/A
Copyright 1982
Levelled 1963

Surveyed 1963
Revised 1982
Edition N/A
Copyright 1982
Levelled 1963

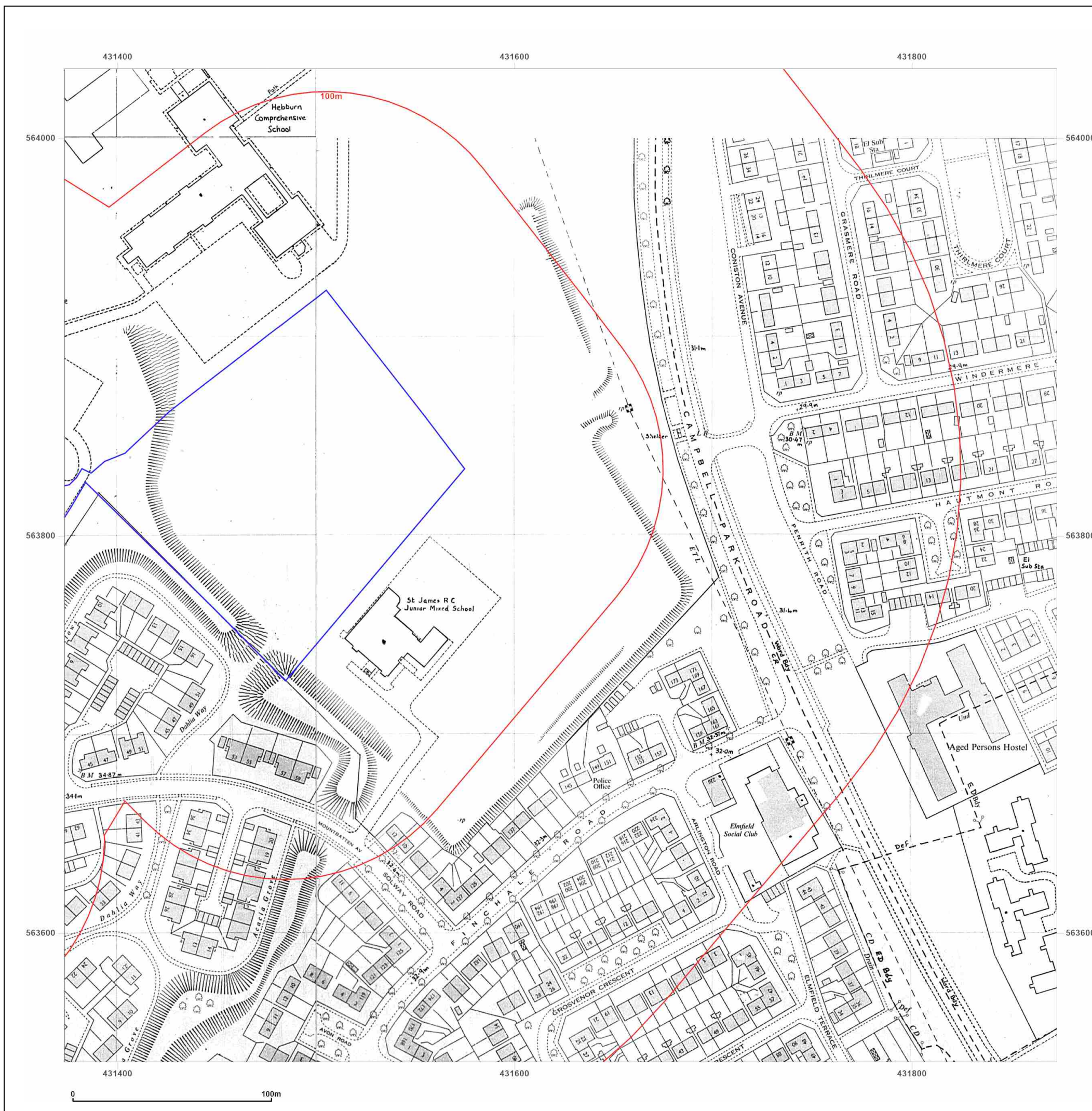


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Site Details:

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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_2_1
Grid Ref: 431623, 563785

Map Name: National Grid

Map date: 1979-1983

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
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Surveyed 1963
Revised 1983
Edition N/A
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Surveyed 1963
Revised 1982
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Surveyed 1963
Revised 1980
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Copyright 1980
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Site Details:

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Community hub, Mount Batten
Avenue, Hebburn, NE31 2QP

Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_1250_2_1
Grid Ref: 431623, 563785

Map Name: National Grid
Map date: 1993
Scale: 1:1,250
Printed at: 1:2,000



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Surveyed 1993 Revised 1993 Edition N/A Copyright N/A Levelled N/A	Surveyed 1993 Revised 1993 Edition N/A Copyright N/A Levelled N/A

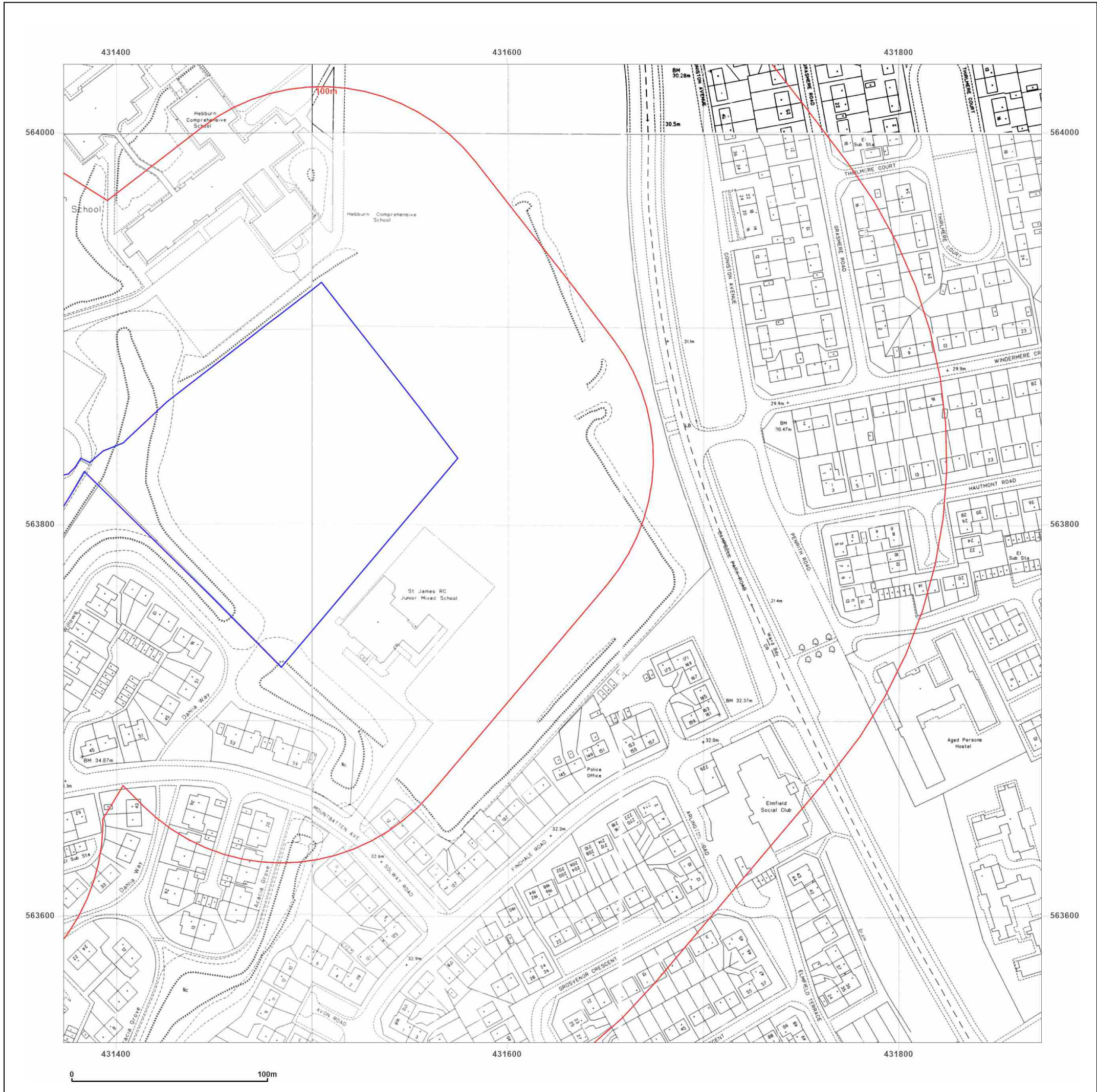


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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_LS_1_1
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1857

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1857
Revised 1857
Edition N/A
Copyright N/A
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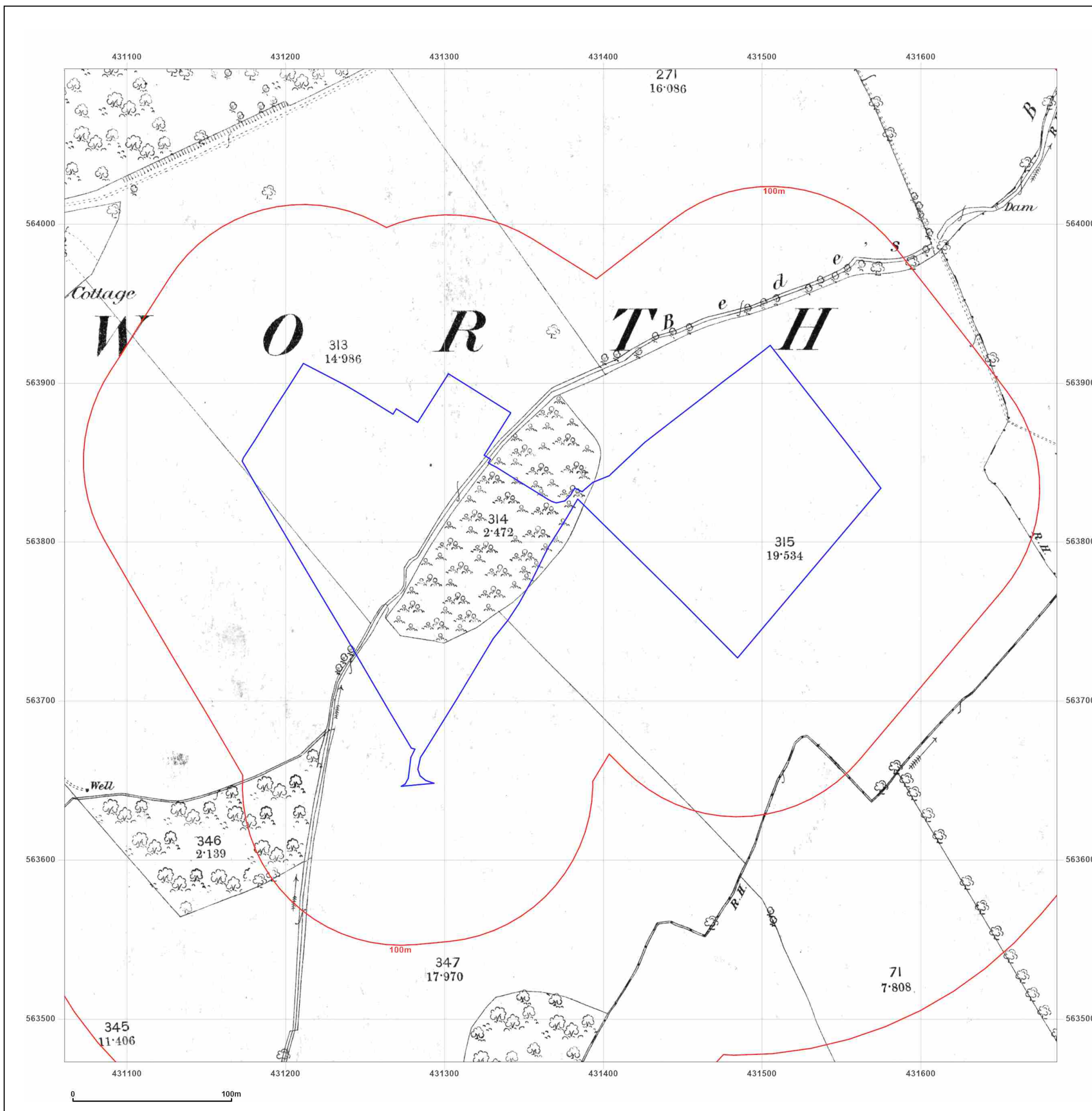


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Site Details:

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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_LS_1_1
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

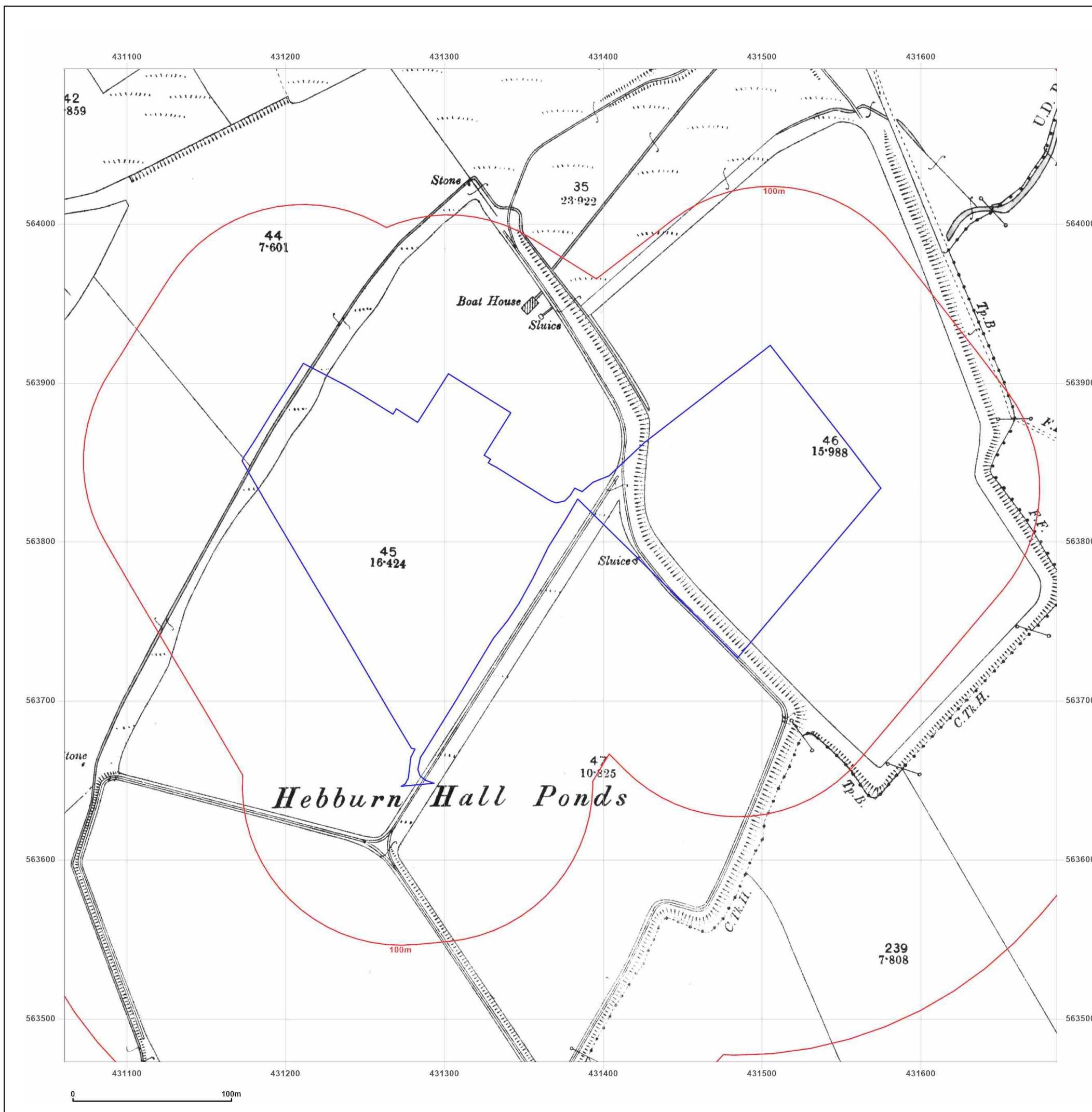


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Site Details:

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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_LS_1_1
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1916

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1916
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A

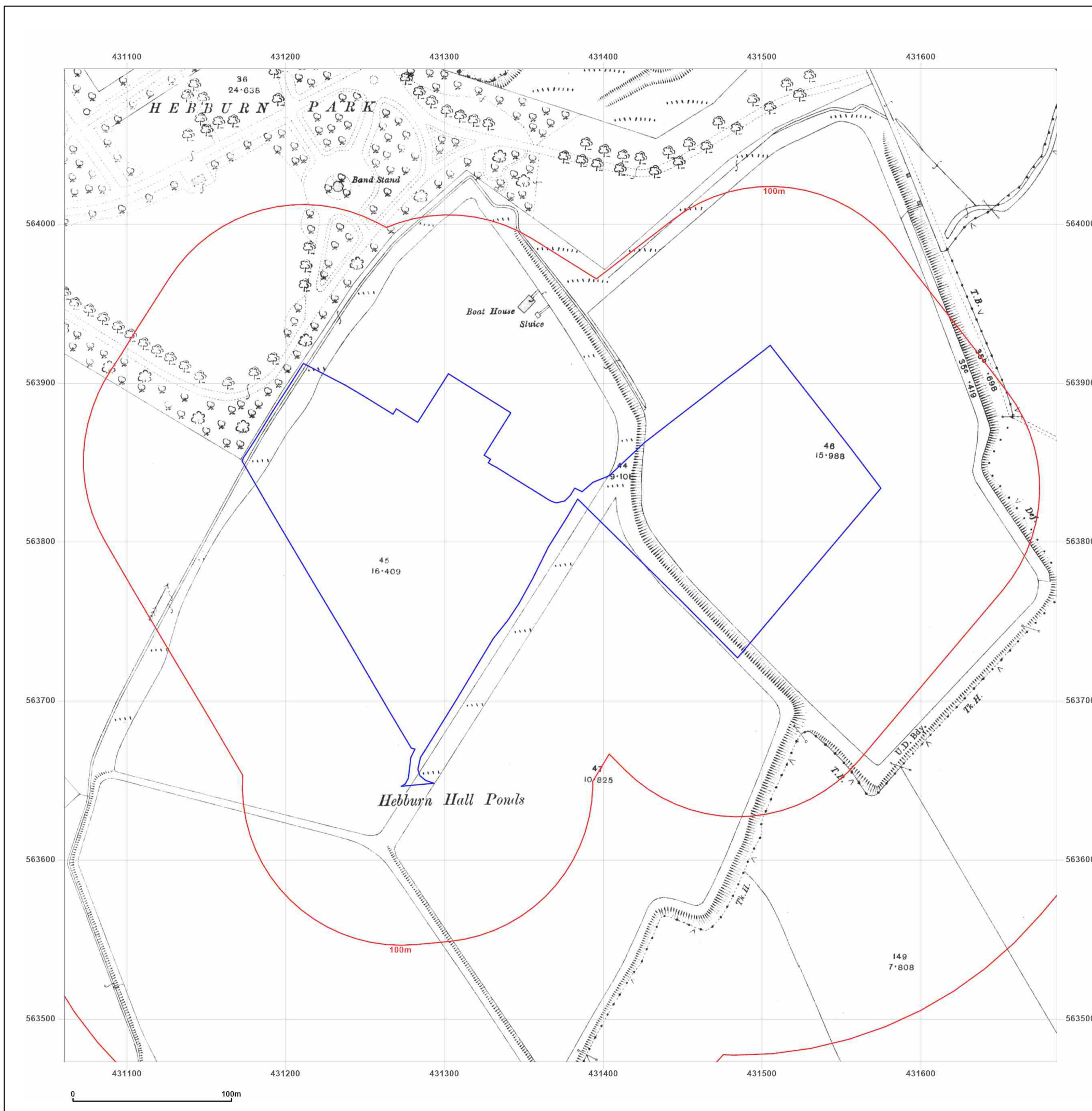


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Site Details:

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Avenue, Hebburn, NE31 2QP

Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_LS_1_1
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1932

Scale: 1:2,500

Printed at: 1:2,500



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

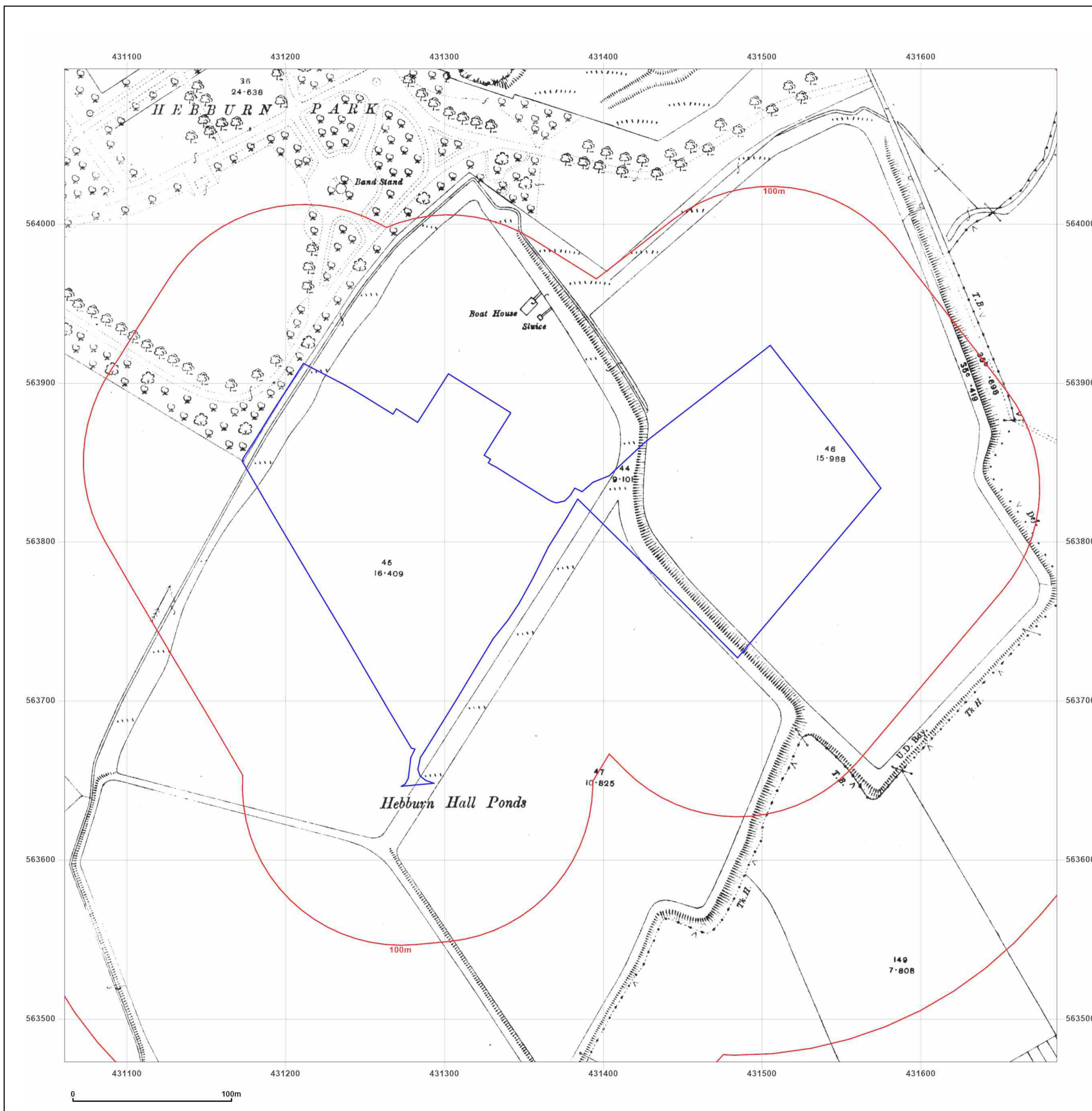


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Site Details:

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Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_LS_1_1
Grid Ref: 431373, 563785

Map Name: County Series

Map date: 1941

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1941
Revised 1941
Edition N/A
Copyright N/A
Levelled N/A

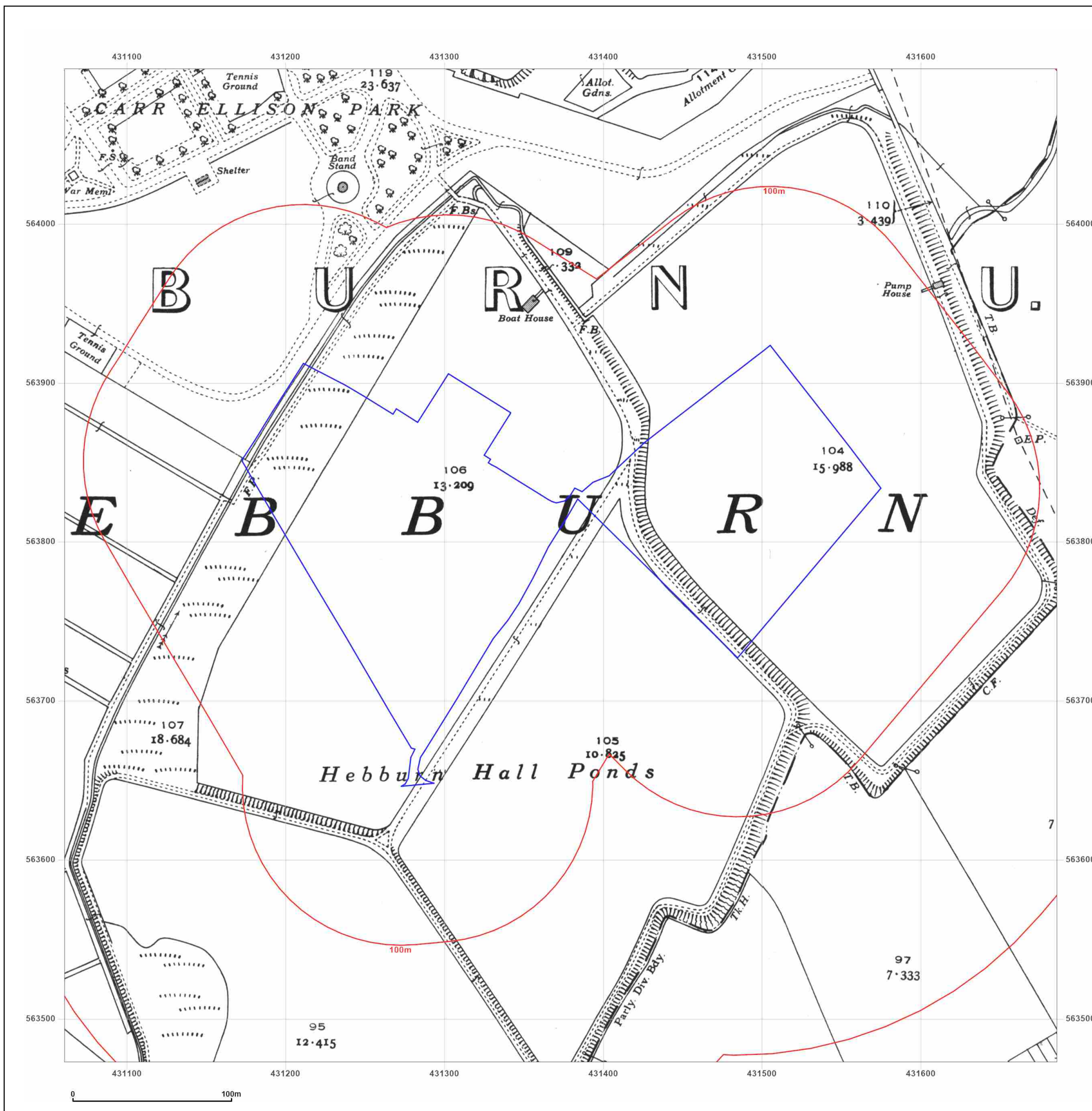


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Avenue, Hebburn, NE31 2QP

Client Ref: G25318
Report Ref: GS-HXD-YKG-824-7PE_LS_1_1
Grid Ref: 431373, 563785

Map Name: National Grid

Map date: 1968

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1956
Revised 1968
Edition N/A
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Surveyed 1966
Revised 1966
Edition N/A
Copyright 1968
Levelled 1963

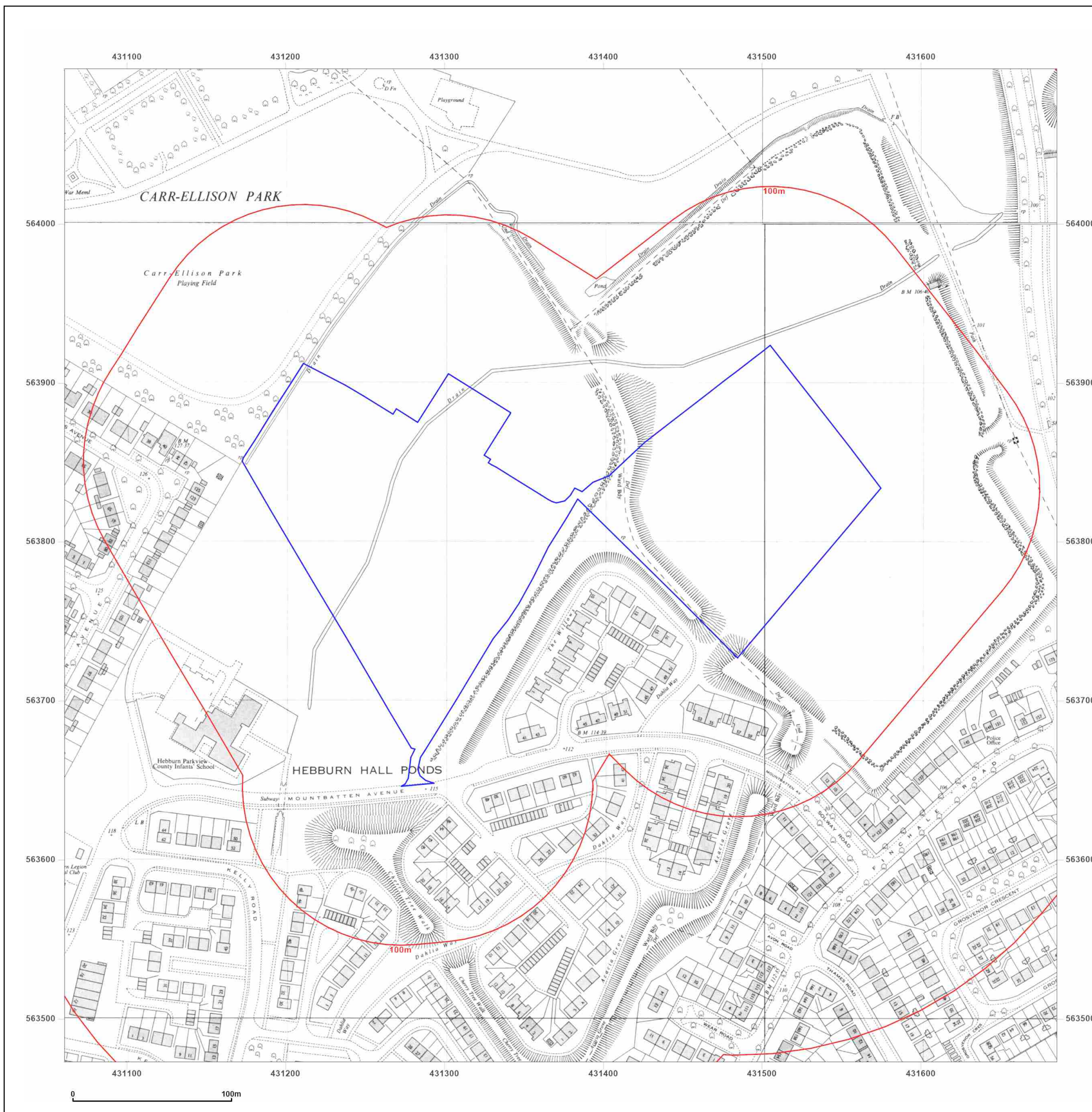


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APPENDIX 2

GroundSure Enviro + GeoInsight Report



Clegwell & Hartleyburn Community hub, Mount Batten Avenue, Hebburn, NE31 2QP

Order Details

Date: 26/09/2025
Your ref: G25318
Our Ref: GS-YOB-GFY-HEY-4ZG

Site Details

Location: 431360 563814
Area: 4.58 ha
Authority: [South Tyneside Council](#) ↗



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[Summary of findings](#)

[p.2 > Aerial image](#)

[p.9 >](#)

[OS MasterMap site plan](#)

[p.14 > Insight User Guide](#) ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

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 >	3	2	25	22	-
18 >	1.2 >	Historical tanks >	0	0	1	3	-
18 >	1.3 >	Historical energy features >	0	1	3	16	-
19	1.4	Historical petrol stations	0	0	0	0	-
19 >	1.5 >	Historical garages >	0	0	0	2	-
20	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
21 >	2.1 >	Historical industrial land uses >	6	3	34	27	-
24 >	2.2 >	Historical tanks >	0	0	2	3	-
25 >	2.3 >	Historical energy features >	0	4	5	25	-
26	2.4	Historical petrol stations	0	0	0	0	-
26 >	2.5 >	Historical garages >	0	0	0	2	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
27	3.1	Active or recent landfill	0	0	0	0	-
27	3.2	Historical landfill (BGS records)	0	0	0	0	-
28 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	1	-
28 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	2	0	-
29	3.5	Historical waste sites	0	0	0	0	-
29	3.6	Licensed waste sites	0	0	0	0	-
29 >	3.7 >	Waste exemptions >	0	1	0	7	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
31 >	4.1 >	Recent industrial land uses >	1	1	5	-	-
32 >	4.2 >	National Geographic Database (NGD) - Current or recent tanks >	0	0	1	-	-
32	4.3	Current or recent petrol stations	0	0	0	0	-
32	4.4	Electricity cables	0	0	0	0	-
33	4.5	Gas pipelines	0	0	0	0	-



33	4.6	Sites determined as Contaminated Land	0	0	0	0	-
33	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
33	4.8	Regulated explosive sites	0	0	0	0	-
33	4.9	Hazardous substance storage/usage	0	0	0	0	-
34	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
34	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
34	4.12	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
34	4.13	Radioactive Substance Authorisations	0	0	0	0	-
34	4.14	Licensed Discharges to controlled waters	0	0	0	0	-
35	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
35	4.16	Pollutant release to public sewer	0	0	0	0	-
35	4.17	List 1 Dangerous Substances	0	0	0	0	-
35	4.18	List 2 Dangerous Substances	0	0	0	0	-
35 >	4.19 >	<u>Pollution Incidents (EA/NRW) ></u>	0	0	0	1	-
36	4.20	Pollution inventory substances	0	0	0	0	-
36	4.21	Pollution inventory waste transfers	0	0	0	0	-
36	4.22	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
37 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
39 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
41 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
43	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
43	5.5	Groundwater vulnerability- local information	None (within 0m)				
44 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	2
45	5.7	Surface water abstractions	0	0	0	0	0
45	5.8	Potable abstractions	0	0	0	0	0
46	5.9	Source Protection Zones	0	0	0	0	-
46	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m

47 >	6.1 >	Water Network (OS MasterMap) >	1	0	0	-	-
48 >	6.2 >	Surface water features >	1	1	0	-	-
48 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
48 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
49 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
50	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
50	7.2	Historical Flood Events	0	0	0	-	-
50	7.3	Flood Defences	0	0	0	-	-
51	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
51	7.5	Flood Storage Areas	0	0	0	-	-
52	7.6	Flood Zone 2	None (within 50m)				
52	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
53 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
55 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
56	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
57	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
57	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
57	10.4	Special Protection Areas (SPA)	0	0	0	0	0
57	10.5	National Nature Reserves (NNR)	0	0	0	0	0
58 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	2
58	10.7	Designated Ancient Woodland	0	0	0	0	0
58	10.8	Biosphere Reserves	0	0	0	0	0
58	10.9	Forest Parks	0	0	0	0	0
59	10.10	Marine Conservation Zones	0	0	0	0	0
59 >	10.11 >	Green Belt >	0	0	0	0	3



59	10.12	Proposed Ramsar sites	0	0	0	0	0
59	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
60	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
60	10.15	Nitrate Sensitive Areas	0	0	0	0	0
60	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
61 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
62	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
63	11.1	World Heritage Sites	0	0	0	-	-
64	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
64	11.3	National Parks	0	0	0	-	-
64	11.4	Listed Buildings	0	0	0	-	-
64 >	11.5 >	Conservation Areas >	1	0	0	-	-
65	11.6	Scheduled Ancient Monuments	0	0	0	-	-
65	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
66 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
67	12.2	Open Access Land	0	0	0	-	-
67	12.3	Tree Felling Licences	0	0	0	-	-
67	12.4	Environmental Stewardship Schemes	0	0	0	-	-
67	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
68 >	13.1 >	Priority Habitat Inventory >	1	1	18	-	-
69	13.2	Habitat Networks	0	0	0	-	-
69	13.3	Open Mosaic Habitat	0	0	0	-	-
70	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
71 >	14.1 >	10k Availability >	Identified (within 500m)				
72 >	14.2 >	Artificial and made ground (10k) >	1	0	2	2	-

74 >	14.3 >	Superficial geology (10k) >	1	0	0	1	-
75	14.4	Landslip (10k)	0	0	0	0	-
76 >	14.5 >	Bedrock geology (10k) >	8	0	6	9	-
78 >	14.6 >	Bedrock faults and other linear features (10k) >	3	2	2	3	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
79 >	15.1 >	50k Availability >	Identified (within 500m)				
80 >	15.2 >	Artificial and made ground (50k) >	1	0	2	2	-
81 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
82 >	15.4 >	Superficial geology (50k) >	2	0	2	4	-
83 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
83	15.6	Landslip (50k)	0	0	0	0	-
83	15.7	Landslip permeability (50k)	None (within 50m)				
84 >	15.8 >	Bedrock geology (50k) >	4	2	5	7	-
86 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
86 >	15.10 >	Bedrock faults and other linear features (50k) >	2	3	3	3	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
88 >	16.1 >	BGS Boreholes >	0	6	23	-	-
Page	Section	Natural ground subsidence >					
90 >	17.1 >	Shrink swell clays >	Low (within 50m)				
92 >	17.2 >	Running sands >	Very low (within 50m)				
94 >	17.3 >	Compressible deposits >	Very low (within 50m)				
96 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
97 >	17.5 >	Landslides >	Very low (within 50m)				
98 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
100 >	18.1 >	BritPits >	0	0	0	1	-
101 >	18.2 >	Surface ground workings >	15	3	27	-	-
103 >	18.3 >	Underground workings >	0	0	0	0	3
103	18.4	Underground mining extents	0	0	0	0	-



103	18.5	Historical Mineral Planning Areas	0	0	0	0	-
104	18.6	Non-coal mining	0	0	0	0	0
104	18.7	JPB mining areas	None (within 0m)				
104	18.8	The Coal Authority non-coal mining	0	0	0	0	-
104 >	18.9 >	Researched mining >	0	0	1	0	-
105	18.10	Mining record office plans	0	0	0	0	-
105	18.11	BGS mine plans	0	0	0	0	-
105 >	18.12 >	Coal mining >	Identified (within 0m)				
105	18.13	Brine areas	None (within 0m)				
106	18.14	Gypsum areas	None (within 0m)				
106	18.15	Tin mining	None (within 0m)				
106	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
107	19.1	Natural cavities	0	0	0	0	-
108 >	19.2 >	Mining cavities >	0	0	0	0	1
108	19.3	Reported recent incidents	0	0	0	0	-
108	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
109 >	20.1 >	Radon >	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
111 >	21.1 >	BGS Estimated Background Soil Chemistry >	8	5	-	-	-
112	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
112	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
113	22.1	Underground railways (London)	0	0	0	-	-
113	22.2	Underground railways (Non-London)	0	0	0	-	-
114	22.3	Railway tunnels	0	0	0	-	-
114 >	22.4 >	Historical railway and tunnel features >	2	0	0	-	-
114	22.5	Royal Mail tunnels	0	0	0	-	-



114	22.6	Historical railways	0	0	0	-	-
115	22.7	Railways	0	0	0	-	-
115	22.8	Crossrail 2	0	0	0	0	-
115	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 19/04/2021

