Environmental
Geotechnical
Specialists

PHASE 1 ENVIRONMENTAL
DESK STUDY
REPORT

job number	C4780/24/E/7301
date	05.02.2025
site address	4 Bankfield Lane, Huddersfield, West Yorkshire, HD5 0JG
written by	S.Hale
checked by	I. Sakoor
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Report on a Phase One Desk Study

Location:	4 Bankfield Lane Huddersfield, West Yorkshire, HD5 0JG
For:	Kirkheaton Engineering Co Ltd
Report No.	C4780/24/E/7301 Report date: February 2025

For and on behalf of **Rogers Geotechnical Services Ltd**

REDACTED	REDACTED
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1. Introduction

The site comprises an existing brownfield site consisting of an engineering works located on Bankfield Lane, Huddersfield, West Yorkshire, HD5 0JG. The site is approximately 0.21 hectares in size and its National Grid reference is centred around 417992 41969.

It is understood that the development proposals currently comprise the construction of a new residential development with presumed garden areas and car parking. In order to assist with this decision-making process, and any planning and construction aspects of the development, a phase one environmental desk study has been commissioned and is the subject of this report.

In accordance with issued guidance, a site walkover was conducted on the 24th January 2025 and the following observations were made:

General site description/current site use
The site comprises an engineering works with associated workshops.

Site boundaries/access
The site is accessible off Bankfield Lane.

Topography
The boundaries of the site lie flat.

Surface cover of site
Hardstanding covers the majority of the site along with some areas of rough ground.

Visible evidence of contamination/ contaminative sources
Some of the buildings present to the site appear to be clad in asbestos cement sheeting. There were no other visible signs of contamination present during the time of the walkover, however, it is understood that two oil tanks are present to the rear of the site but these were inaccessible during the walkover.

Presence of vegetation and wildlife
The area to the rear of the buildings was overgrown with vegetation. This will need to be cleared prior to any site investigation should access be required. Vegetation seems to be healthy with no evidence of degradation. There were no obvious signs of invasive flora, fauna, nesting birds, burrowing animals or edible plants observed during the time of the site walkover.

Services
The status of underground services is unknown; however, they are presumed to be present. There were no overhead services present within the site at the time of the walkover.

Site neighbours
Residential housing is present in all directions from the site along with an area of brownfield land which is present directly south.

In order to ensure that the site is fully characterised and to comply with the Environment Act 1995[1], a Phase One Desk Study has been commissioned by Kirkheaton Engineering Co Ltd. The desk study is intended to assess the environmental impact of historical, current and future factors on the development. This report will present the data obtained and provide a conceptual ground model and preliminary risk assessment as well as discussing the scope of any intrusive investigation that may be required. This report does not consider ecological impacts (e.g. bats) or botanical risks (e.g. Japanese Knotweed).

2. Review and Summary of Published Data

As a part of this desk study the following data has been considered.

- Site Plan - Appendix 1
- Historical maps - Appendix 2
- Groundsure Reports - Appendix 3
- Photographs - Appendix 4

The data obtained from the above-mentioned sources has been summarised below[2].

[1]S57 of the Environment Act 1995 inserted the contaminated land regime into the Environmental Protection Act 1990 (Part 2A). The regime **'provides a risk-based approach to the identification and remediation of land where contamination poses an unacceptable risk to human health or the environment'** See http://www.environment-agency.gov.uk/research/planning/40405.aspx. This places a duty on local authorities to inspect their areas for contaminated land and require its remediation using the 'suitable for use' approach. Much of this duty is discharged via the planning regime under the Town and Country Planning Act 1990 as historical land contamination is a 'material planning consideration.' The local authorities are required to secure the removal of unacceptable risks via remediation of the land, to therefore ensure the site is suitable for its new use. This is fulfilled via completion of a Phase One Environmental Desk Study, Phase Two Intrusive Investigation, Phase Three Remediation Strategy and Phase Four Validation Report. Therefore, as a minimum, once a site has been developed it should not be capable of being designated as 'contaminated land' under Part 2A of the Environmental Protection Act 1990, as inserted by the Environment Act 1995 (see also PPS 23 Planning and Pollution Control Section 8)

[2] This report is a summary only and reference must be made in full to the information provided in the Groundsure Report.

2.1 Historical Land Use

Table 1: Historical Land Use[3]

HISTORICAL MAPPING SUMMARY		
Map Dates	**On site**	**Within 250m**
1854 – 1855	The site appears to be an empty field with the exception of the most northern corner where a small structure is present.	Sandstone Quarry – 100m E
1888 – 1893	A number of small structures are now present to the northeast corner of the site.	The Sandstone Quarry located 100m E appears to have been infilled and residential housing built over top. Cloth Mill – 60m S Mill Pond – 60m S Quarries – 140m SE & 190m SE
1904 – 1907	Another small structure is now present towards the centre of the site.	The Quarries located 140m SE & 190m SE have now been infilled.
1918 – 1919	Further expansion of the structures is noted.	The surrounding land use remains largely unchanged.
1930 – 1932	More small structures are now present to the southwest corner. The structures towards the centre of the site have been demolished and a larger building constructed.	The Cloth Mill located 60m S has been extended to 40m SE of the site.
1938 – 1956	The site remains unchanged.	The surrounding land use remains largely unchanged.
1961 – 1965	The majority of the structures present to the site have been demolished and new ones built in their place. A large structure is present to the centre of the site and labelled as a 'Garage'.	The surrounding land use remains largely unchanged.
1968 – 1971	The Garage on site is now labelled as an 'Engineering Works'.	Electrical Sub Stations – 70m N & 100m SW
1974 – 1975	The site remains unchanged.	The surrounding land use remains largely unchanged.
1984	The site remains unchanged.	Works – 10m S Allotment Gardens – 120m E Pumping Station – 150m NE
1992 – 2010	The site remains unchanged.	The surrounding land use remains largely unchanged.
2025	The site remains unchanged.	The Works, Mill and Mill Pond located 10m S, 60m S and 60m S respectively have all been demolished.

NB. All distances given are approximate only.

2.2 Published Geology and Geological Hazards

Table 2: Geological Data for the Site

BGS MAPPING DATA			
Strata Type	**Strata Name[4]**	**Previous Name[4]**	**Description[5]**
Made Ground/Fill	N/A	N/A	Not indicated on site although previous construction may have resulted in the presence of made ground.
Superficial Geology	N/A	N/A	Not indicated to underlie the site.
Solid Geology	Pennine Lower Coal Measures Formation	Grey Measures of Yorkshire and Nottingham	Interbedded grey mudstone, siltstone and pale grey sandstone, commonly with mudstones containing marine fossils in the lower part, and more numerous and thicker coal seams in the upper part.
GEOLOGICAL FEATURES			

[3] See Appendix 3
[4] Sources: British Geological Survey (NERC) Map Sheets 77; Huddersfield; Solid and Drift Edition, and GeoIndex Onshore Viewer [*online resource from www.bgs.ac.uk*]
[5] Sources: British Geological Survey (NERC) Lexicon of Named Rock Units [*online resource from www.bgs.ac.uk*]

Type	Location	Features	Comments
Mining Activity	On site	Coal mining	The study site is located within the specified search distance of an identified mining area.
		Non-coal Mining	Localised small-scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered.
Linear Features	111m SE	Fault	Normal fault, displacement unknown. This fault is not anticipated to affect the site.
	206m E	Coal Seam	Better Bed Coal seam
Landslip Deposits	No data	No data	No data.

BGS BOREHOLE DATA			
Reference[6]	**Location**	**Strata Description**	**Depth**
SE11NE167	440m N	TOPSOIL Silty SOIL Firm CLAY SHALE	0.20m 0.90m 1.50m 2.60m
SE11NE314	470m SW	MADE GROUND Topsoil Brown, silty SAND SANDSTONE	0.65m 0.90m 1.10m 2.50m

NATURAL GROUND SUBSIDENCE & HAZARDS[7]	
Type	**Risk Rating**
Potential for shrinking or swelling clay ground stability	Very Low.
Potential for running sand ground stability	Negligible.
Potential for compressible ground stability	Negligible.
Potential for collapsible ground stability hazards	Very Low.
Potential for landslide ground stability	Very Low.
Potential for ground dissolution stability	Negligible.
Radon	The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level. No radon protective measures are necessary.