Site Area: 4.58ha



Recent site history - 2019 aerial photograph

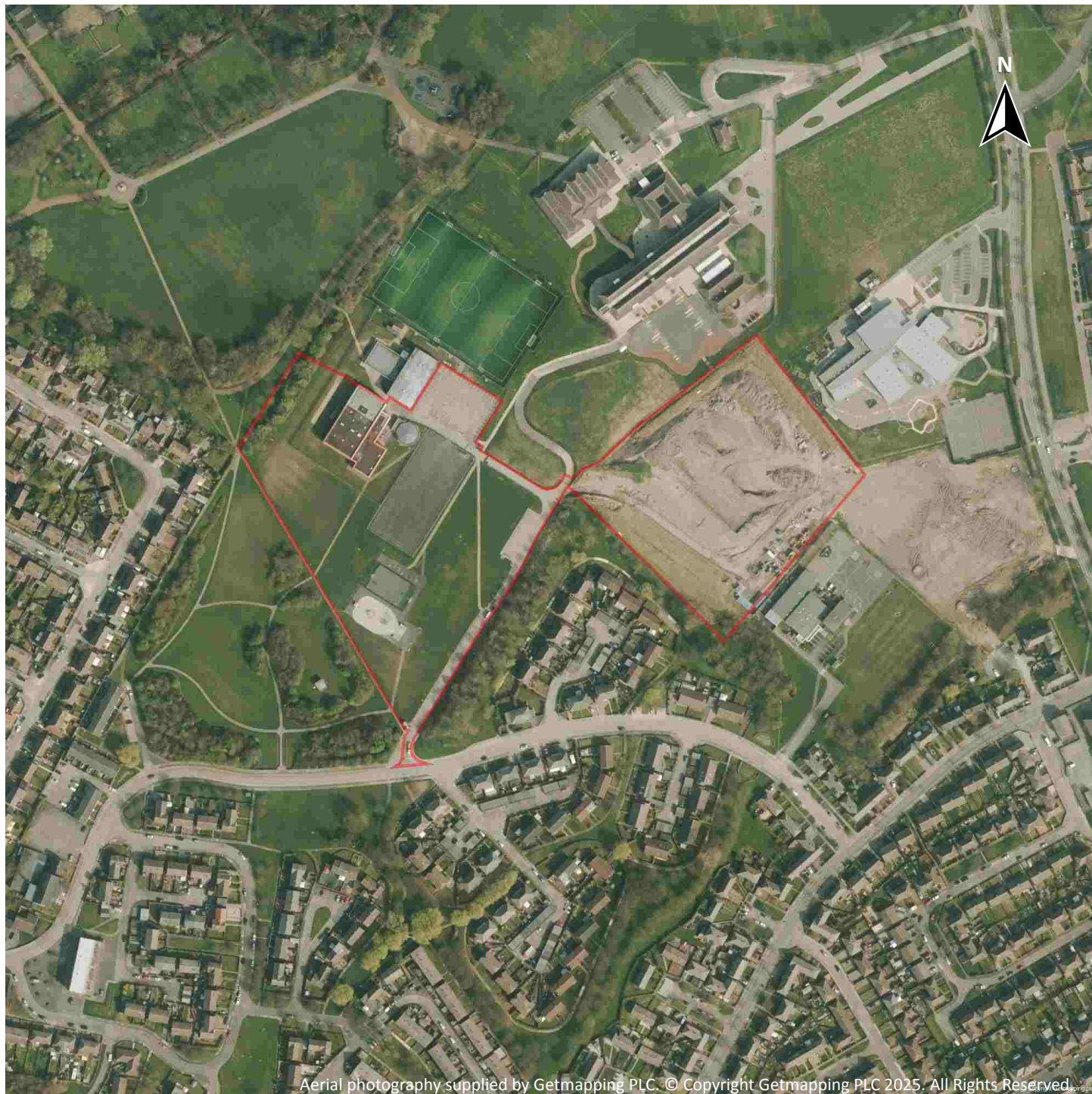


Capture Date: 26/08/2019

Site Area: 4.58ha



Recent site history - 2015 aerial photograph



Capture Date: 10/04/2015

Site Area: 4.58ha



Recent site history - 2009 aerial photograph



Capture Date: 01/06/2009

Site Area: 4.58ha



Recent site history - 1999 aerial photograph

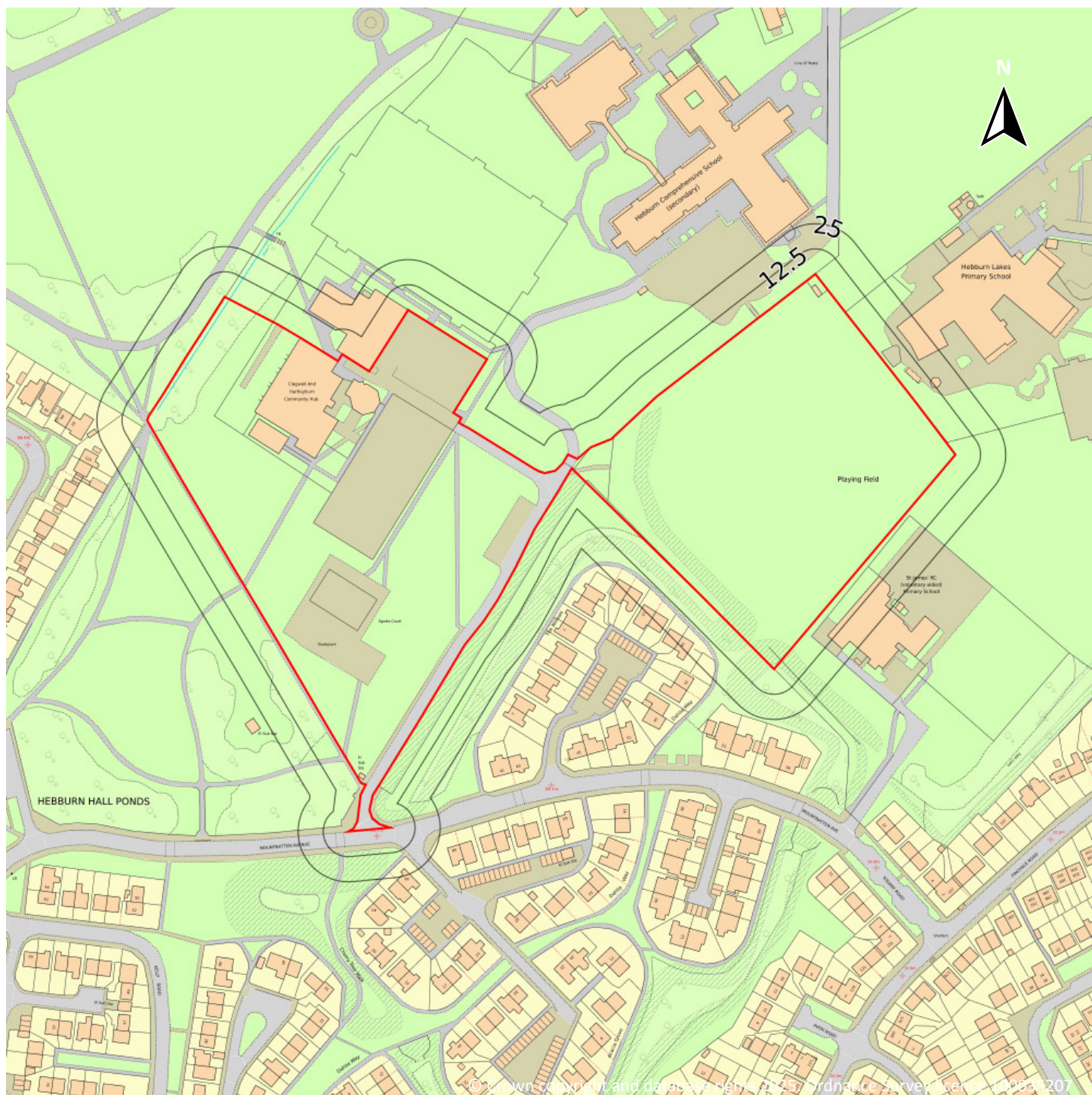


Capture Date: 10/07/1999

Site Area: 4.58ha



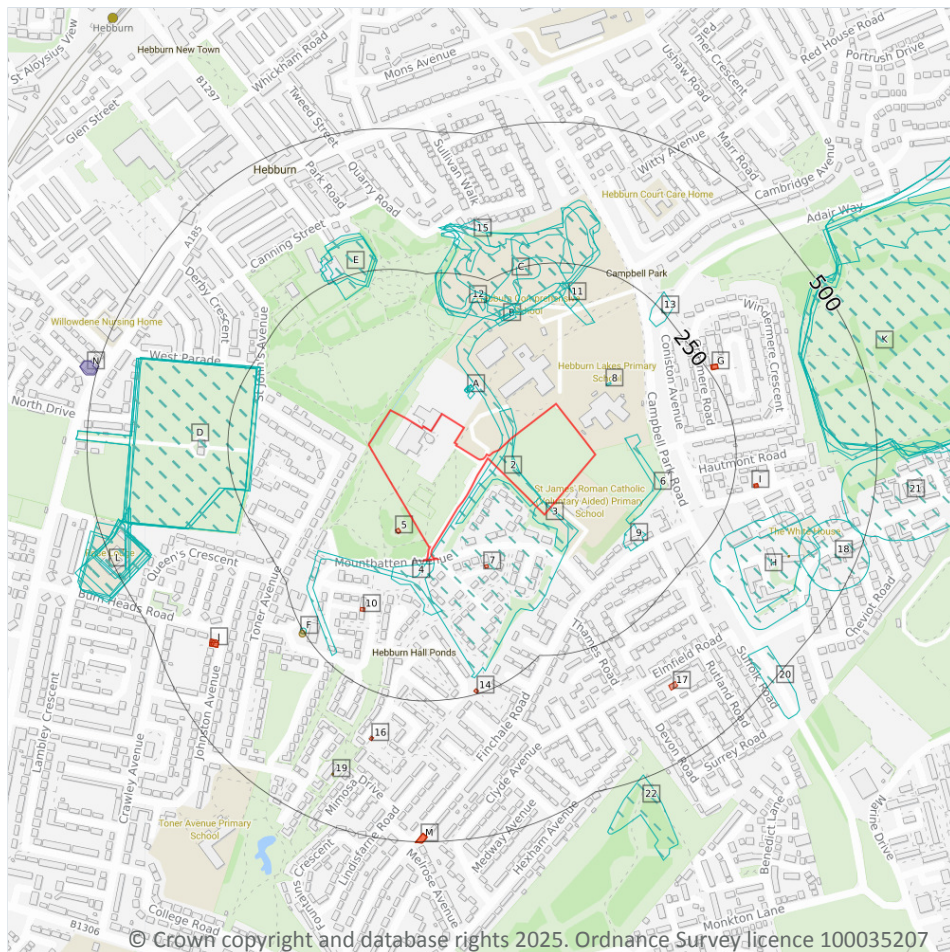
OS MasterMap site plan



Site Area: 4.58ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

52

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
1	On site	Railway Sidings	1895	1366053



ID	Location	Land use	Dates present	Group ID
2	On site	Unspecified Ground Workings	1973 - 1992	1400658
3	On site	Unspecified Heap	1973 - 1992	1404704
4	7m S	Unspecified Heap	1973 - 1992	1413160
A	49m NE	Boat House	1895 - 1921	1361328
A	55m NE	Boat House	1951	1424149
A	56m NE	Boat House	1938	1429083
A	59m NE	Boat House	1895	1408781
6	59m NE	Unspecified Ground Workings	1973 - 1992	1418218
8	91m NE	Pump House	1951	1358925
9	131m SE	Police Station	1965	1360522
B	169m NW	Unspecified Pit	1921	1341662
11	171m N	Cuttings	1895	1389083
C	171m N	Unspecified Quarry	1938	1409513
C	175m N	Unspecified Quarry	1921	1431306
B	175m NW	Cuttings	1895	1420936
C	179m NW	Refuse Heap	1951	1329143
12	181m N	Unspecified Ground Workings	1951	1332959
C	187m N	Unspecified Quarry	1895	1373425
D	203m W	Cemetery	1895	1390557
D	203m W	Cemetery	1895	1365069
D	211m W	Cemetery	1951	1367038
D	211m W	Cemetery	1965 - 1992	1375975
D	211m W	Cemetery	1921	1366790
D	211m W	Cemetery	1938	1373052
E	211m N	Infirmary	1965 - 1973	1378736
E	222m N	Infirmary	1921	1415255
13	223m NE	Unspecified Pit	1973	1341661
E	231m N	Infirmary	1938 - 1951	1378329



ID	Location	Land use	Dates present	Group ID
F	245m SW	Unspecified Tank	1992	1354011
15	257m N	Unspecified Old Quarry	1856	1331618
H	272m SE	Hospital	1965 - 1973	1394607
H	298m SE	Hospital	1992	1414114
18	396m SE	Smithy	1895	1375160
K	399m E	Refuse Heap	1965	1402373
K	399m E	Slag Works	1951	1326926
K	399m E	Gravel Pit	1951	1355013
K	400m E	Refuse Heaps	1973	1326871
K	403m NE	Refuse Heap	1938	1374055
K	404m E	Refuse Heap	1921	1390645
L	432m SW	Hospital	1965 - 1973	1373659
L	432m SW	Hospital	1992	1422333
L	433m SW	Fever Hospital	1951	1385703
L	435m SW	Fever Hospital	1921 - 1938	1374573
L	437m W	Fever Hospital	1913	1362935
20	437m SE	Unspecified Heap	1965	1350386
L	440m SW	Infectious Diseases Hospital	1895	1407430
L	441m W	Hospital	1938	1386009
21	442m E	Coal Depot	1856	1357864
L	443m SW	Fever Hospital	1895	1419730
L	456m W	Infectious Diseases Hospital	1895	1428152
22	494m S	Refuse Heap	1965	1329140

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

4

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
F	248m SW	Unspecified Tank	1988 - 1993	232427
H	387m SE	Unspecified Tank	1956	228611
H	387m SE	Unspecified Tank	1957	224175
19	412m SW	Unspecified Tank	1967	212075

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
5	29m SW	Electricity Substation	1982 - 1993	130489
7	85m E	Electricity Substation	1988 - 1993	135118
10	137m SW	Electricity Substation	1988 - 1993	132507
14	240m S	Electricity Substation	1993	127729
G	255m NE	Electricity Substation	1967 - 1993	131873
G	256m NE	Electricity Substation	1956	138877
G	256m NE	Electricity Substation	1957	130247



ID	Location	Land use	Dates present	Group ID
I	286m E	Electricity Substation	1980 - 1982	137088
I	287m E	Electricity Substation	1993	135149
16	327m S	Electricity Substation	1993	127730
17	375m SE	Electricity Substation	1979 - 1994	131665
J	392m W	Electricity Substation	1957	137282
J	395m W	Electricity Substation	1991	132774
J	395m W	Electricity Substation	1956	129878
J	395m W	Electricity Substation	1976	138783
J	403m W	Electricity Substation	1986 - 1987	131968
M	485m S	Electricity Substation	1957	138233
M	485m S	Electricity Substation	1968 - 1993	141314
M	485m S	Electricity Substation	1956	136811
M	485m S	Electricity Substation	1967	141238

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

2

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
N	498m W	Garage	1976	43802
N	499m W	Garage	1991	43218

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

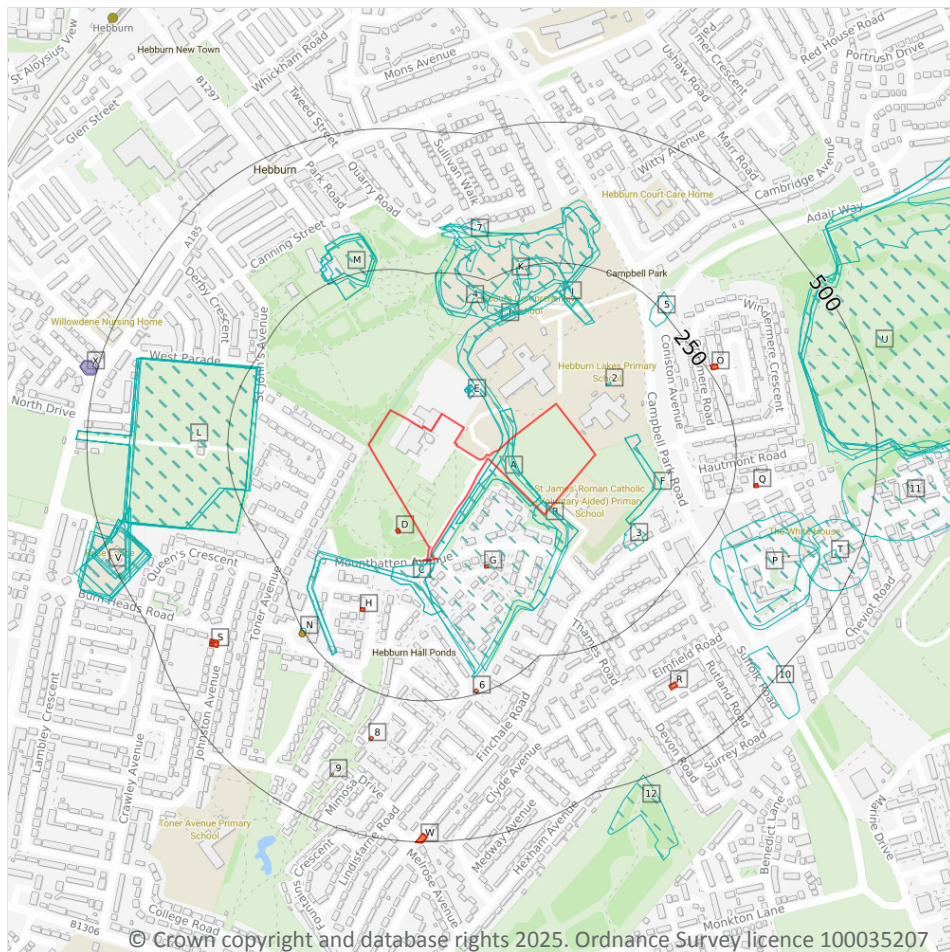
0

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

70

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 21](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Railway Sidings	1895	1366053
A	On site	Unspecified Ground Workings	1992	1400658
A	On site	Unspecified Ground Workings	1973	1400658



ID	Location	Land Use	Date	Group ID
A	On site	Railway Sidings	1895	1366053
B	On site	Unspecified Heap	1992	1404704
B	On site	Unspecified Heap	1973	1404704
C	7m S	Unspecified Heap	1992	1413160
C	7m S	Unspecified Heap	1973	1413160
E	49m NE	Boat House	1921	1361328
E	55m NE	Boat House	1951	1424149
E	56m NE	Boat House	1938	1429083
E	58m NE	Boat House	1895	1361328
E	59m NE	Boat House	1895	1408781
F	59m NE	Unspecified Ground Workings	1992	1418218
F	59m NE	Unspecified Ground Workings	1973	1418218
2	91m NE	Pump House	1951	1358925
3	131m SE	Police Station	1965	1360522
I	169m NW	Unspecified Pit	1921	1341662
J	171m N	Cuttings	1895	1389083
K	171m N	Unspecified Quarry	1938	1409513
K	175m N	Unspecified Quarry	1921	1431306
I	175m NW	Cuttings	1895	1420936
J	177m N	Cuttings	1895	1389083
I	179m NW	Cuttings	1895	1420936
K	179m NW	Refuse Heap	1951	1329143
4	181m N	Unspecified Ground Workings	1951	1332959
K	187m N	Unspecified Quarry	1895	1373425
K	192m N	Unspecified Quarry	1895	1373425
L	203m W	Cemetery	1895	1390557
L	203m W	Cemetery	1895	1365069
L	211m W	Cemetery	1965	1375975



ID	Location	Land Use	Date	Group ID
L	211m W	Cemetery	1992	1375975
L	211m W	Cemetery	1951	1367038
L	211m W	Cemetery	1973	1375975
L	211m W	Cemetery	1938	1373052
L	211m W	Cemetery	1921	1366790
M	211m N	Infirmary	1965	1378736
M	211m N	Infirmary	1973	1378736
M	222m N	Infirmary	1921	1415255
5	223m NE	Unspecified Pit	1973	1341661
M	231m N	Infirmary	1951	1378329
M	233m N	Infirmary	1938	1378329
N	245m SW	Unspecified Tank	1992	1354011
7	257m N	Unspecified Old Quarry	1856	1331618
P	272m SE	Hospital	1973	1394607
P	275m SE	Hospital	1965	1394607
P	298m SE	Hospital	1992	1414114
T	396m SE	Smithy	1895	1375160
U	399m E	Refuse Heap	1965	1402373
U	399m E	Gravel Pit	1951	1355013
U	399m E	Slag Works	1951	1326926
U	400m E	Refuse Heaps	1973	1326871
U	403m NE	Refuse Heap	1938	1374055
U	404m E	Refuse Heap	1921	1390645
V	432m SW	Hospital	1965	1373659
V	432m SW	Hospital	1973	1373659
V	432m SW	Hospital	1992	1422333
V	433m SW	Fever Hospital	1951	1385703
V	435m SW	Fever Hospital	1921	1374573



ID	Location	Land Use	Date	Group ID
V	437m W	Fever Hospital	1913	1362935
V	437m W	Fever Hospital	1913	1362935
10	437m SE	Unspecified Heap	1965	1350386
V	440m SW	Infectious Diseases Hospital	1895	1407430
V	441m W	Hospital	1938	1386009
11	442m E	Coal Depot	1856	1357864
V	443m SW	Fever Hospital	1895	1419730
T	443m SE	Smithy	1895	1375160
V	456m W	Infectious Diseases Hospital	1895	1428152
V	456m W	Fever Hospital	1938	1374573
12	494m S	Refuse Heap	1965	1329140

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	5
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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 21](#) >

ID	Location	Land Use	Date	Group ID
N	248m SW	Unspecified Tank	1993	232427
N	248m SW	Unspecified Tank	1988	232427
P	387m SE	Unspecified Tank	1956	228611
P	387m SE	Unspecified Tank	1957	224175
9	412m SW	Unspecified Tank	1967	212075

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

34

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 21](#) >

ID	Location	Land Use	Date	Group ID
D	29m SW	Electricity Substation	1988	130489
D	30m SW	Electricity Substation	1993	130489
D	31m SW	Electricity Substation	1982	130489
D	31m SW	Electricity Substation	1982	130489
G	85m E	Electricity Substation	1988	135118
G	86m E	Electricity Substation	1993	135118
H	137m SW	Electricity Substation	1988	132507
H	137m SW	Electricity Substation	1993	132507
6	240m S	Electricity Substation	1993	127729
O	255m NE	Electricity Substation	1982	131873
O	255m NE	Electricity Substation	1980	131873
O	256m NE	Electricity Substation	1967	131873
O	256m NE	Electricity Substation	1993	131873
O	256m NE	Electricity Substation	1956	138877
O	256m NE	Electricity Substation	1968	131873
O	256m NE	Electricity Substation	1957	130247
Q	286m E	Electricity Substation	1982	137088
Q	286m E	Electricity Substation	1980	137088
Q	287m E	Electricity Substation	1993	135149
8	327m S	Electricity Substation	1993	127730
R	375m SE	Electricity Substation	1979	131665
R	377m SE	Electricity Substation	1994	131665
S	392m W	Electricity Substation	1957	137282



ID	Location	Land Use	Date	Group ID
S	395m W	Electricity Substation	1991	132774
S	395m W	Electricity Substation	1956	129878
S	395m W	Electricity Substation	1976	138783
S	400m W	Electricity Substation	1976	138783
S	403m W	Electricity Substation	1987	131968
S	403m W	Electricity Substation	1986	131968
W	485m S	Electricity Substation	1968	141314
W	485m S	Electricity Substation	1957	138233
W	485m S	Electricity Substation	1956	136811
W	485m S	Electricity Substation	1967	141238
W	485m S	Electricity Substation	1993	141314

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	2
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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'.

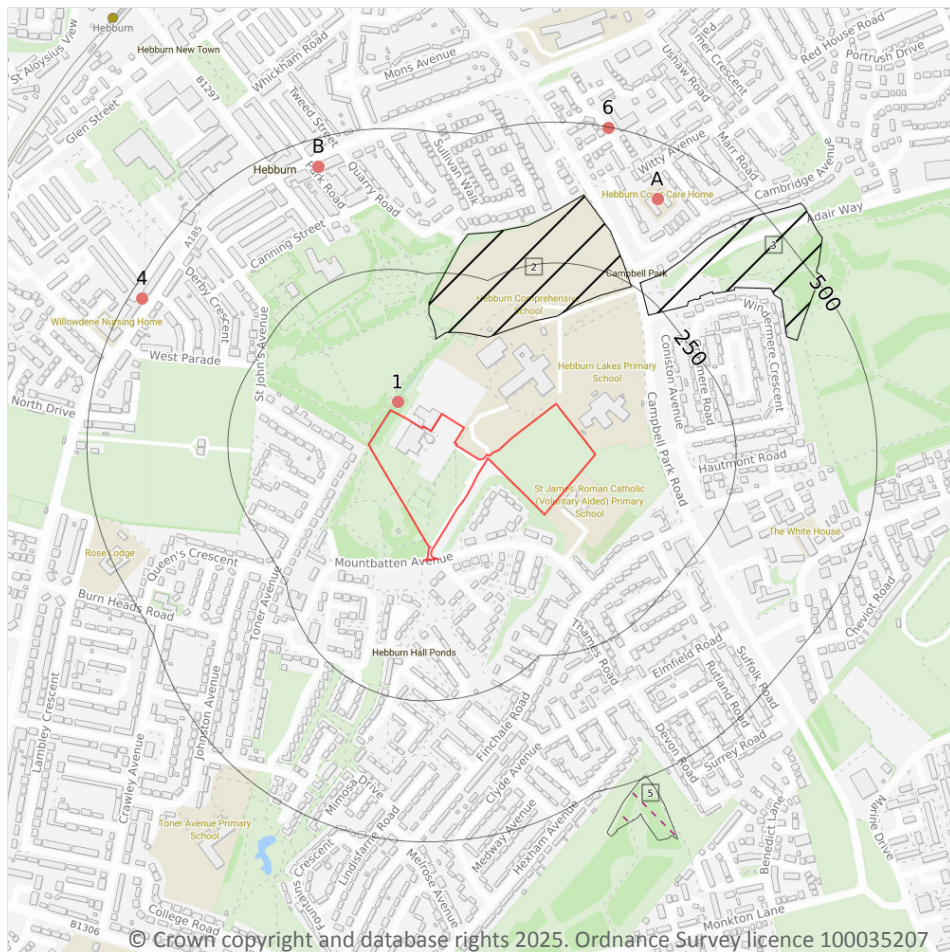
Features are displayed on the Past land use - un-grouped map on [page 21](#) >

ID	Location	Land Use	Date	Group ID
X	498m W	Garage	1976	43802
X	499m W	Garage	1991	43218

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

1

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

Features are displayed on the Waste and landfill map on [page 27 >](#)

ID	Location	Site address	Source	Data type
5	496m S	Refuse Tip	1962 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

2

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

Features are displayed on the Waste and landfill map on [page 27 >](#)

ID	Location	Details		
2	133m N	Site Address: Campbell Park Road School, Campbell Park Road, Hebburn Licence Holder Address: -	Waste Licence: - Site Reference: ST 008, ST 3 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: 31/12/1942
3	227m NE	Site Address: Campbell Park, Hebburn Licence Holder Address: -	Waste Licence: - Site Reference: ST 029, ST 4 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m

0

Waste site records derived from Local Authority planning records and high detail historical mapping.