[6] https://mapapps2.bgs.ac.uk/geoindex/home.html
[7] See Groundsure report

2.3 Construction Issues

2.3.1 Foundation Construction

On the basis of the prevailing geology and assuming that there are no areas of significantly filled ground, it is anticipated that shallow strip or spread foundations could be utilised at this site. It should be appreciated that an intrusive investigation will be required to validate this opinion. Moreover, it is possible that undifferentiated strata within the Pennine Lower Coal Measures Formation may include very fine-grained rocks which are likely to have weathered to cohesive soils at or near the surface. Such soils could be sensitive to soil moisture variations and thus be susceptible to desiccation as result of tree root action. In light of this, it is possible that footings within the zone of influence of trees (existing or previously removed), may need to founded at extended depths in excess of 1m.

2.3.2 Site Won Materials

Where sandstone outcrops, it is possible that the resulting soil may provide a suitable bulk granular fill and may prove suitable for re-compaction.

Should any residual mudstone be encountered at shallow depth over much of the site, this material is likely to be relatively difficult to re-engineer as a construction material. Therefore, depending on the results of laboratory testing, it may possible to modify/stabilise the soil using lime and/or cement to form a suitable sub-base replacement for pavements and hard standings.

2.3.3 Disposal of Site Materials

If made ground is present, then contamination/WAC testing will be required to establish the nature of the underlying soil before disposal to a licensed landfill site. However, it is anticipated that the naturally occurring soils would not be significantly contaminated, thus would probably be accepted by a waste disposal site catering for inert material.

2.4 Mining and Natural Cavities

2.4.1 Coal Mining

The Groundsure Report states that the site is within an area that may be affected by coal mining. It should be appreciated that a previous Phase 1 Desk Study carried out for this site has been provided by the client. This report was completed by Michael D Joyce Associates LLP in February 2013 and was numbered 3365. The report included a Coal Mining report provided by the Coal Authority which stated that the property is not within the zone of likely physical influence on the surface from past underground workings.

2.4.2 Non-Coal Mining

Localised small-scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered.

2.5 Waste Management and Gas Monitoring

Table 4: Landfill Data and Artificial Ground, Recorded and Anticipated			
ENVIRONMENT AGENCY, LOCAL AUTHORITY, BGS & HISTORIC LANDFILLS			
Waste Type	**Location**	**Comments**	**Monitoring Requirement**
Active Landfill	Within 250m	None recorded within 250m	-
Historic Landfill	Within 250m	None recorded within 250m	-
Historic waste sites	Within 250m	None recorded within 250m	-
Licenced waste sites	Within 250m	None recorded within 250m	-
Waste Exemptions	6m – 34m NE	Treating waste exemption – Sorting and de-naturing of controlled drugs for disposal.	N
MADE GROUND & INFILLED GROUNDWORKINGS			
Description	**Location**	**Comments**	**Monitoring Requirement**
Records of Potentially Infilled Features	100m E	Sandstone Quarry (1854 – 1855)	Y
	140m SE & 190m SE	Quarries (1888 – 1893)	Y
	120m E	Allotment Gardens (1984)	N

2.6 Hydrogeology, Hydrology

Table 5: Ground/Controlled Water Sensitivity and Flooding		
ENVIRONMENT AGENCY AQUIFER DESIGNATION[8]		
Strata	**Designation**	**Description**
Solid Geology 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.
GROUNDWATER SENSITIVITY[9]		
Description	**Location**	**Details**
Source Protection Zone	Within 250m	None recorded within 250m.
Abstraction Licences	32m S	Status: Historical. Direct Source: Groundwaters.
	130m S	Status: Historical. Direct Source: Groundwaters.
Records of Part A(2) and Part B Activities and Enforcements	Within 250m	None recorded within 250m.

[8] See Appendix 2
[9] See Appendix 2

Records of Licensed Discharge Consents	Within 250m	None recorded within 250m.
High Soil Leaching Potential	On Site	Leaching class: High
CONTROLLED WATERS[10]		
Description	**Location**	**Details**
River Network Entries	Within 250m	None recorded within 250m.
Surface Water Features	Within 250m	None recorded within 250m.

POLLUTION INCIDENTS[11]			
Pollutant	**Receptor**	**Location**	**Date**
-	-	None recorded within 250m.	-

ENVIRONMENT AGENCY FLOOD RISK[12]		
Description	**Location**	**Details**
Zone 2	Within 250m	The site is not situated within a Zone 2 flood plain.
Zone 3	Within 250m	The site is not situated within a Zone 3 flood plain.
Flood Defences	Within 250m	None recorded within 250m.
Groundwater Flooding Area	On site	Negligible potential for groundwater flooding to occur.

2.7 Sensitive Land Use

Table 6: Sensitive Land Uses within 250m

REGISTERED SENSITIVE LAND USES [13]		
Description	**Location**	**Details**
Nitrate Vulnerable Zone	Within 250m	None recorded within 250m.
Green Belt Land	84m W	South and West Yorkshire Green Belt.

2.8 Industrial Land Use and Potential Sources of Contamination

In order for a conceptual site model and preliminary risk assessment to be completed the historical maps and Groundsure data requires analysis to identify any past or present activities on the site and in the area that may have the potential to cause contamination on the site. Guidance has been issued by the Environment Agency, NHBC and Chartered Institute of Environmental Health.[14] Within this document, Annex 3 provides examples of important contaminants that are associated with individual uses of land. This data assists in the formulation of any chemical testing regime.

Those that we consider potentially contaminative according to the guidance are given below:

[10] See Appendix 2
[11] See Appendix 2
[12] See Appendix 2
[13] See Appendix 2
[14] Guidance for the Safe Development of Housing on Land Affected by Contamination, R&D Publication 66: 2008 Volume 1 and 2.

Table 7: Potentially Contaminative Sources		
HISTORICAL		
Land Use	**Location**	**Classification**
Historical construction Mill Pond Sandstone Quarry Quarries	On site 60m S 100m E 140m SE & 190m SE	Artificial/made ground.
Garage (Historical)	On site	Road vehicle fuelling, service and repair: garages and filling stations.
Engineering Works Works Mill Electrical Sub Stations Pumping Station	On site 10m S 60m S 70m N & 100m SW 150m NE	Unspecified works/factories/features.
CURRENT		
Land Use	**Location**	**Classification**
Kirkheaton Engineering	On site	Unspecified works/factories/features.
Walkers Garage G M Walker Ltd	55m N 144m N	Road vehicle fuelling, service and repair: garages and filling stations.
TANKS (Above Ground)		
Land Use	**Location**	**Classification**
Overground Storage Tanks	On site	Bulk storage of crude oil and petroleum products.

3. Preliminary Qualitative Risk Assessment

The potential of contamination hazards on the land has been identified and the risks associated with them are assessed in the following preliminary risk assessment in accordance with industry practice and the 'suitable for use' approach. This has been conducted using the source-pathway-receptor approach. This method dictates that there must be a risk contaminant produced at a 'source' in sufficient concentration to cause harm and there must be a 'pathway' for the contaminant to reach an identifiable 'receptor' for the linkage to be proved and a contamination hazard to be considered present. Not all substances are contaminants and not all contaminants are considered to be a risk. Indeed, DEFRA and The Environment Agency state that **'a contaminant is a substance which has the potential to cause harm, while a risk itself is considered to exist if such a substance is present in sufficient concentration to cause harm and a pathway exists for a receptor to be exposed to the substance.**'

R&D Publication 66: 2008 states that the groups at risk of harm (receptors) can be identified by the following categorisation:

1. Humans: site personnel, end users, visitors and adjacent land users.
2. The water environment – receptors: groundwater, surface water, coastal waters and artificial drainage.
3. Ecosystems: plants and animals.
4. Construction/building materials/services

In order to complete a conceptual site model and therefore a preliminary risk assessment, an appraisal of the sources of contamination, potential and actual, on and in the area of the site has therefore been completed with reference to this pollution linkage.[15]

3.1 Conceptual Ground Model & Preliminary Qualitative Risk Assessment

It is understood that the development proposals currently comprise the construction of a new residential development with presumed garden areas and car parking. In view of the sensitivity of the end users it is considered that the soil screening values (SSVs) for a residential with plant uptake end use should be employed.

The preliminary risk assessment has been evaluated with reference to the following ratings and definitions:

N/A - A source-pathway-receptor linkage is not considered to exist and therefore a risk assessment is not required.

Low - A pollution linkage is unlikely and/or the likelihood of harm occurring is low and of minor consequence.