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

3.6 Licensed waste sites

Records within 500m

0

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

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

3.7 Waste exemptions

Records within 500m

8

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 27 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
1	18m NE	Hebburn Hub Adjacent To Rose Street Hebburn Ne31 1nh	EPR/AF0530W W/A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction
A	404m NE	Witty Avenue, Hebburn, Ne31 2se	WEX164935	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	404m NE	Witty Avenue, Hebburn, Ne31 2se	WEX301838	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	404m NE	Witty Avenue, Hebburn, Ne31 2se	WEX299317	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	450m N	2, Park Road, Hebburn, Ne31 2ul	WEX237415	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	450m N	2, Park Road, Hebburn, Ne31 2ul	WEX363599	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
4	478m NW	Willowdene Care Home, Victoria Road West, Hebburn, Tyne & Wear, Ne31 1lr	WEX226852	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal

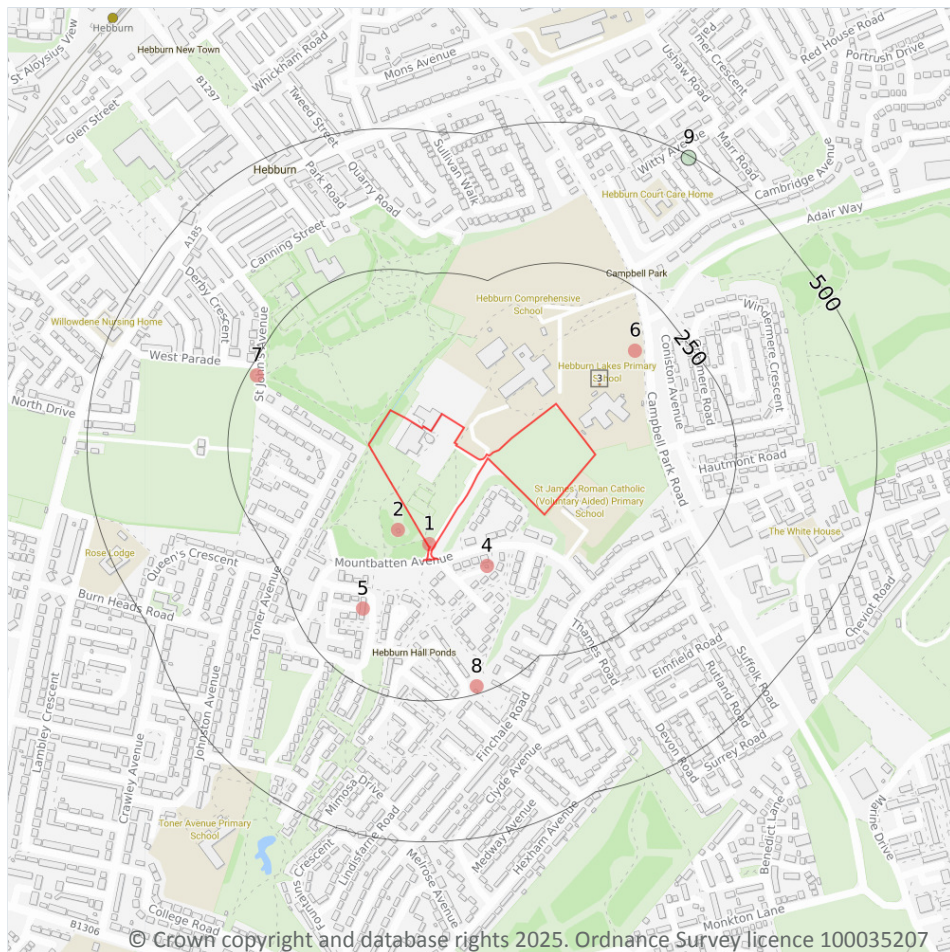


ID	Location	Site	Reference	Category	Sub-Category	Description
6	498m N	Hebburn Health Centre Campbell Park Road Hebburn Tyne And Wear Ne31 2sp	EPR/QE5649EE /A001	Treating waste exemption	Non- agricultural waste only	Sorting and de-naturing of controlled drugs for disposal

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
- NGD current or recent tanks
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

7

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 31](#) >

ID	Location	Company	Address	Activity	Category
1	On site	Electricity Sub Station	Tyne & Wear, NE31	Electrical Features	Infrastructure and Facilities
2	31m SW	Electricity Sub Station	Tyne & Wear, NE31	Electrical Features	Infrastructure and Facilities
4	90m E	Electricity Sub Station	Tyne & Wear, NE31	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
5	140m SW	Electricity Sub Station	Tyne & Wear, NE31	Electrical Features	Infrastructure and Facilities
6	169m NE	Gas Governor	Tyne & Wear, NE31	Gas Features	Infrastructure and Facilities
7	233m NW	Electricity Sub Station	Tyne & Wear, NE31	Electrical Features	Infrastructure and Facilities
8	237m S	Electricity Sub Station	Tyne & Wear, NE31	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	1
----------------------------	----------

Current or recent tanks identified from the Ordnance Survey NGD.

Features are displayed on the Current industrial land use map on [page 31 >](#)

ID	Location	Tank description	Activity	Date first identified
3	80m NE	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	09/08/2012

This data is sourced from Ordnance Survey.

4.3 Current or recent petrol stations

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

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

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

High voltage underground electricity transmission cables.

This data is sourced from National Grid.



4.5 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 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.

4.7 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.

4.8 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.

4.9 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.



4.10 Historical licensed industrial activities (IPC)

Records within 500m**0**

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.

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

4.11 Licensed industrial activities (Part A(1))

Records within 500m**0**

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

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

4.12 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.

4.13 Radioactive Substance Authorisations

Records within 500m**0**

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.

4.14 Licensed Discharges to controlled waters

Records within 500m**0**

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

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

4.15 Pollutant release to surface waters (Red List)

Records within 500m**0**

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

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

4.16 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.

4.17 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.

4.18 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.

4.19 Pollution Incidents (EA/NRW)

Records within 500m**1**

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 31 >](#)

ID	Location	Details	
9	497m NE	Incident Date: 04/08/2004 Incident Identification: 256229 Pollutant: Specific Waste Materials Pollutant Description: Metal Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)

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

4.20 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.

4.21 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.

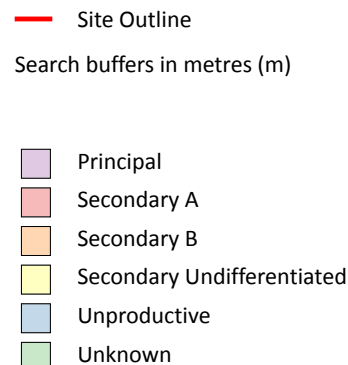
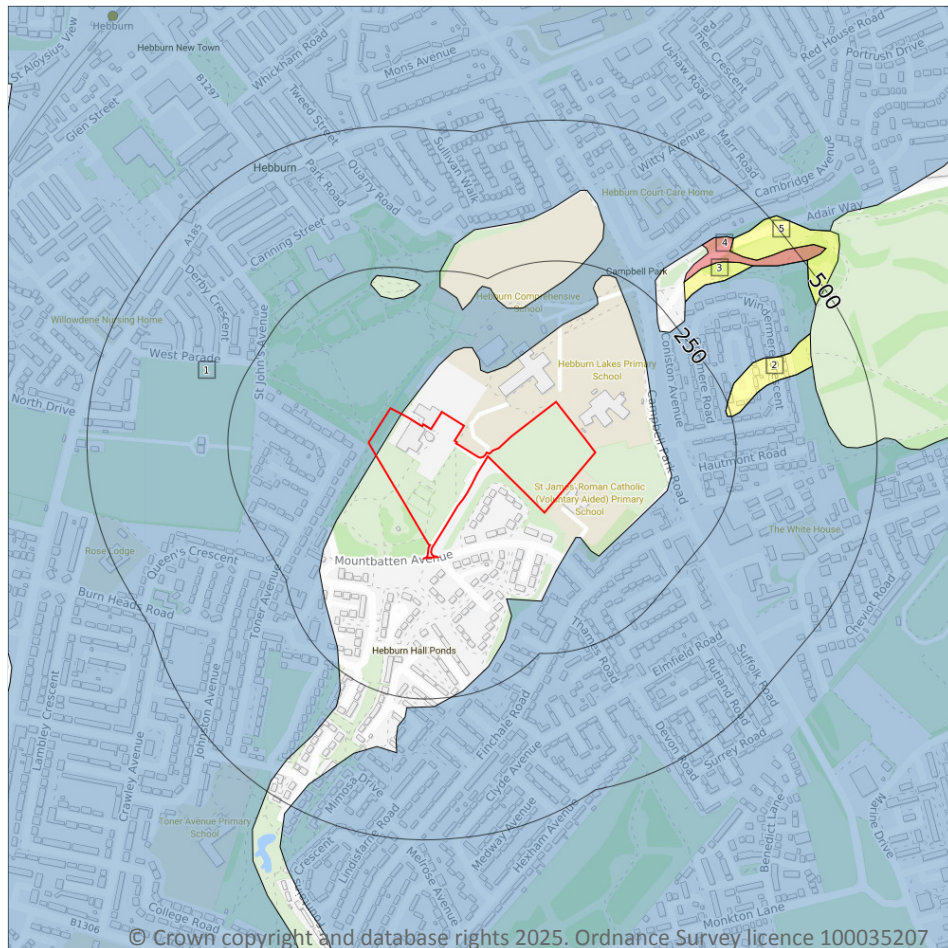
4.22 Pollution inventory radioactive waste

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

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

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

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

5

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 37](#) >

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	243m E	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

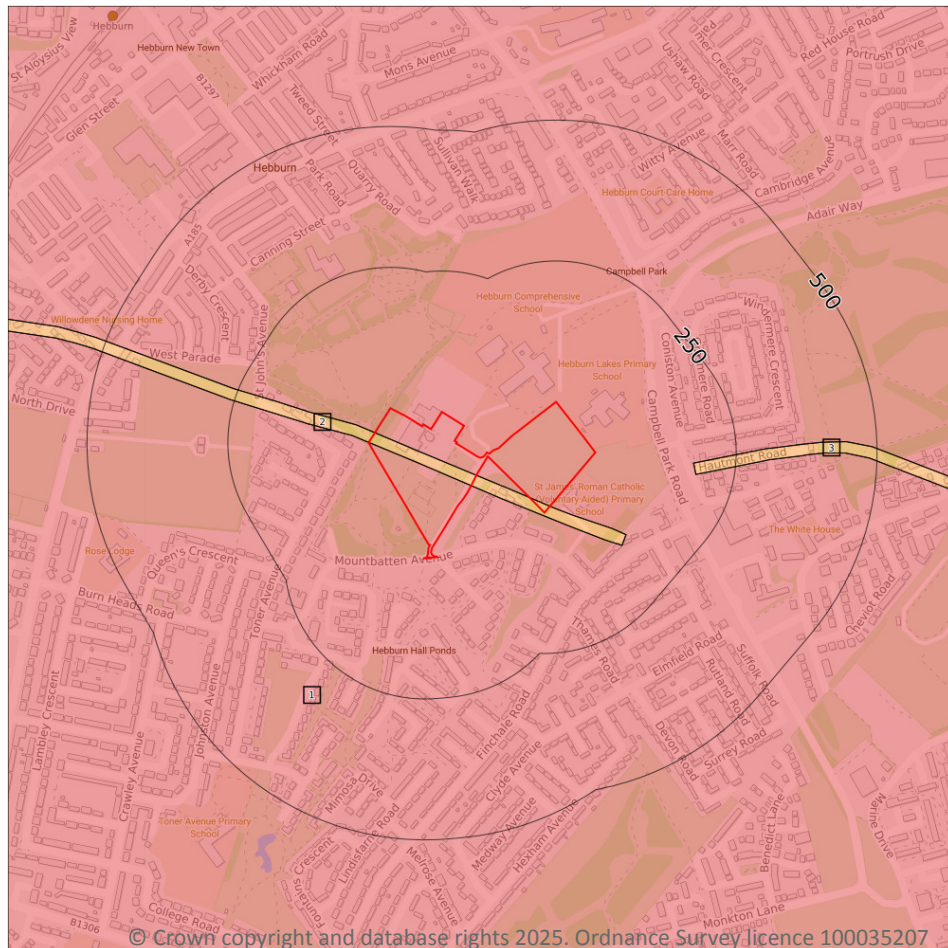


ID	Location	Designation	Description
3	290m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	311m NE	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	409m NE	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

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

5.2 Bedrock aquifer

Records within 500m

3

Aquifer status of groundwater held within bedrock geology.

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

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	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

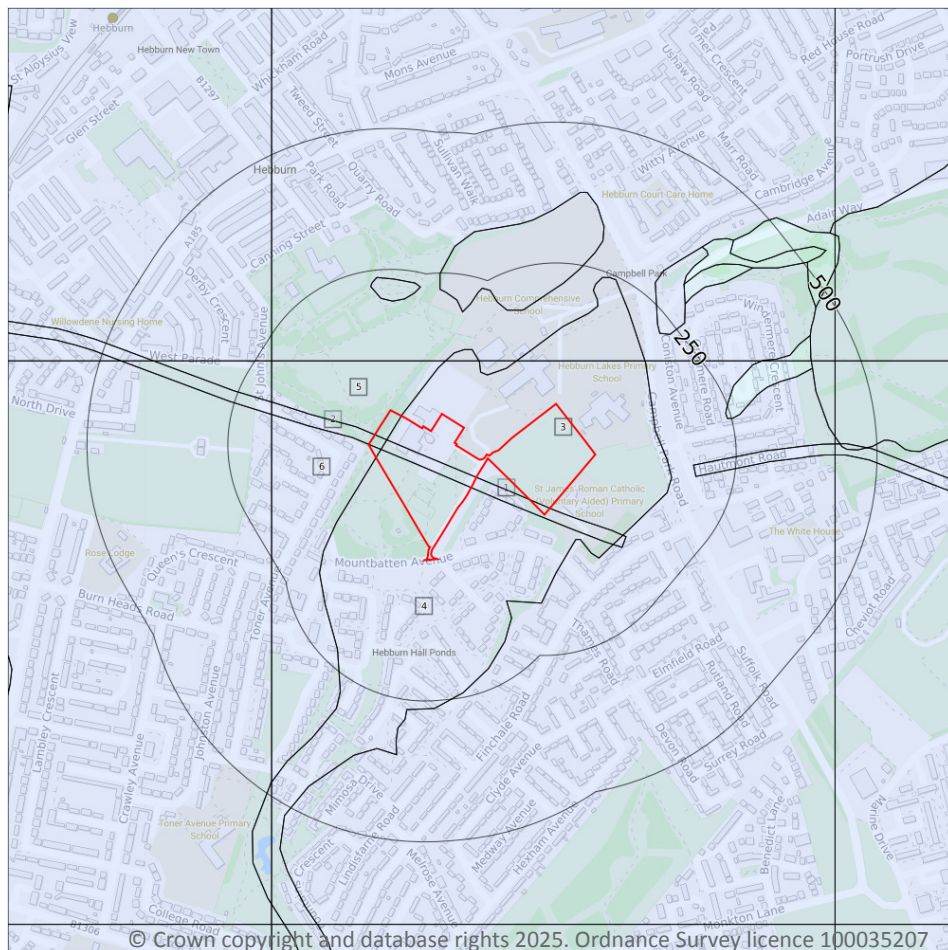


ID	Location	Designation	Description
3	176m E	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

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



Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m

6

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

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

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



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: Unknown (lakes+landslip) Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: Unknown (lakes+landslip) Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: Unknown (lakes+landslip) Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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



5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

5.5 Groundwater vulnerability- local information

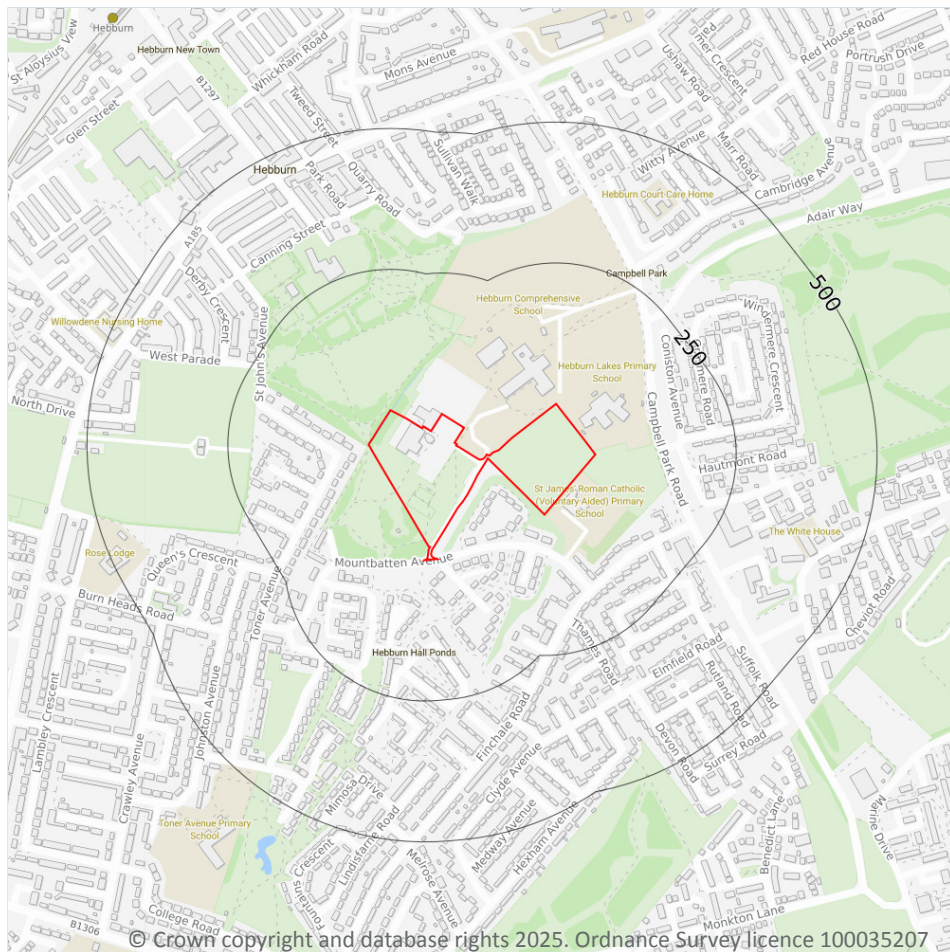
Records on site

0

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

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

Abstractions and Source Protection Zones



- 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

2

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 44](#) >

ID	Location	Details	
-	1322m S	Status: Active Licence No: NE/023/0003/030 Details: Dust Suppression Direct Source: GROUNDWATERS Point: SUMP AT RED BARN QUARRY, HEBBURN Data Type: Poly4 Name: Ibstock Brick Limited Easting: 431107 Northing: 562260	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 50 Original Application No: NPS/NA/001162 Original Start Date: 22/07/2022 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 22/07/2022 Version End Date: -
-	1322m S	Status: Active Licence No: NE/023/0003/031 Details: Dewatering Direct Source: GROUNDWATERS Point: RED BARNS QUARRY, MILL LANE, HEBBURN, TYNE AND WEAR. Data Type: Poly4 Name: Ibstock Brick Limited Easting: 431107 Northing: 562260	Annual Volume (m ³): 175680 Max Daily Volume (m ³): 480 Original Application No: NPS/NA/001163 Original Start Date: 22/07/2022 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 22/07/2022 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	0
-----------------------------	----------

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

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



5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

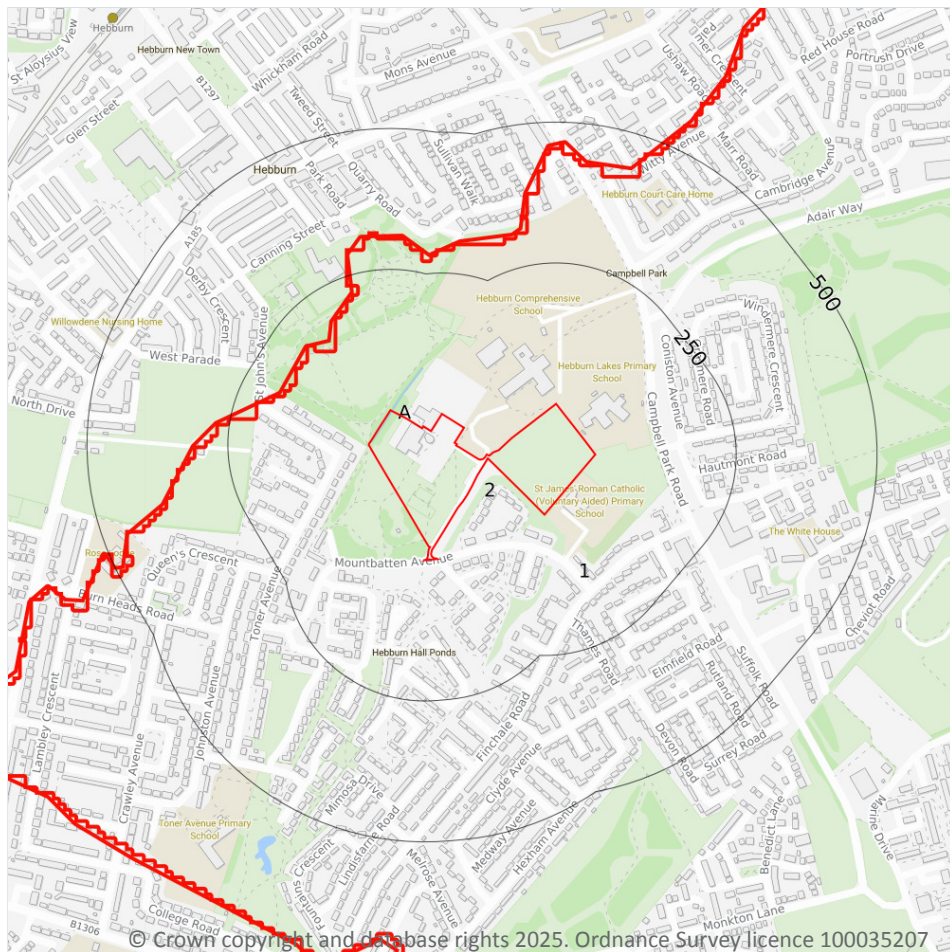
0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

1

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 47 >](#)

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

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

2

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 47 >](#)

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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

Features are displayed on the Hydrology map on [page 47 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Don from Source to Tidal Limit	GB103023075690	Tyne Lower and Estuary	Tyne

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

6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on [page 47 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1518m E	River	Don from Source to Tidal Limit	GB103023075690 ↗	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 47 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Tyne Carboniferous Limestone and Coal Measures	GB40302G701500 ↗	Poor	Poor	Good	2019

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



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m**0**

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

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

7.2 Historical Flood Events

Records within 250m**0**

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

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

7.3 Flood Defences

Records within 250m**0**

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

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



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

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

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

7.7 Flood Zone 3

Records within 50m

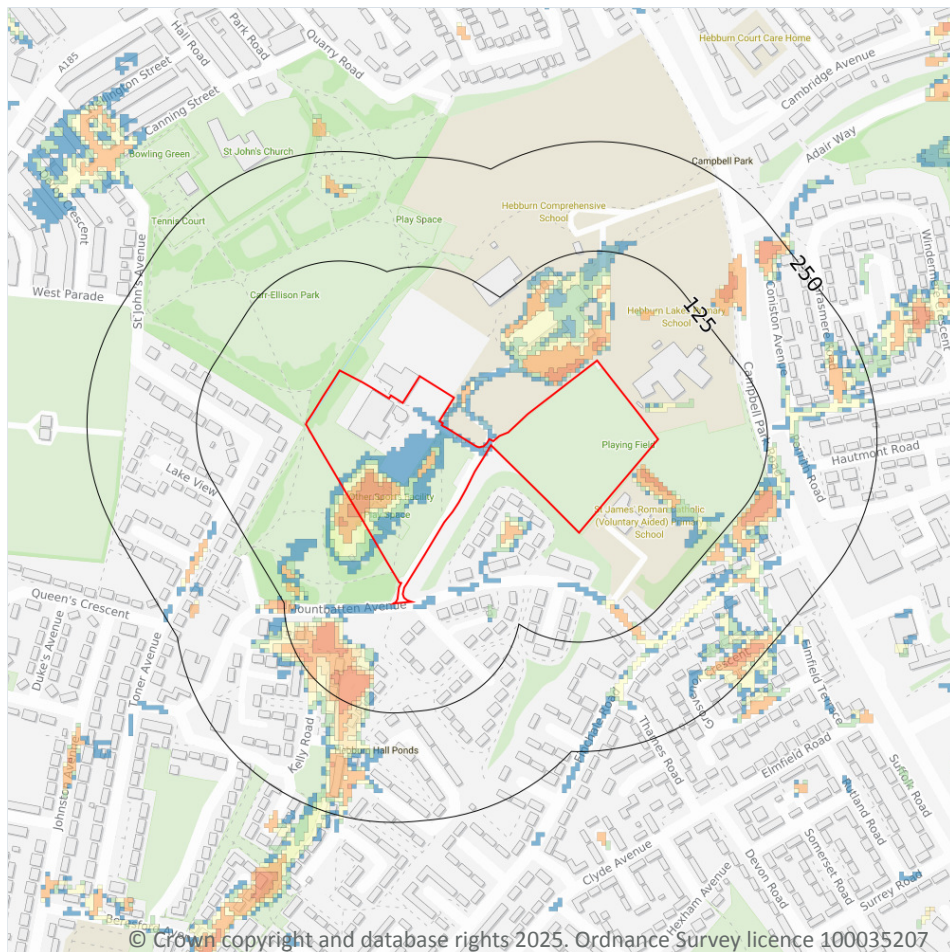
0

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

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



8 Surface water flooding



— 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, 0.3m - 1.0m

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 53 >](#)

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.

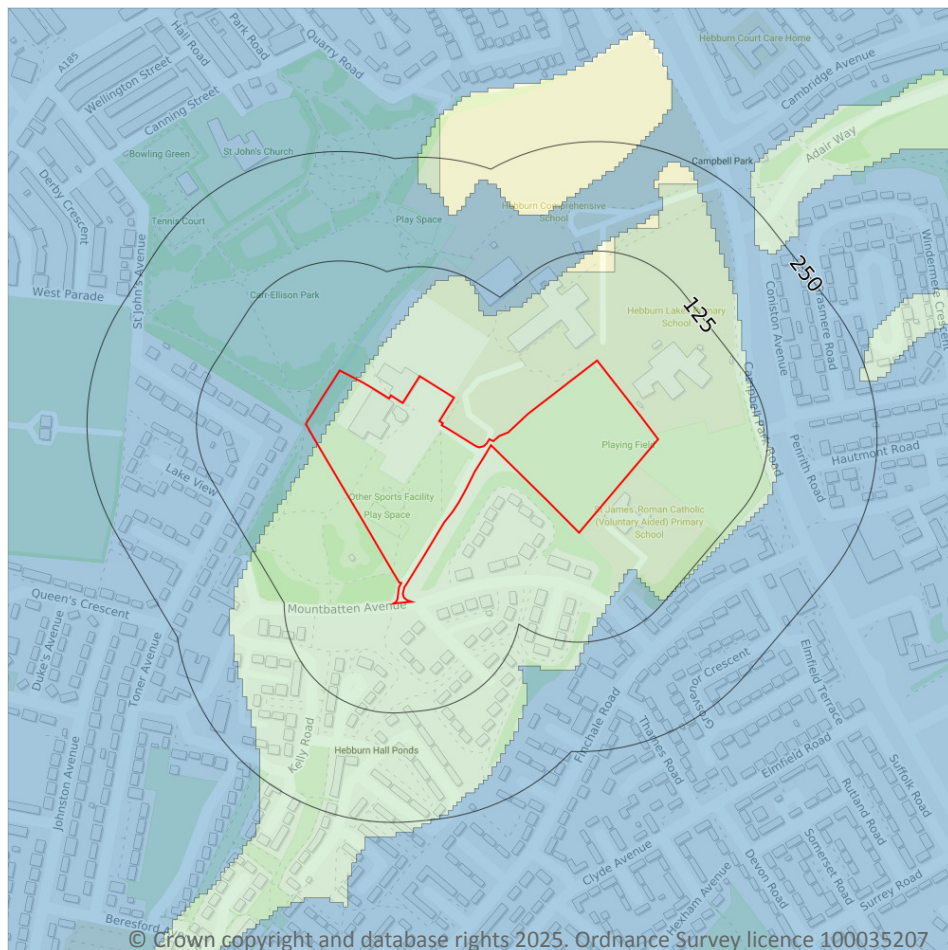
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

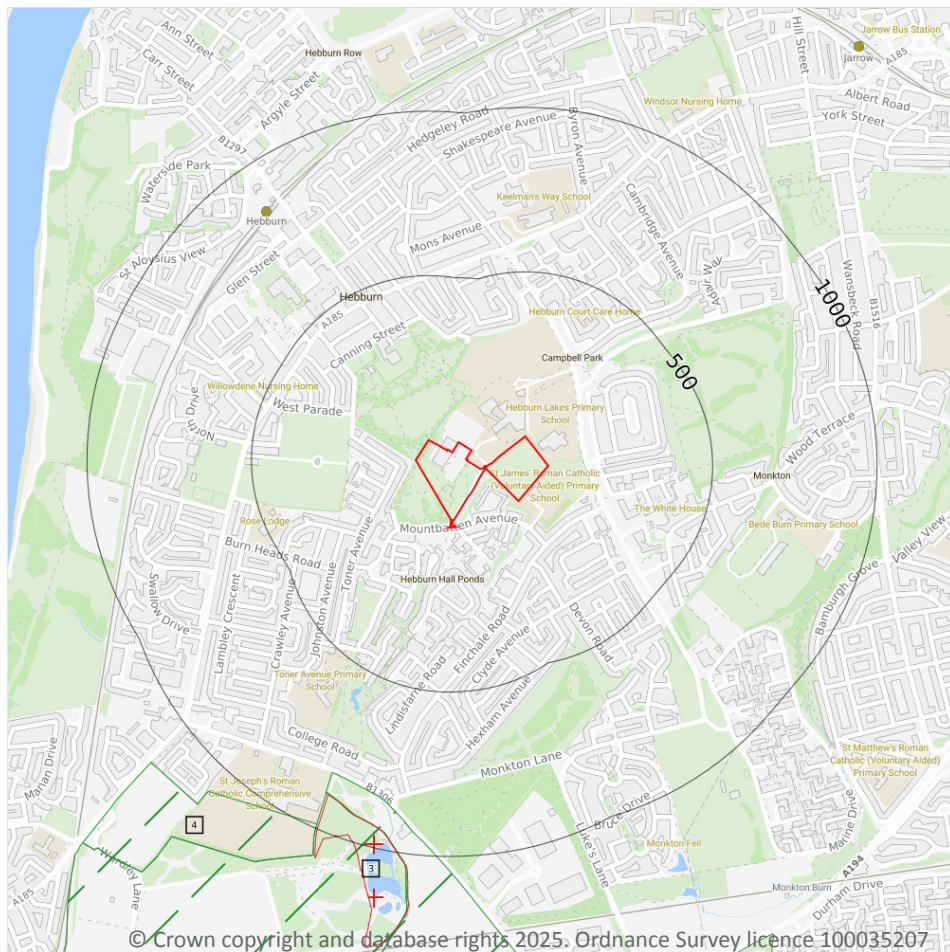
Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks 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 55 >](#)

This data is sourced from Ambiantal Risk Analytics.



10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**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 56 >](#)

ID	Location	Name	Data source
3	891m SW	Pelaw Quarry Pond	Natural England
-	1541m E	Primrose	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m**0**

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

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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

10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

3

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

Features are displayed on the Environmental designations map on [page 56 >](#)

ID	Location	Name	Local Authority name
1	824m SW	Tyne and Wear Green Belt	South Tyneside
2	887m SW	Tyne and Wear Green Belt	Gateshead
4	986m SW	Tyne and Wear Green Belt	South Tyneside

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

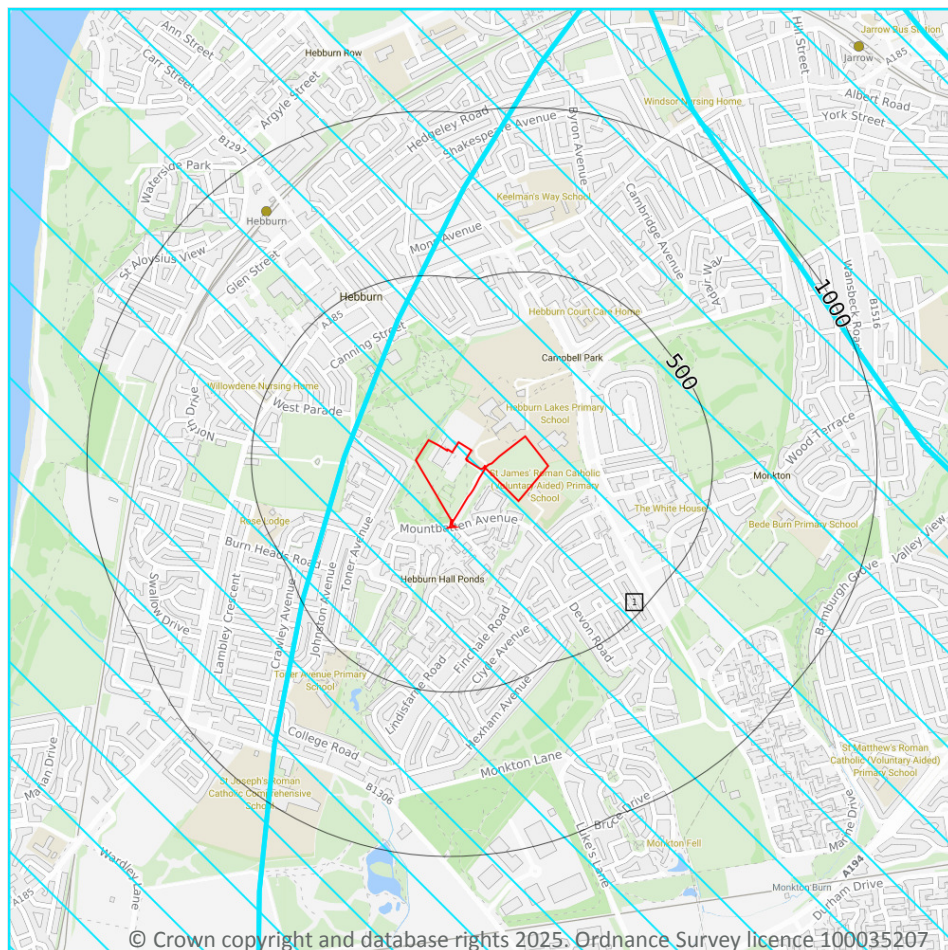
Records within 2000m

0

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.

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 61](#) >

ID	Location	Type of developments requiring consultation
1	On site	https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0310000532000&notes=&location=432698,561567%20(IRZ%20polygon%20centre)

This data is sourced from Natural England.



10.18 SSSI Units

Records within 2000m

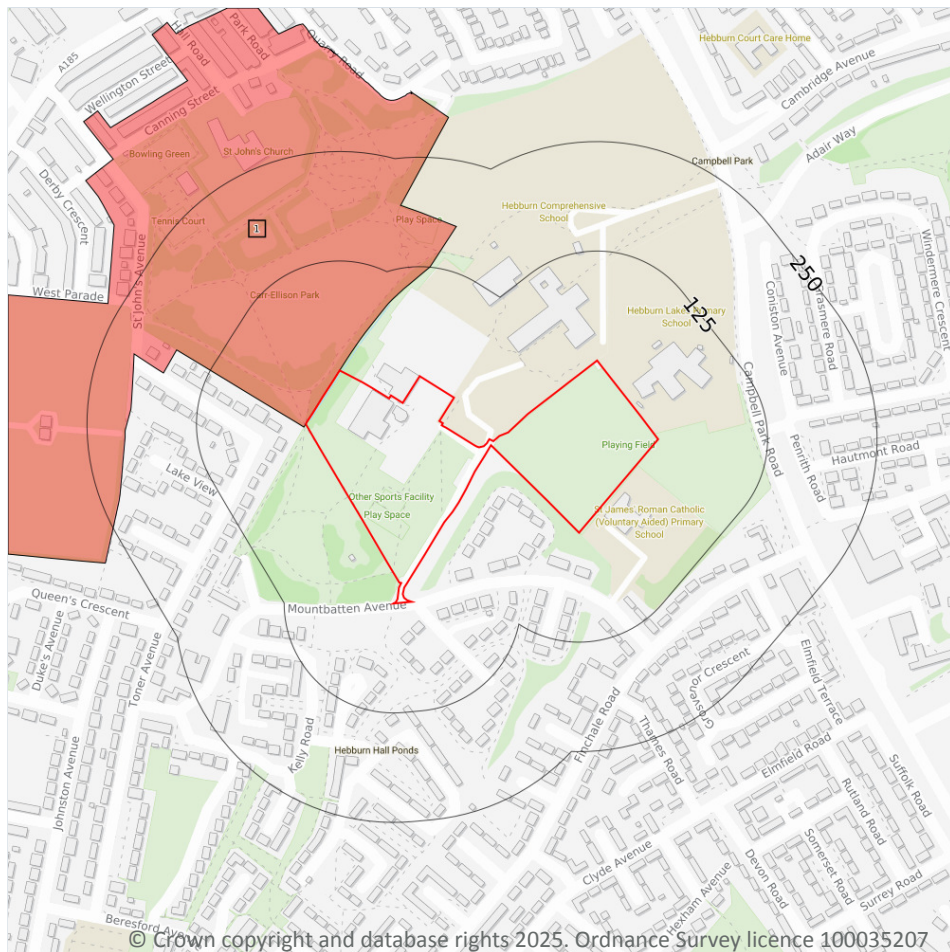
0

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

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



11 Visual and cultural designations



- 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**0**

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

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

11.5 Conservation Areas

Records within 250m**1**

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



Features are displayed on the Visual and cultural designations map on [page 63](#) >

ID	Location	Name	District	Date of designation
1	On site	Hebburn Hall	South Tyneside	unknown

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.

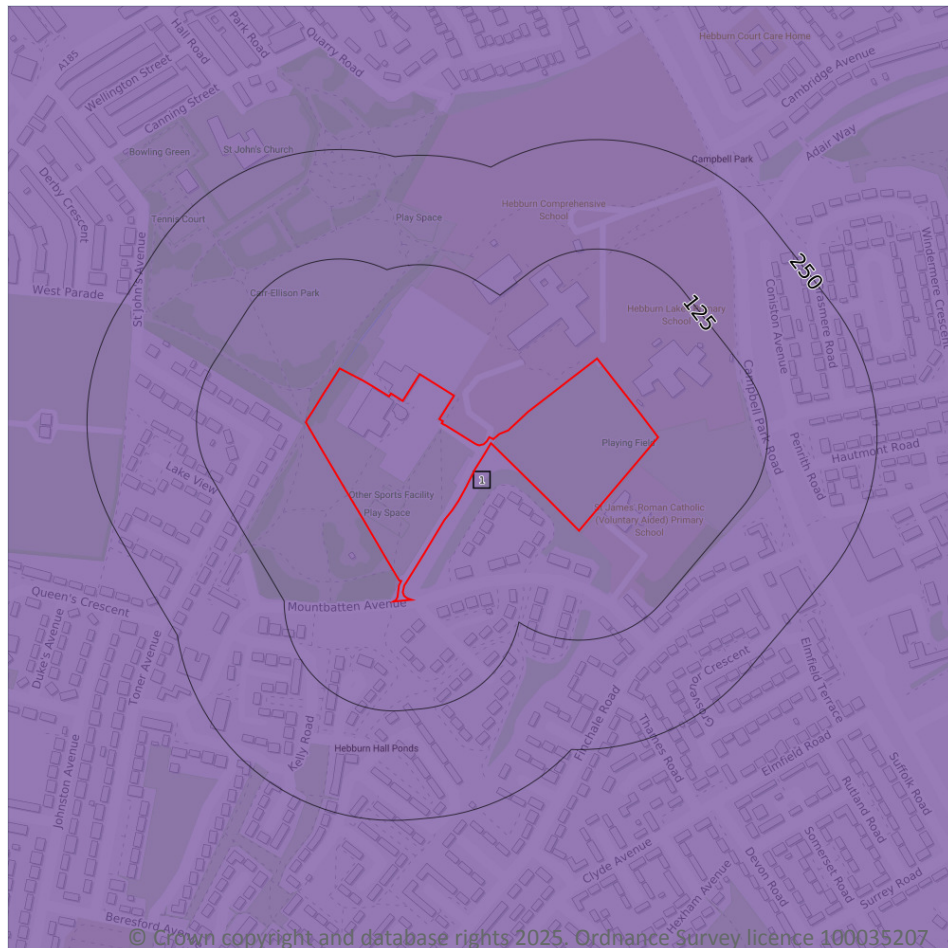
11.7 Registered Parks and Gardens

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

1

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 66](#) >

ID	Location	Classification	Description
1	On site	Urban	Non-agricultural/no quality assigned

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

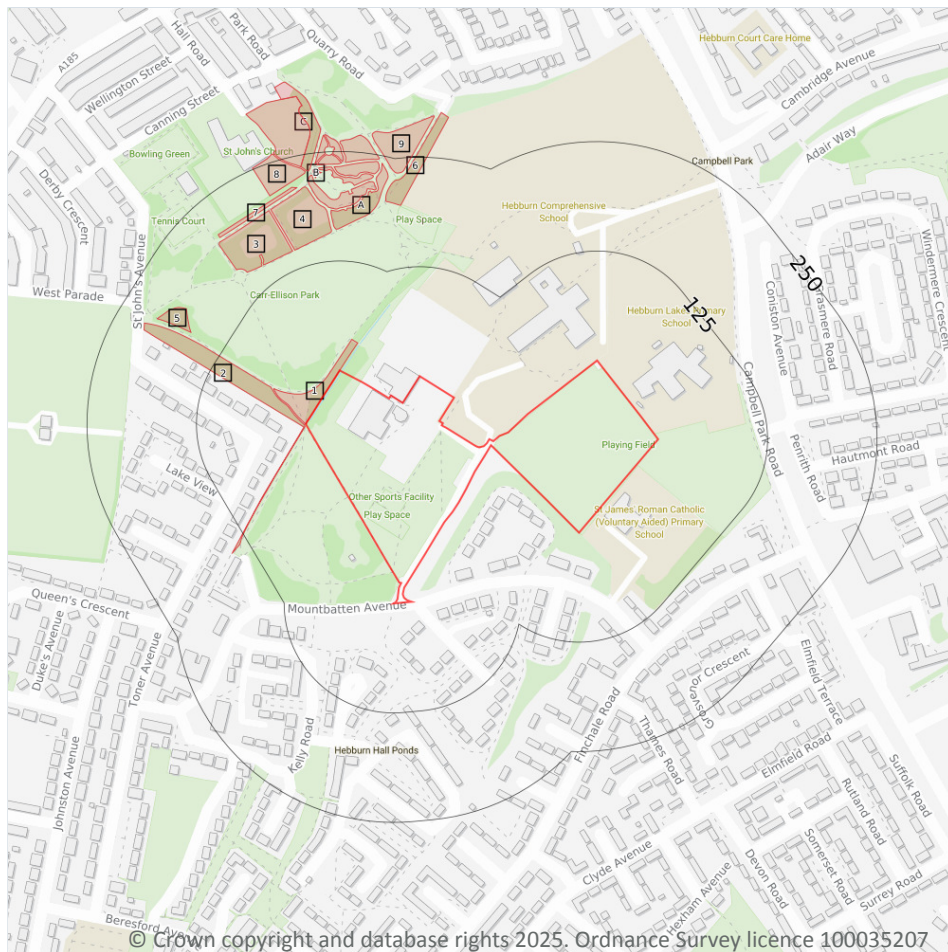
Records within 250m

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

20

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 68](#) >

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	2m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	146m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	147m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
A	161m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	167m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	184m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	196m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	202m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	212m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	215m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	222m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	223m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	231m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	233m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	236m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	237m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	238m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	238m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	239m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.