Moderate - The linkage exists but further field or laboratory data is required to confirm that the contaminant has reached the receptor and the levels of contaminant are harmful.

High - The linkage exists and the available data indicates that significant harm may be caused and remedial action could be necessary.

[15] This assessment has been based on the information as to the proposed development that has been provided by the client. If the plans should change, the assessment should be re-evaluated.

Table 8: Conceptual Site Model and Preliminary Qualitative Risk Assessment				
CONCEPTUAL SITE MODEL			**PRELIMINARY RISK ASSESSMENT**	
Pathways	**Receptor**	**Linkage Present?**	**Risk Rating**	**Notes**
Direct contact/dermal absorption/soil ingestion	Operative	Yes – operatives are likely to come in contact with the soil.	Moderate	There are potential on and off-site sources of contamination that may have caused contamination of the site. Any on site sources of contamination could migrate to neighbouring properties. Further testing required to reach a firm conclusion.
	End User	Yes – end users are likely to come in contact with the soil.	Moderate	
	Neighbours	Yes – possible source on site and immediate neighbours are present.	Moderate	
Inhalation of Dust/Vapours	Operative	Yes – contact with soil likely during works and vapours may accumulate in enclosed spaces.	Moderate	There are potential on and off-site sources of contamination that may have caused contamination of the site. Any on site sources of contamination could migrate to neighbouring properties. Construction activities may create dust on and off site, which, if contaminated, could adversely affect operatives, end users and neighbours. In the event that harmful vapours are present they may accumulate in enclosed spaces, affecting operatives, end users and neighbours. Further testing required to reach a firm conclusion.
	End User	Yes – end users may produce dust and vapours may accumulate in enclosed spaces.	Moderate	
	Neighbours	Yes – neighbouring properties present and possible inhalation of dust during the works.	Moderate	
Ingestion of fruit/vegetables and/or waters	Operative	No – no edible plants or contained water sources in the area of the proposed new works.	N/A	There are potential on and off-site sources of contamination that may have caused contamination of the site. Further testing required to reach a firm conclusion.
	End User	Yes – soft landscaping proposed as part of the new development.	Moderate	
	Neighbours	Yes – residential dwellings present within 250m of the proposed development.	Moderate	

Migration of hazardous gases via permeable strata	Operative	Yes – possible off-site sources and potential source on site associated with historical construction.	Moderate	Possible source on site and within 250m. A programme of monitoring is recommended but is suggested to be limited to 4 readings over one month in the first instance. If significant made ground considered capable of producing harmful gases is revealed during the investigation works, the monitoring regime may require reassessment to consider a higher potential risk.
	End User		Moderate	
	Neighbours	Yes – possible source on site due to historical construction.	Low to Moderate	It is unlikely that significant thicknesses of made ground will have been brought on to site for previous construction. Therefore, a generative source has unlikely been produced on site. This should be re-assessed during any intrusive works should this be proven to the contrary.
Spillage/loss/run off direct to receiving water	Controlled Waters	No – there are no reported controlled waters within 250m of the site.	N/A	There are potential on and off-site sources of contamination that may have caused contamination of the site. A secondary A aquifer underlies the site. Permeability of underlying geology should be assessed. Further testing required to reach a firm conclusion.
Migration via permeable unsaturated strata	Controlled Waters	Yes – possible source on site and Secondary A aquifer beneath the site.	Moderate	
Run off via drainage/sewers etc	Controlled Waters	Yes – possible source on site.	Moderate	
Direct contact with contaminated soils	Plants	Yes – some soft landscaping areas may be present as part of the proposed development.	Moderate	There are potential on and off-site sources of contamination that may have caused contamination of the site. Any on site sources of contamination could migrate to neighbouring properties. Further testing required to reach a firm conclusion.
Uptake via root system			Moderate	
Direct contact with contaminated soils/	Building Materials	Yes – possible source on and off site and foundation and service installation materials may be affected by the site soil.	Moderate	There are potential on and off-site sources of contamination that may have caused contamination of the site. Further testing required to reach a firm conclusion.
Direct contact with contaminated groundwater				

Migration of mine gas via permeable strata	Operative End User	Yes – in an area affected by coal mining, however, the Coal Authority report provided in the previous Phase 1 numbered 3365 states that the site is not within the one of likely physical influence on the surface from past underground workings.	Low	No further action required.
Exposure to Radon	Operative End User	Yes – site currently indicated to be present in a low risk radon affected area[16].	Low	Between 1% and 3% of properties are affected. The publication BR211 states that no protection measures are necessary.
Mining Instability	End User	Yes – in an area affected by coal mining, however, the Coal Authority report provided in the previous Phase 1 numbered 3365 states that the site is not within the one of likely physical influence on the surface from past underground workings.	Low	No further action required.
Unexploded Ordinance (UXO) Risk	Operative	Yes – the Zetica[17] online maps indicate that the site is at low risk from UXO.	Low	Unlikely to be affected by UXO.