13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

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

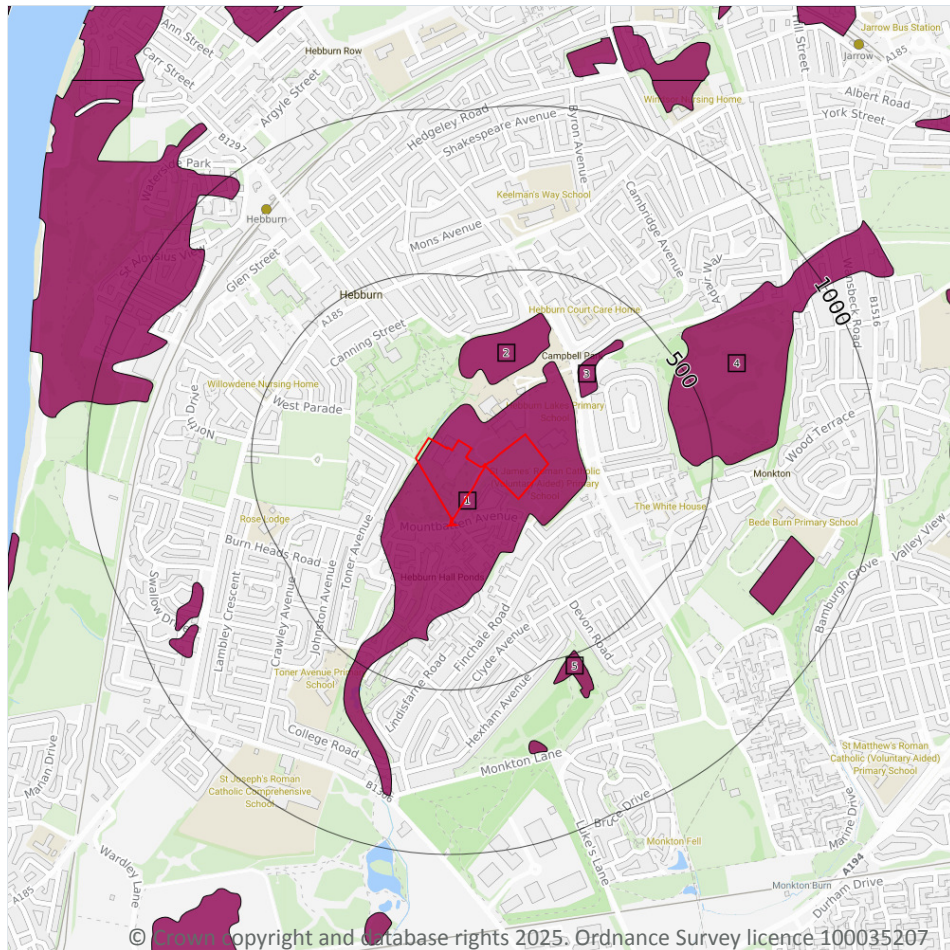
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 71](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	NZ36SW

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

5

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 72](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	178m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	204m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	397m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

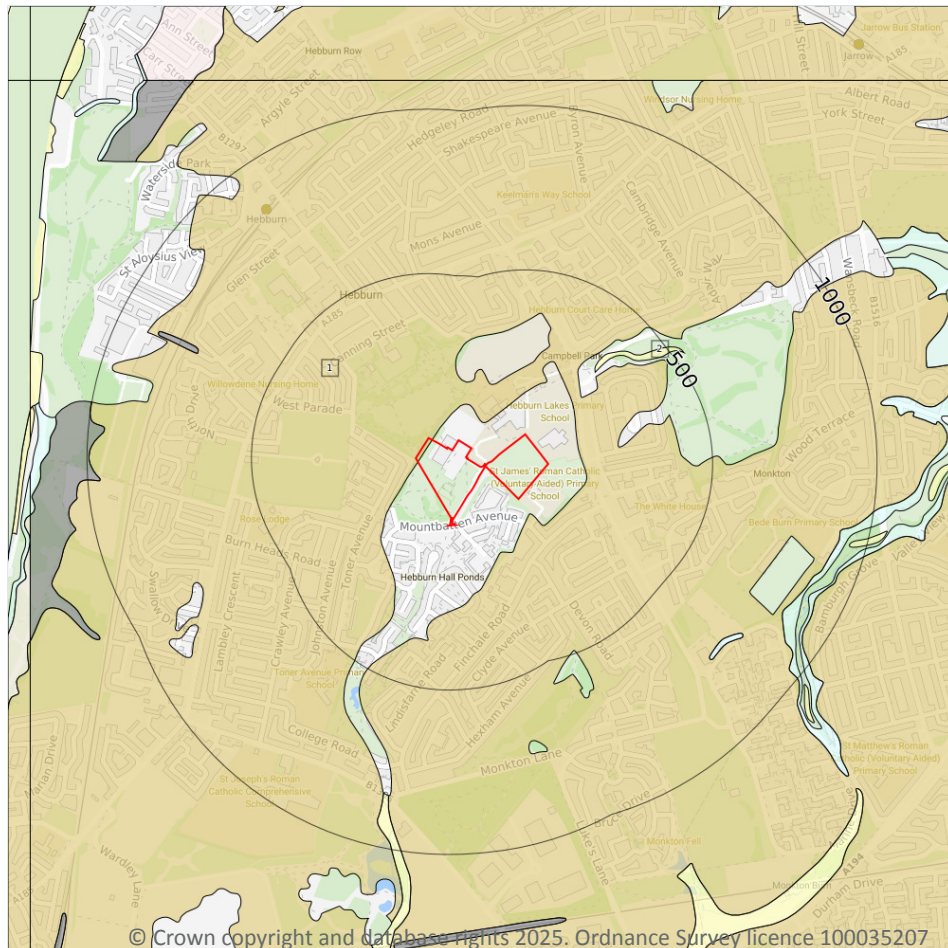


ID	Location	LEX Code	Description	Rock description
5	490m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

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

2

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 74](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	PELC-C	Pelaw Clay Member - Clay	Clay
2	284m NE	ALV-XVSZ	Alluvium - Gravel, Sand And Silt	Gravel, Sand And Silt

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

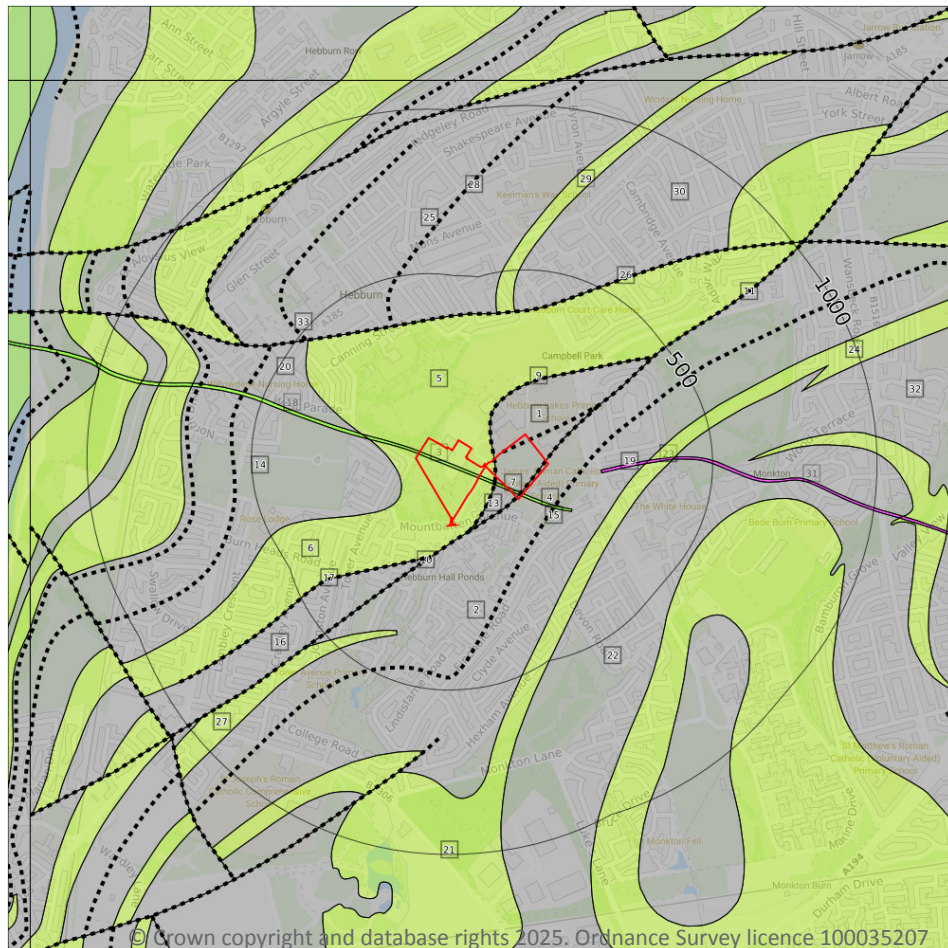
0

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

23

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 76](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
2	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age

ID	Location	LEX Code	Description	Rock age
3	On site	PDNB-MCGB	North Britain Palaeogene Dyke Suite - Microgabbro	Palaeogene Period
4	On site	PDNB-MCGB	North Britain Palaeogene Dyke Suite - Microgabbro	Palaeogene Period
5	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
6	On site	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
7	On site	PDNB-MCGB	North Britain Palaeogene Dyke Suite - Microgabbro	Palaeogene Period
8	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
14	68m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
16	109m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
18	152m W	PDNB-MCGB	North Britain Palaeogene Dyke Suite - Microgabbro	Palaeogene Period
19	162m E	HBDY-MCGB	Hebburn Dyke - Microgabbro	Palaeogene Period
20	182m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
21	234m SE	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
22	283m SE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
23	296m E	HBDY-MCGB	Hebburn Dyke - Microgabbro	Palaeogene Period
24	306m E	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
25	354m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
27	357m SW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
29	375m N	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
30	375m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
31	379m E	HBDY-MCGB	Hebburn Dyke - Microgabbro	Palaeogene Period
32	386m E	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

10

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.

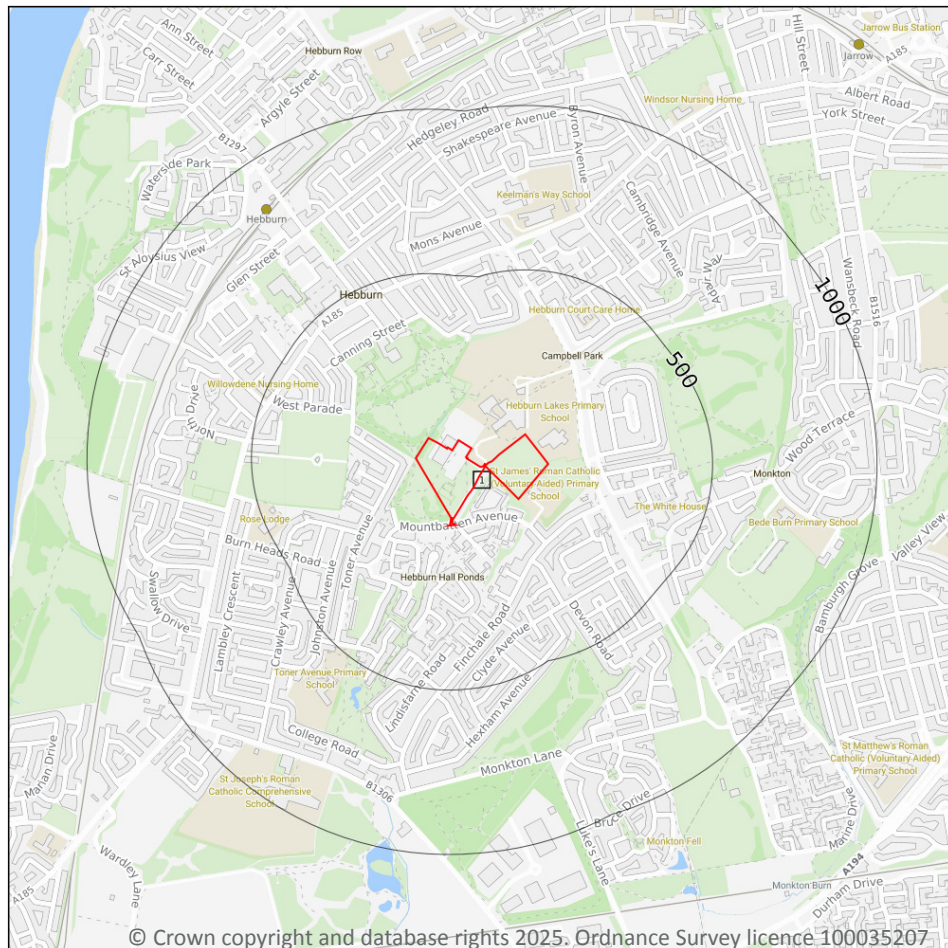
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 76 >](#)

ID	Location	Category	Description
9	On site	ROCK	Coal seam, inferred coincident with bedrock geology boundary
10	On site	FAULT	Normal fault, inferred
11	On site	FAULT	Normal fault, inferred
12	14m SW	ROCK	Coal seam, inferred coincident with bedrock geology boundary
13	21m SW	ROCK	Coal seam, inferred coincident with bedrock geology boundary
15	93m SE	FOSSIL_HORIZON	Fossil horizon, marine band
17	109m SW	ROCK	Coal seam, inferred coincident with bedrock geology boundary
26	354m N	FAULT	Normal fault, inferred
28	357m N	FOSSIL_HORIZON	Fossil horizon, marine band
33	476m NW	ROCK	Coal seam, inferred

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.

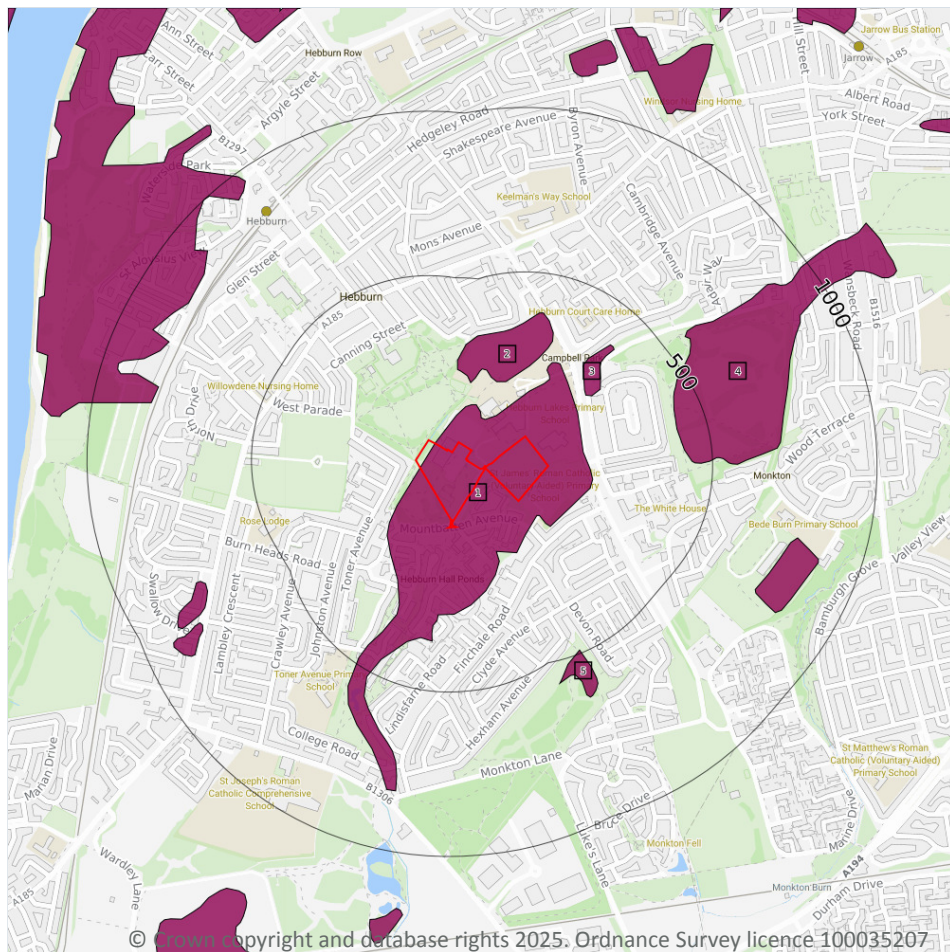
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 79](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW021_sunderland_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

5

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 80](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	176m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	222m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	407m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT



ID	Location	LEX Code	Description	Rock description
5	490m S	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

1

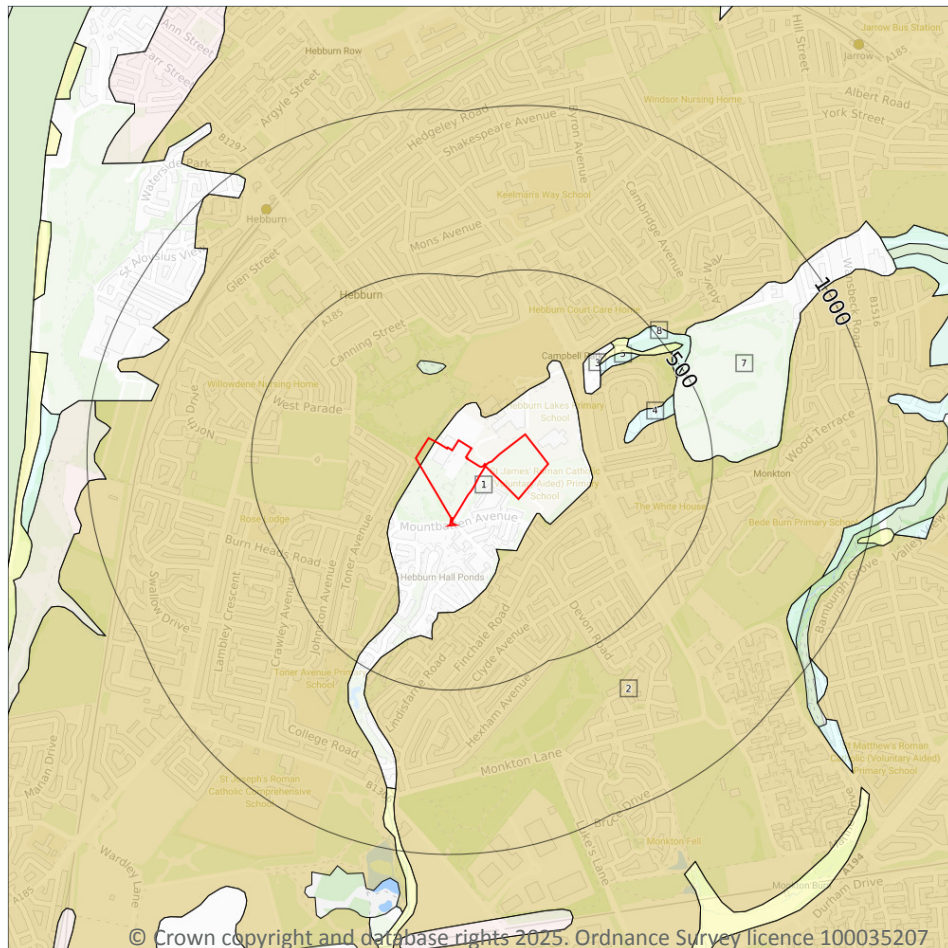
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

8

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 82](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	SUPNM-UNKNOWN	SUPERFICIAL THEME NOT MAPPED [FOR DIGITAL MAP USE ONLY]	UNKNOWN/UNCLASSIFIED ENTRY
2	On site	PELC-C	PELAW CLAY MEMBER	CLAY
3	222m NE	SUPNM-UNKNOWN	SUPERFICIAL THEME NOT MAPPED [FOR DIGITAL MAP USE ONLY]	UNKNOWN/UNCLASSIFIED ENTRY



ID	Location	LEX Code	Description	Rock description
4	243m E	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
5	290m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
6	311m NE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
7	407m E	SUPNM- UNKNOWN	SUPERFICIAL THEME NOT MAPPED [FOR DIGITAL MAP USE ONLY]	UNKNOWN/UNCLASSIFIED ENTRY
8	409m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

2

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	Mixed	Very High	Very Low
On site	Mixed	Low	Very 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

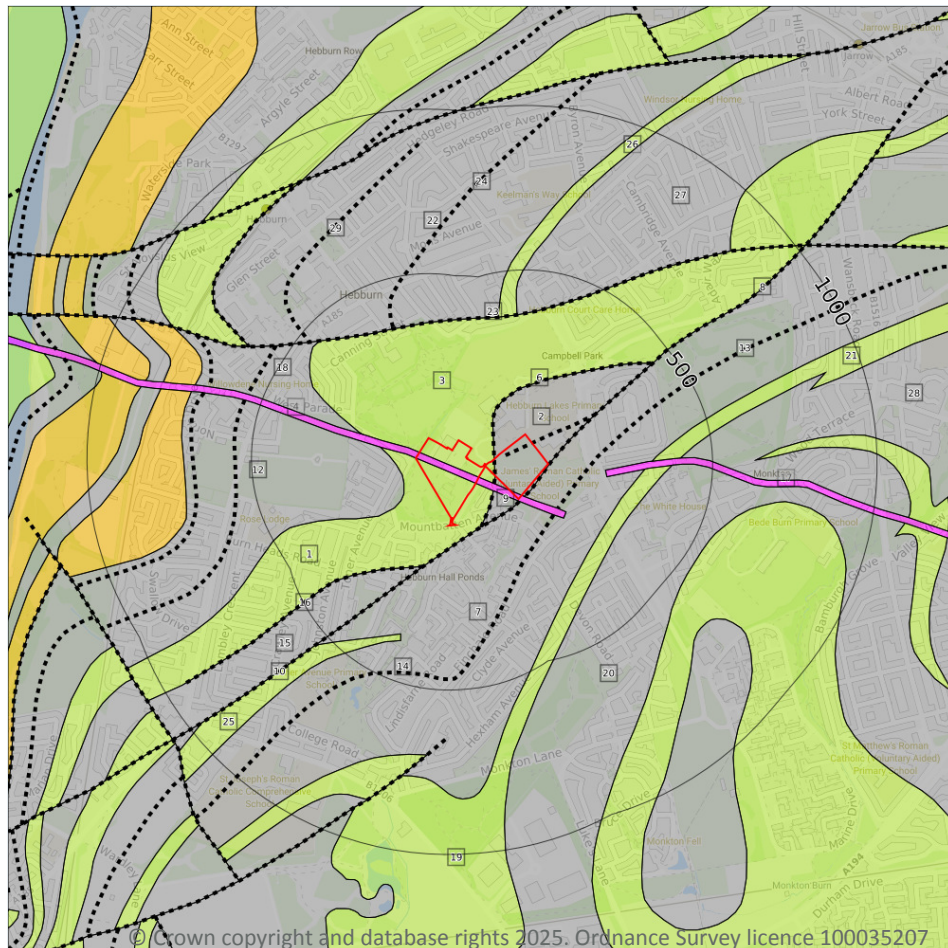
0

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



— 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

18

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 84](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
2	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
3	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
4	On site	HBDY-MCGB	HEBBURN DYKE - MICROGABBRO	-
7	4m SE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	6m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
12	61m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	147m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
17	176m E	HBDY-MCGB	HEBBURN DYKE - MICROGABBRO	-
18	178m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	244m SE	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
20	292m SE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
21	317m E	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
22	346m N	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
25	361m SW	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
26	364m N	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
27	364m N	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
28	403m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.



15.9 Bedrock permeability (50k)

Records within 50m

4

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	Moderate	Low
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	Low	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

11

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 84](#) >

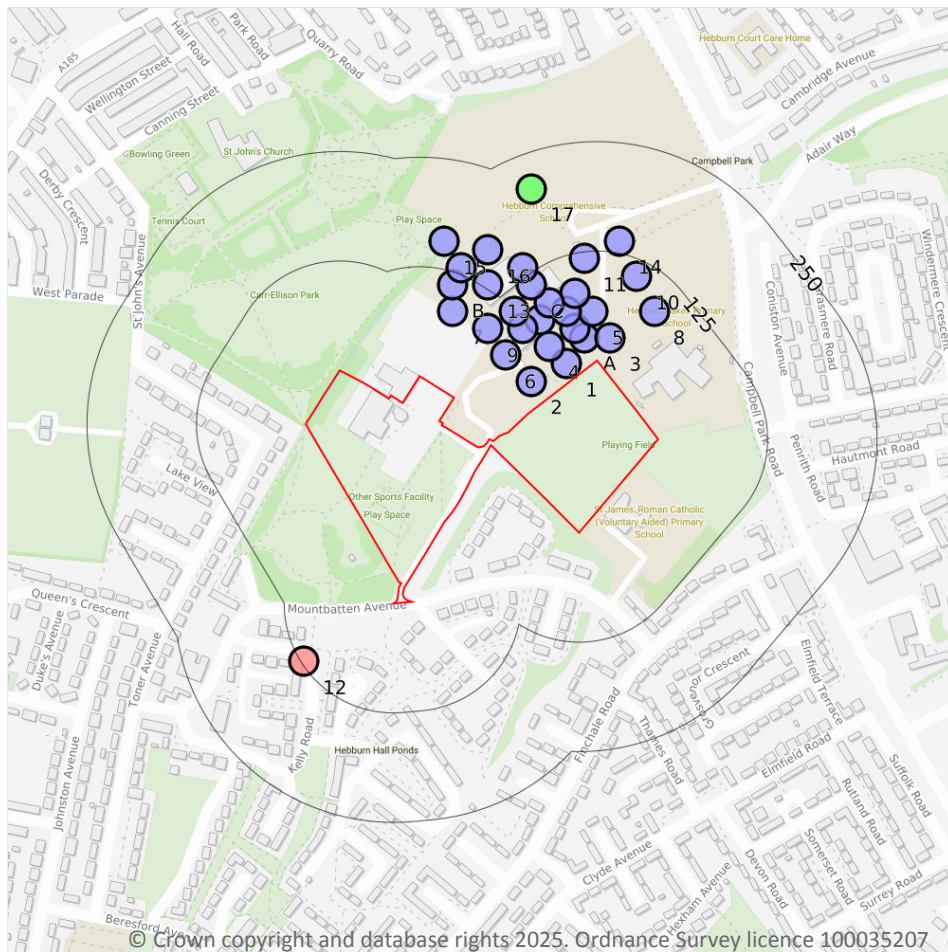
ID	Location	Category	Description
5	On site	FAULT	Fault, inferred, displacement unknown
6	On site	ROCK	Coal seam, inferred
8	4m SE	FAULT	Fault, inferred, displacement unknown
10	8m S	FAULT	Fault, inferred, displacement unknown
11	36m SW	ROCK	Coal seam, inferred
13	103m SE	FOSSIL_HORIZON	Marine band
14	113m SE	FOSSIL_HORIZON	Marine band
16	147m SW	ROCK	Coal seam, inferred
23	346m N	FAULT	Fault, inferred, displacement unknown
24	349m N	FOSSIL_HORIZON	Marine band
29	465m NW	ROCK	Coal seam, inferred



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

29

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 88](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	18m NW	431470 563920	HEBBURN GLEGWELL SCHOOL 5	3.15	N	841155 ↗
2	27m NW	431430 563900	HEBBURN GLEGWELL SCHOOL 4	5.4	N	841154 ↗
A	30m NW	431490 563950	HEBBURN GLEGWELL SCHOOL 59	4.3	N	841170 ↗

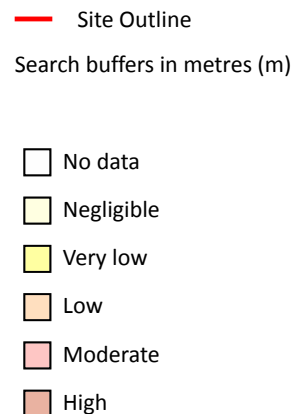
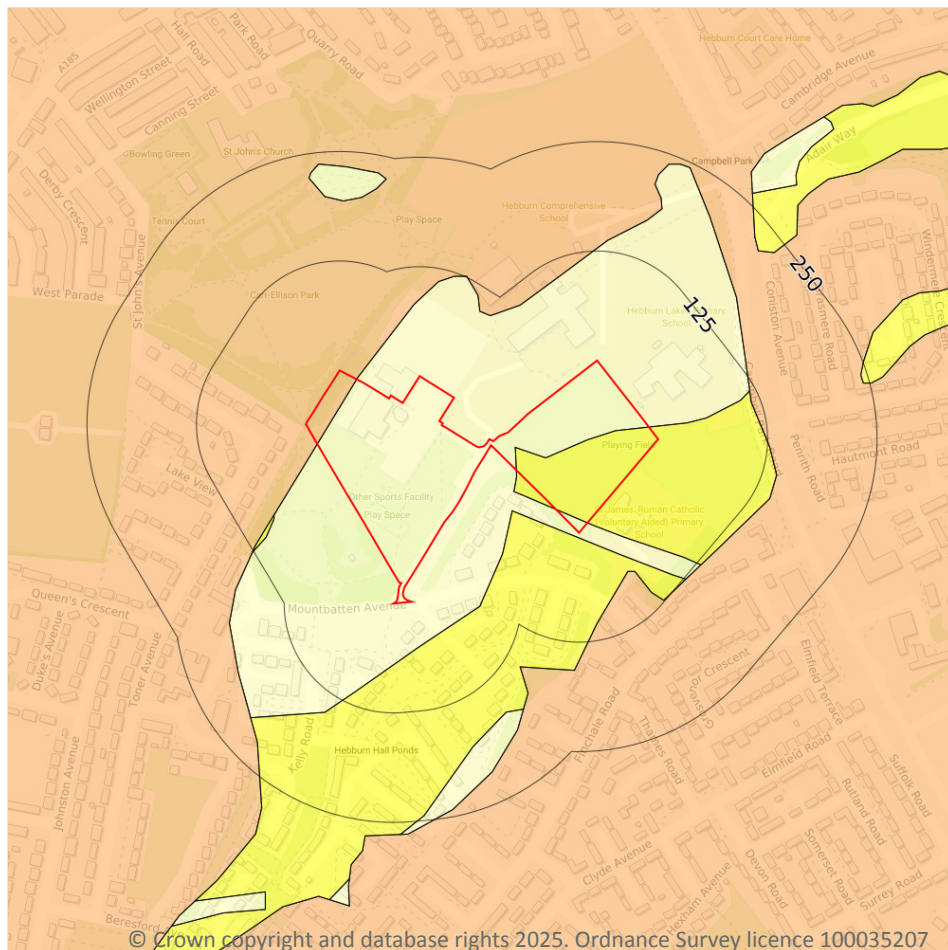


ID	Location	Grid reference	Name	Length	Confidential	Web link
3	30m NE	431520 563950	HEBBURN GLEGWELL SCHOOL 6	0.5	N	841156 ↗
A	44m NW	431480 563960	HEBBURN GLEGWELL SCHOOL 58	4.0	N	841169 ↗
4	46m NW	431450 563940	HEBBURN GLEGWELL SCHOOL 60	4.5	N	841171 ↗
5	57m N	431500 563980	HEBBURN GLEGWELL SCHOOL 61	4.5	N	841172 ↗
A	66m NW	431470 563980	HEBBURN GLEGWELL SCHOOL 3	5.35	N	841153 ↗
6	69m NW	431400 563930	HEBBURN GLEGWELL SCHOOL 51	3.5	N	841162 ↗
A	76m NW	431440 563970	HEBBURN GLEGWELL SCHOOL 55	4.0	N	841166 ↗
A	80m N	431480 564000	HEBBURN GLEGWELL SCHOOL 57	4.0	N	841168 ↗
A	81m NW	431420 563960	HEBBURN GLEGWELL SCHOOL 54	4.0	N	841165 ↗
7	83m NE	431340 563980	HEBBURN GLEGWELL SCHOOL 65	4.55	N	841176 ↗
8	86m NE	431570 563980	HEBBURN GLEGWELL SCHOOL 7	6.4	N	841157 ↗
A	86m NW	431450 563990	HEBBURN GLEGWELL SCHOOL 56	4.0	N	841167 ↗
9	87m NE	431380 563960	HEBBURN GLEGWELL SCHOOL 50	1.5	N	841161 ↗
A	103m NW	431410 563980	HEBBURN GLEGWELL SCHOOL 52	3.0	N	841163 ↗
10	106m NE	431550 564020	HEBBURN GLEGWELL SCHOOL 8	5.3	N	841158 ↗
B	111m N	431340 564010	HEBBURN GLEGWELL SCHOOL 64	4.75	N	841175 ↗
C	114m NW	431430 564010	HEBBURN GLEGWELL SCHOOL 53	3.0	N	841164 ↗
11	117m N	431490 564040	HEBBURN GLEGWELL SCHOOL 10	2.0	N	841160 ↗
12	122m SW	431170 563580	STAPLE PIT HEBBURN HALL PONDS U/G BH	48.46	N	840678 ↗
13	130m NE	431380 564010	HEBBURN GLEGWELL SCHOOL 62	4.5	N	841173 ↗
B	133m N	431350 564030	HEBBURN GLEGWELL SCHOOL 63	4.5	N	841174 ↗
C	136m NW	431420 564030	HEBBURN GLEGWELL SCHOOL 66	5.0	N	841177 ↗
14	139m N	431530 564060	HEBBURN GLEGWELL SCHOOL 9	5.1	N	841159 ↗
15	157m N	431330 564060	HEBBURN GLEGWELL SCHOOL 67	4.25	N	841178 ↗
16	164m NE	431380 564050	HEBBURN GLEGWELL SCHOOL 1	5.95	N	841151 ↗
17	210m N	431430 564120	HEBBURN GLEGWELL SCHOOL 2	13.35	N	841152 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

4

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 90 >](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
On site	Low	Ground conditions predominantly medium plasticity.

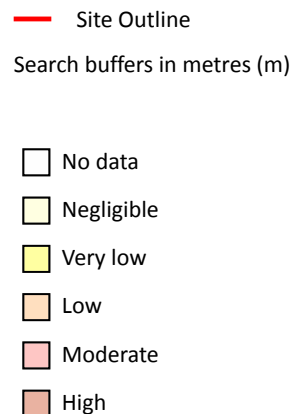
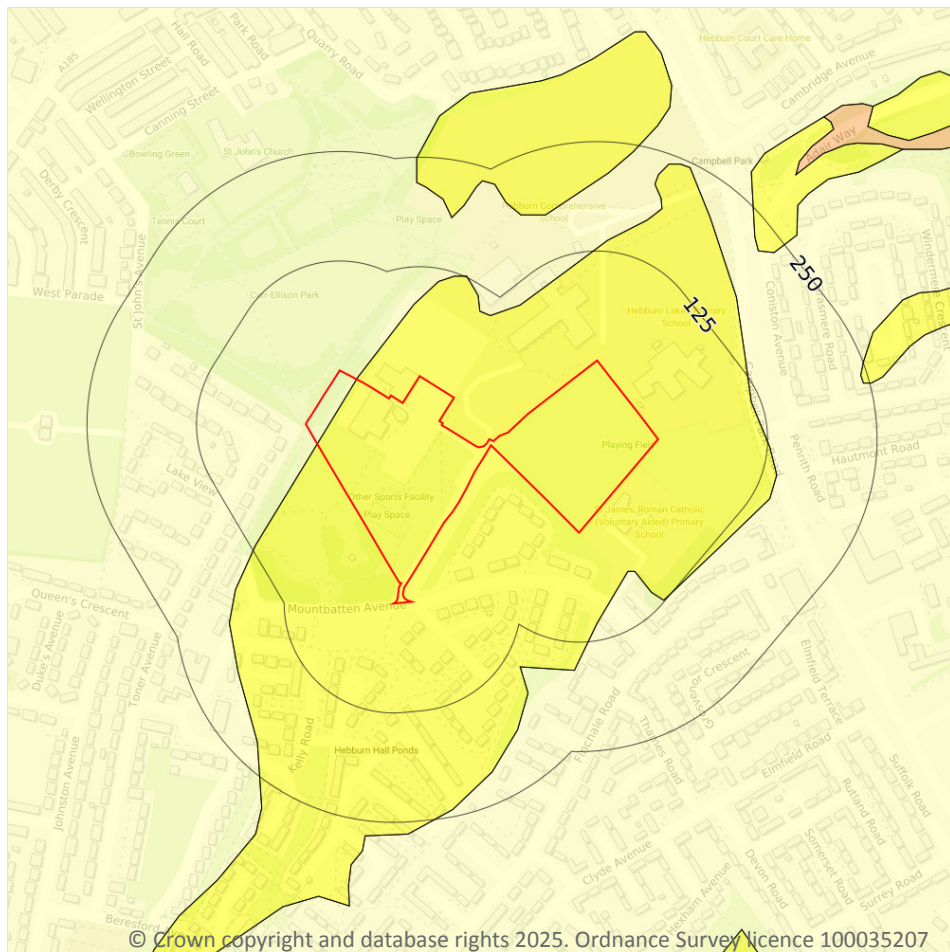


Location	Hazard rating	Details
6m S	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

2

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 92 >](#)

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

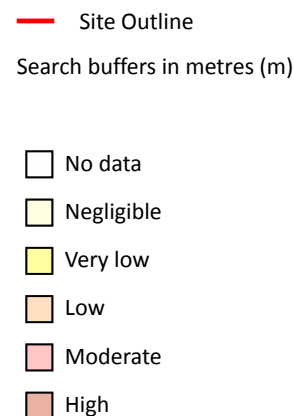
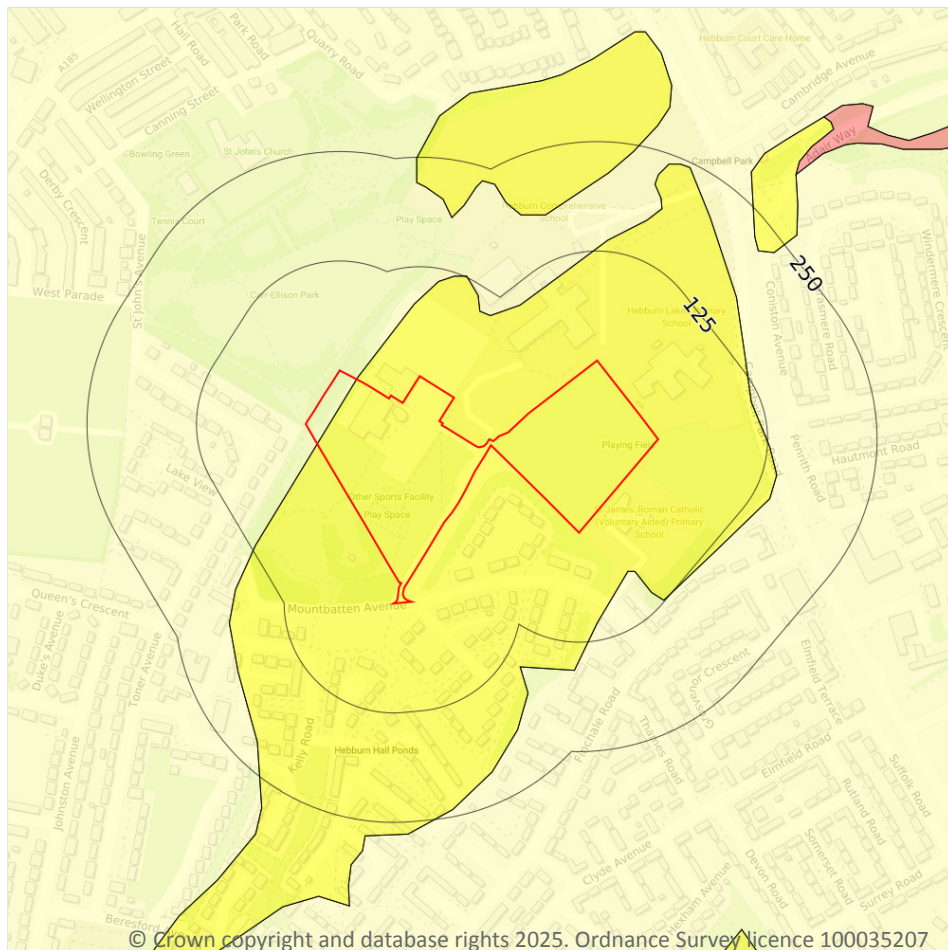


Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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 94](#) >

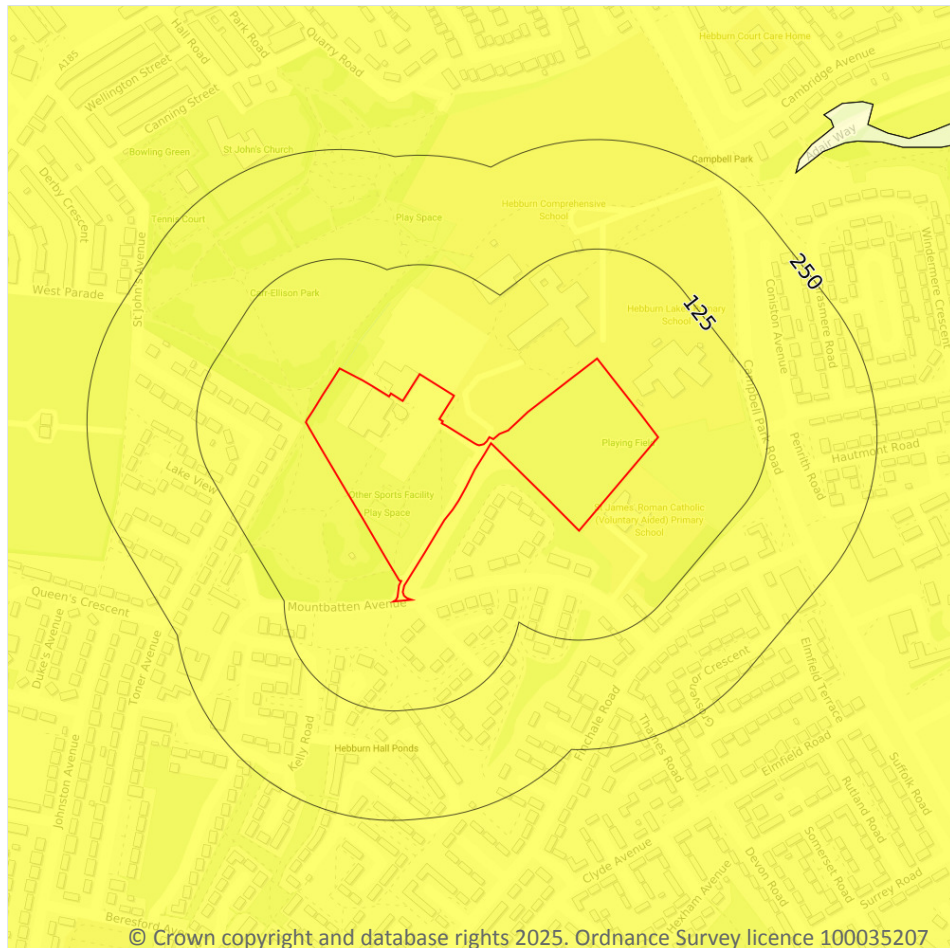
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.