Notes:

1. The above data and table is a qualitative assessment of the probable risks identified at this site, based on the information made available to us from the client, third party professional data and walkover survey.

2. Should any additional or new data come to light, the risk assessment should be revisited and any necessary changes made to any recommendations resulting from this study.

3. Where further testing is recommended as part of the risk assessment, this is in order to provide a quantitative assessment of any contamination issues. It should at all times be considered that uncertainties may remain, and therefore any testing regime and ground investigation philosophy should be ready to accommodate any necessary alterations should any data come to light or it become evident that it has not been previously considered.

[16] Radon interactive map [*online resource https://www.ukradon.org/radonmaps/*] It should be appreciated that radon maps are subject to change and are updated regularly.
[17] Pre-desk study assessment [*online resource from www.zeticauxo.com*].

4. Intrusive Investigation

4.1 Site Investigation Philosophy

The information from the Phase 1 Desk Study shows there are potential sources of contamination on the site and in the surrounding area. In view of the above, any intrusive investigation should be undertaken in accordance with the sampling strategies given in BS10175: 2011 +A2:2017 and CLR4:1994. These two sampling strategies may be classified as:

- Non-Targeted – using a defined sampling pattern (BS10175)
- Targeted – based on prior knowledge and professional judgement (CLR4)

These sampling strategies are considered in more detail below. However, it is emphasised that they can be used individually or in combination depending on the depth of site knowledge.

Non-Targeted Sampling

If no obvious 'hot spots' of contamination have been identified on a site, it would be recommended that a stratified random pattern of sampling points be considered. This work should be undertaken with reference to BS10175: 2011 +A2: 2017 *Investigation of potentially contaminated sites – Code of practice*: 7.6, and BS5930 2015 + A1:2020, *Code of practice for ground investigations.*

Targeted Sampling

If a possible 'hot spot' of contamination has been identified on a site, it is recommended that a herringbone pattern of sampling points be considered in the immediate vicinity. If strong evidence of contamination has then been identified, it is recommended that sampling be highly focused to reflect that evidence and the investigator's experience. This work should be undertaken with reference to CLR4, *Sampling Strategies for Contaminated Land, 1994*.

The density of sampling required is defined in BS10175: 2011: +A2: 2017: 7.7.2.2.3, which indicates that an *exploratory* investigation usually requires a lower density sample spacing than does a *main* investigation. The BS goes on to state that *the actual density should depend upon the confidence and robustness required of decisions that will be based on the information obtained. Thus, the area and depth of interest will be related to the contaminants present, the pathways and the receptors. Typical densities of sampling grids can vary from 25m to 50m centres for exploratory investigations, and 10m to 25m centres for main investigations.*

4.2 Site Specific Investigation

In view of the information provided above it is considered that an investigation of the site should include the following main elements.

4.2.1 Contamination Assessment

It may be appreciated that BS 10175 clause 7.7.2.2.3 suggests that the number of sampling points at the site should be based on a minimum of three testing locations or the size of the site with respect to the appropriate grid spacing, whichever the greater. On the basis of the site area being 0.21ha, the number of sampling points at the site should be considered with respect to the table below.

Table 9: Summary of Sampling Strategy

NUMBER OF SAMPLING POINTS					
	Soil	**Water**	**Asbestos**	**Standpipes**	**Standpipe Readings**
Exploratory Investigation 50m x 50m grid	3	-	3	3	A minimum of 4 readings over 1 month would be required as per risk assessment, however any regime must take into account the guidance detailed below.
Target Areas	Target areas for any investigation could include the locations of any proposed soft landscaped areas and the area around the reported oil tanks present to the rear of the engineering works.				

Chemical testing should be undertaken on the above grid spacing and the following standard testing regime should be undertaken:

- **Metals** – Cd, Cr, Cu, Hg, Ni, Pb, Zn, V.
- **Semi Metals and Non-Metals** – As, Se, Free Cyanide and Phenols.
- **Hydrocarbons –** Polycyclic aromatic hydrocarbons (PAH EPA16), Total petroleum hydrocarbons (TPH CWG).
- **Volatile Organic Compounds and Semi-Volatile Organic Compounds**
- **Others** – pH, Organic Content.
- **Asbestos**

Sampling Method

Investigation should include the installation of three gas monitoring standpipes for subsequent monitoring. Furthermore, soils should be obtained for chemical sampling. The sampling strategy should employ the non-targeted strategy given above in the first instance, i.e. at least three sampling points, if it is anticipated that made ground is significant across the site. However, if the made ground at the site is thought to be localised to specific areas, then the targeted strategy should be used.

It should be possible to carry out the above work with a windowless sampling drilling rig, however, it may be more pragmatic to employ hand-held digging tools for a targeted strategy.

Underground Storage Tanks (UST's)

The historical mapping and data suggest that the site has been used as a garage. It is therefore possible that buried tanks are present on the site, that are not identified in the Groundsure data. These records are often maintained by the Local Authority Petroleum Officer, who will release them on request, possibly subject to a fee. It is recommended that these records are requested prior to any intrusive site investigation works so that boreholes and chemical tests can be targeted accordingly.

Gas Monitoring

The final gas monitoring regime should be undertaken in accordance with Table 4.2 of CIRIA C665: 2007: *Assessing risks posed by hazardous ground gasses to buildings.* In that document guidance for the frequency of monitoring is provided on tables 5.5a and 5.5b *Typical/idealised frequency and period of monitoring* on page 60. For convenience, these tables have been combined and reproduced below.

Table 10: Typical/idealised Frequency and Period of Monitoring.

Sensitivity of development	Generation potential of source				
	Very low	Low	Moderate	High	Very High
Low (commercial)	4/1	6/2	6/3	12/6	12/12
Moderate (flats)	6/2	6/3	9/6	12/12	24/24
High (residential + gardens)	**6/3**	**9/6**	**12/6**	**24/12**	**24/24**

Notes:

a) The first number is the minimum number of readings and the second number is the minimum period in months, for example 4/1 – four sets of readings over 1 month.

b) At least two sets of readings must be at low and falling atmospheric pressure (but not restricted to periods below 1000mb) known as worst case conditions.

c) The frequency and period stated are considered to represent typical minimum requirements. Depending on specific circumstances fewer or additional readings may be required (e.g. any such variation subject to site specific justification). The NHBC guidance is also recommending these periods/frequencies of monitoring.

d) Historical data can be used as part of the data set.

e) Not all sites will require gas monitoring. However, this would need to be confirmed with demonstrable evidence.

f) Placing high sensitivity end use on a high hazard site is not normally acceptable unless the source is removed or treated to reduce its gassing potential. Under such circumstances long-term monitoring may not be appropriate or required.

g) This guidance should be read in conjunction with BS 8576:2013 figure 6 which may justify fewer readings in the first instance, where the generation potential is considered to be very low to low. However, this should be undertaken pragmatically, and further readings obtained according to the above table, where a potentially significant source is identified and initial readings suggest that remedial measures are not necessary.

4.2.2 Geotechnical Assessment

In addition to the above contamination assessment which is likely to be required by planning authorities and insurance providers, the following investigation strategy could be considered:

Sampling Method

It is anticipated that a windowless sampling drilling rig will be able to gain sufficient data in regard to the near surface soils. Moreover, such equipment should be able to undertake Standard Penetration Testing (SPT) and/or Dynamic Probing.

Soakaway Design

Should soakaway data be required for drainage design, trialpits could be excavated and infiltration tests conducted. Alternatively, these tests could be undertaken within boreholes.

Geotechnical Testing

An allowance for geotechnical testing of the soils should be included in any ground investigation.

4.2.3 Reporting

The above data will need to be formulated into a formal assessment that should include the following:

- Geotechnical recommendations.
- Contamination assessment.
- Contamination remediation strategy.
- Any recommendations for further work, if required and including validation reports where site remediation is necessary.