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

1

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

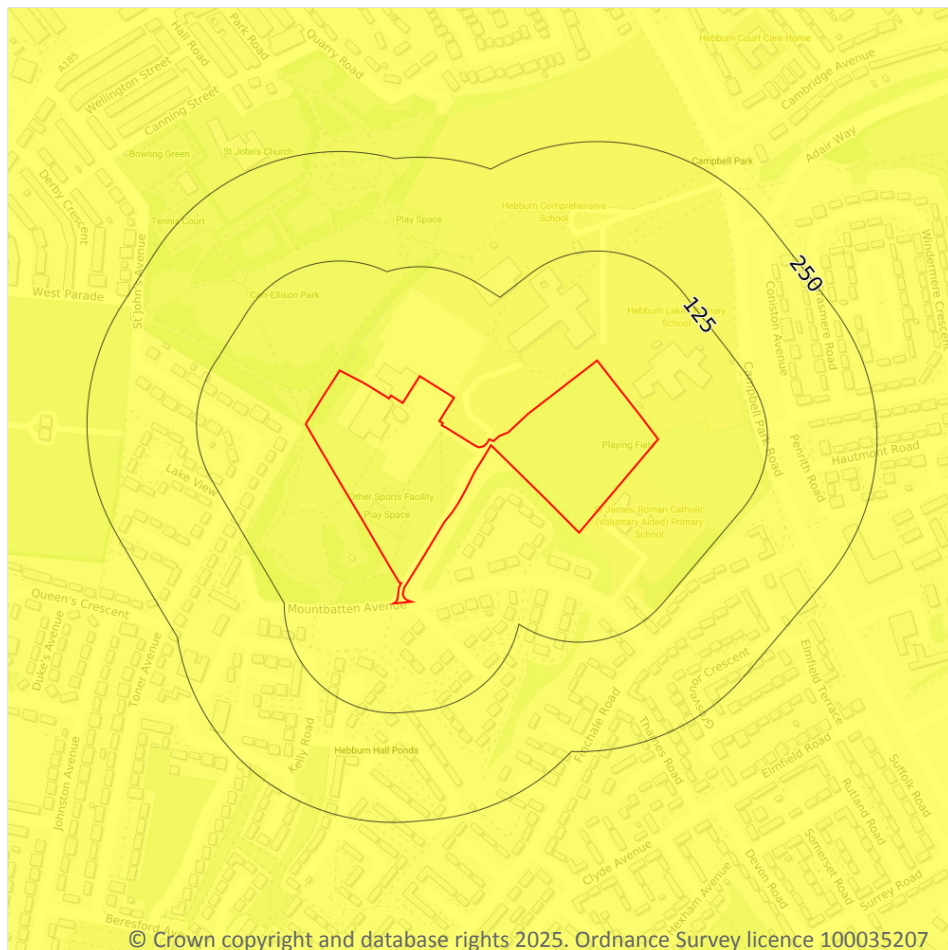
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 96](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- 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.

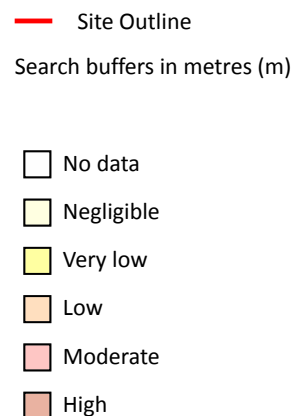
Features are displayed on the Natural ground subsidence - Landslides map on [page 97 >](#)

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



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 98](#)

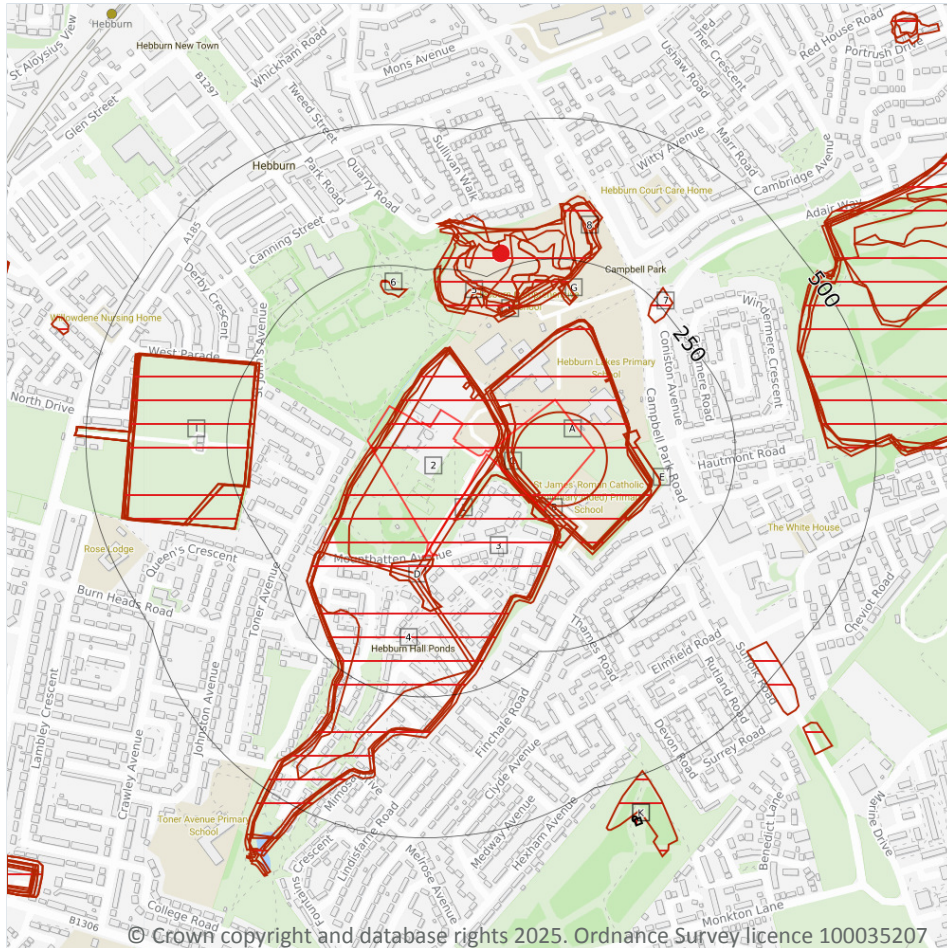
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining and ground workings



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

18.1 BritPits

Records within 500m

1

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.

Features are displayed on the Mining and ground workings map on [page 100](#) >



ID	Location	Details	Description
H	278m N	Name: Hebburn Hall Quarry Address: SOUTH SHIELDS, Tyne and Wear Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

45

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 100 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Ponds	1895	1:10560
2	On site	Ponds	1951	1:10560
3	On site	Ponds	1951	1:10560
A	On site	Ponds	1951	1:10560
A	On site	Ponds	1938	1:10560
A	On site	Ponds	1921	1:10560
A	On site	Ponds	1895	1:10560
A	On site	Ponds	1973	1:10000
B	On site	Unspecified Heap	1973	1:10000
B	On site	Unspecified Heap	1992	1:10000
C	On site	Unspecified Ground Workings	1973	1:10000
C	On site	Unspecified Ground Workings	1992	1:10000
D	On site	Ponds	1938	1:10560
D	On site	Ponds	1921	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	On site	Ponds	1895	1:10560
D	7m S	Unspecified Heap	1973	1:10000
D	7m S	Unspecified Heap	1992	1:10000
4	45m SW	Ponds	1951	1:10560
E	59m NE	Unspecified Ground Workings	1973	1:10000
E	59m NE	Unspecified Ground Workings	1992	1:10000
F	169m NW	Unspecified Pit	1921	1:10560
G	171m N	Cuttings	1895	1:10560
H	171m N	Unspecified Quarry	1938	1:10560
H	175m N	Pond	1921	1:10560
H	175m N	Unspecified Quarry	1921	1:10560
F	175m NW	Cuttings	1895	1:10560
G	177m N	Cuttings	1895	1:10560
F	179m NW	Cuttings	1895	1:10560
H	179m NW	Refuse Heap	1951	1:10560
H	179m NW	Pond	1951	1:10560
5	181m N	Unspecified Ground Workings	1951	1:10560
H	187m N	Unspecified Quarry	1895	1:10560
H	192m N	Unspecified Quarry	1895	1:10560
H	192m N	Pond	1938	1:10560
6	195m N	Pond	1856	1:10560
I	203m W	Cemetery	1895	1:10560
I	203m W	Cemetery	1895	1:10560
I	211m W	Cemetery	1951	1:10560
I	211m W	Cemetery	1973	1:10000
I	211m W	Cemetery	1965	1:10560
I	211m W	Cemetery	1992	1:10000
I	211m W	Cemetery	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
I	211m W	Cemetery	1921	1:10560
7	223m NE	Unspecified Pit	1973	1:10000
8	236m N	Pond	1951	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

3

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

Features are displayed on the Mining and ground workings map on [page 100 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
K	566m S	Unspecified Old Shaft	1951	1:10560
K	571m S	Unspecified Disused Shaft	1965	1:10560
-	988m NE	Colliery	1895	1:10560

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

0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

1

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.

Location	Mineral type
169m N	Stone

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

1

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

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site

0

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

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

18.14 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

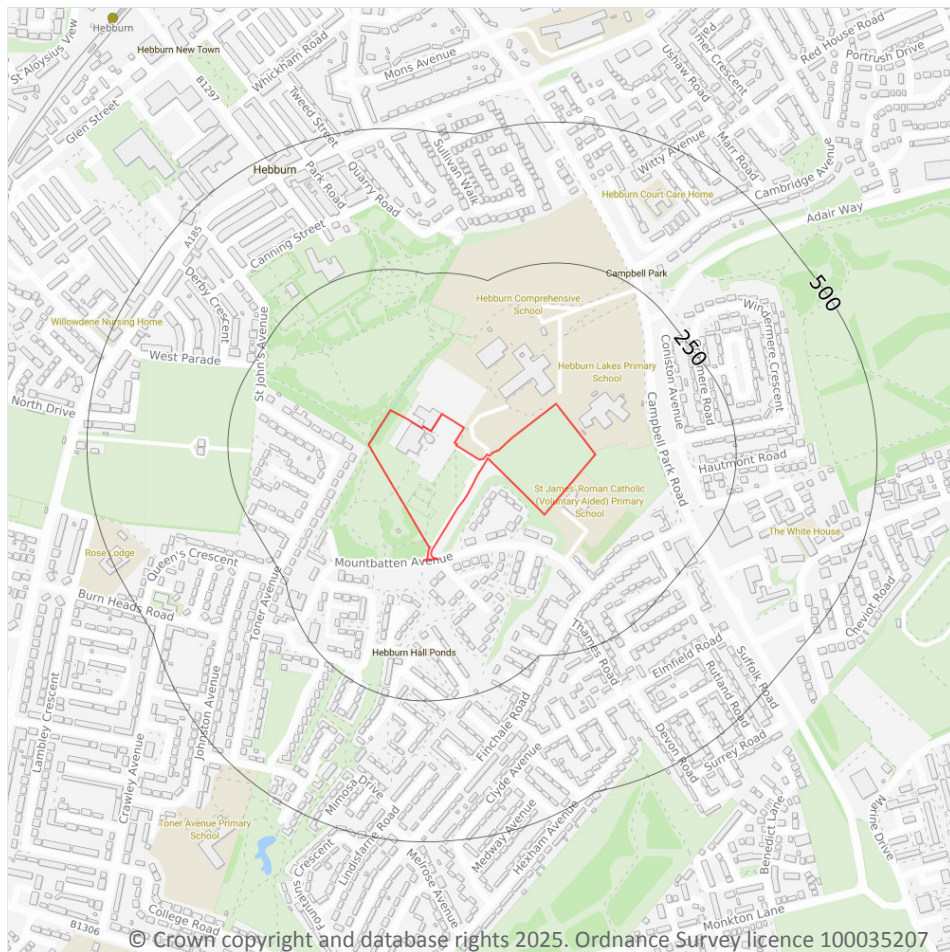
18.16 Clay mining

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

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

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

19 Ground cavities and sinkholes



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

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

1

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.

Features are displayed on the Ground cavities and sinkholes map on [page 107 >](#)

ID	Location	Mine Address	Mineral
-	941m N	Hebburn Blue Clay, Tyne And Wear	Fireclay

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

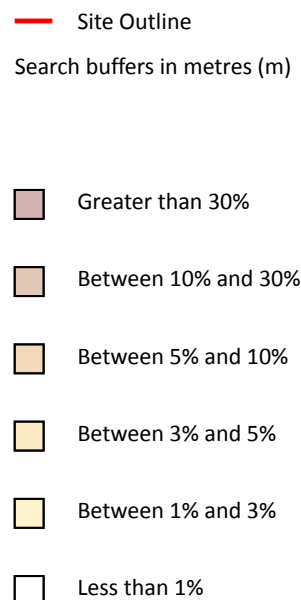
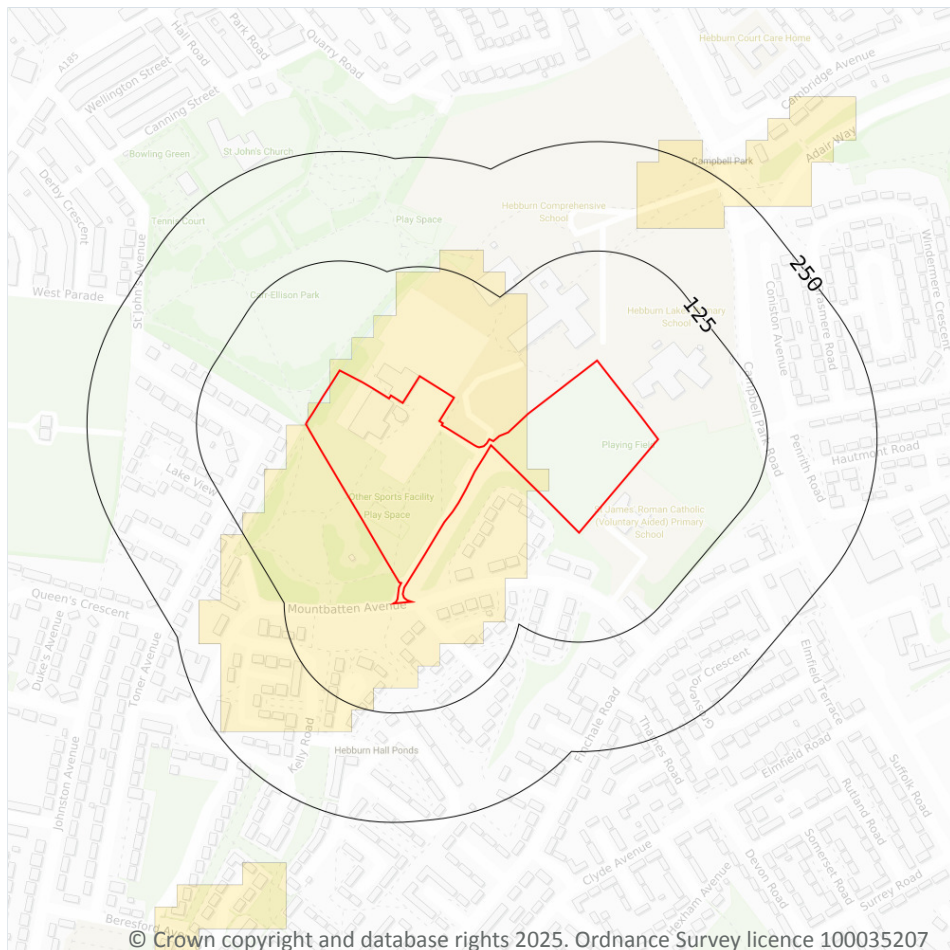
This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a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

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

This data is sourced from Groundsure.



20 Radon



20.1 Radon

Records on site

2

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 109](#) >

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None



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

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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

13

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 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
3m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
6m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
6m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
8m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
20m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 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

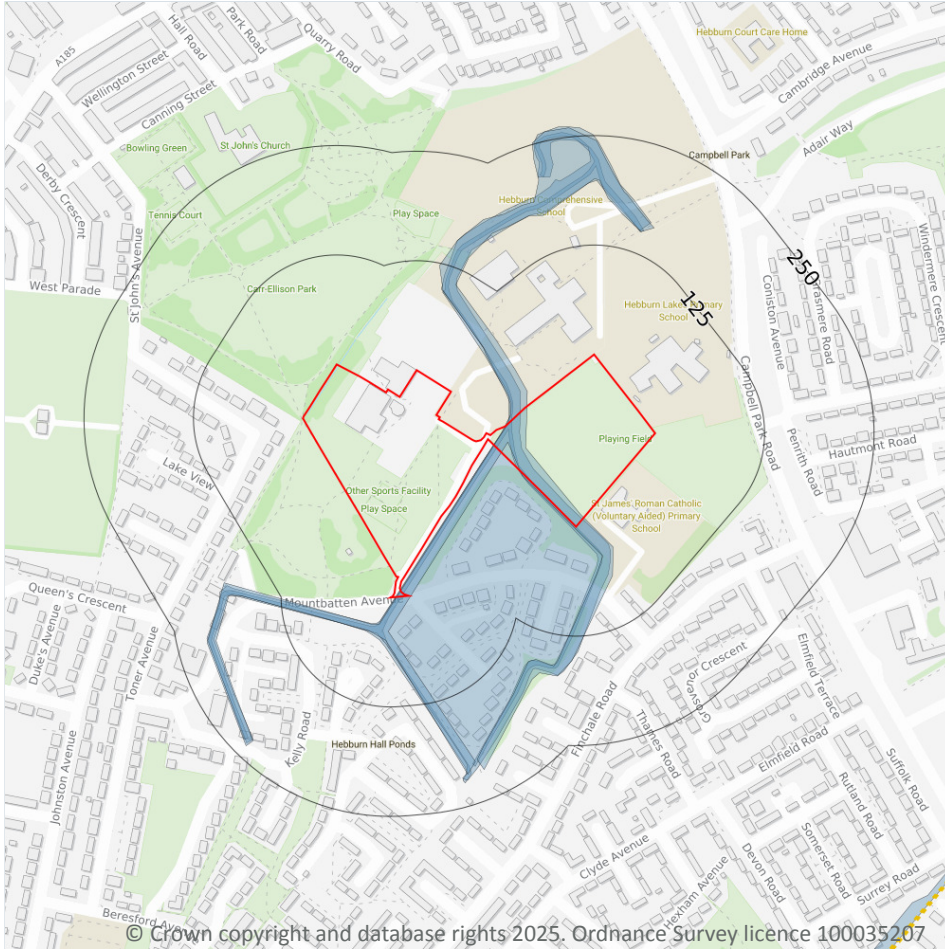
Records within 50m

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)
- 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

2

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 113 >](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1897	2500
On site	Railway Sidings	1895	10560

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.



22.7 Railways

Records within 250m**0**

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 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.

22.9 HS2

Records within 500m**0**

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.



APPENDIX 3

Coal Authority Report



The Coal
Authority

CON29M

coal mining report

CLEGWELL & HARTLEYBURN COMMUNITY HUB, MOUNT BATTEN AVENUE,
HEBBURN, TYNE & WEAR, NE31 2QP



Known or potential coal mining risks

Past underground coal mining	Page 4
Future underground coal mining	Page 4



Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit
www.groundstability.com



Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Your reference: **G25318**
Our reference: **51003529715001**
Date: **7 October 2025**

Client name:
GEOINVESTIGATE

If you require any further assistance
please contact our experts on:
0345 762 6848
groundstability@coal.gov.uk

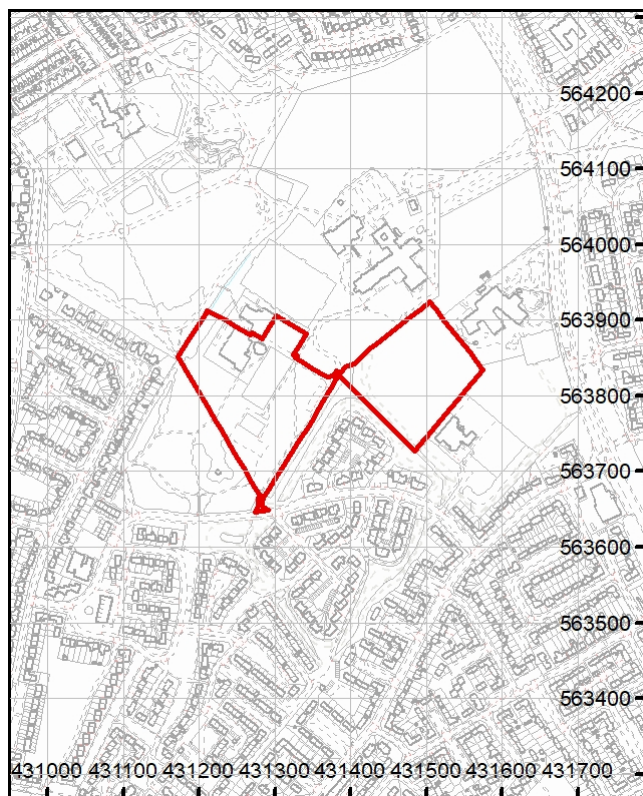


The Law
Society

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is
on the coalfield



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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.



Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Professional opinion



Future development

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

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

If you are looking to develop, or undertake works, within a coal mining development high risk area your Local Authority planning department may require a Coal Mining Risk Assessment to be undertaken by a qualified mining geologist or engineer. Should you require any additional information then please contact the Coal Authority on **0345 762 6848** or email **cmra@coal.gov.uk**.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

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1 Past underground coal mining

The property is in a surface area that could be affected by underground mining in 4 seams of coal at 220m to 400m depth, and last worked in 1947.

Any movement in the ground due to coal mining activity associated with these workings should have stopped by now.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

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

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 Coal mining subsidence

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

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

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

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

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

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

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 Payments to owners of former copyhold land

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

Statutory cover



Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.

www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form



Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call **0800 288 4242**. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary



Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

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

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings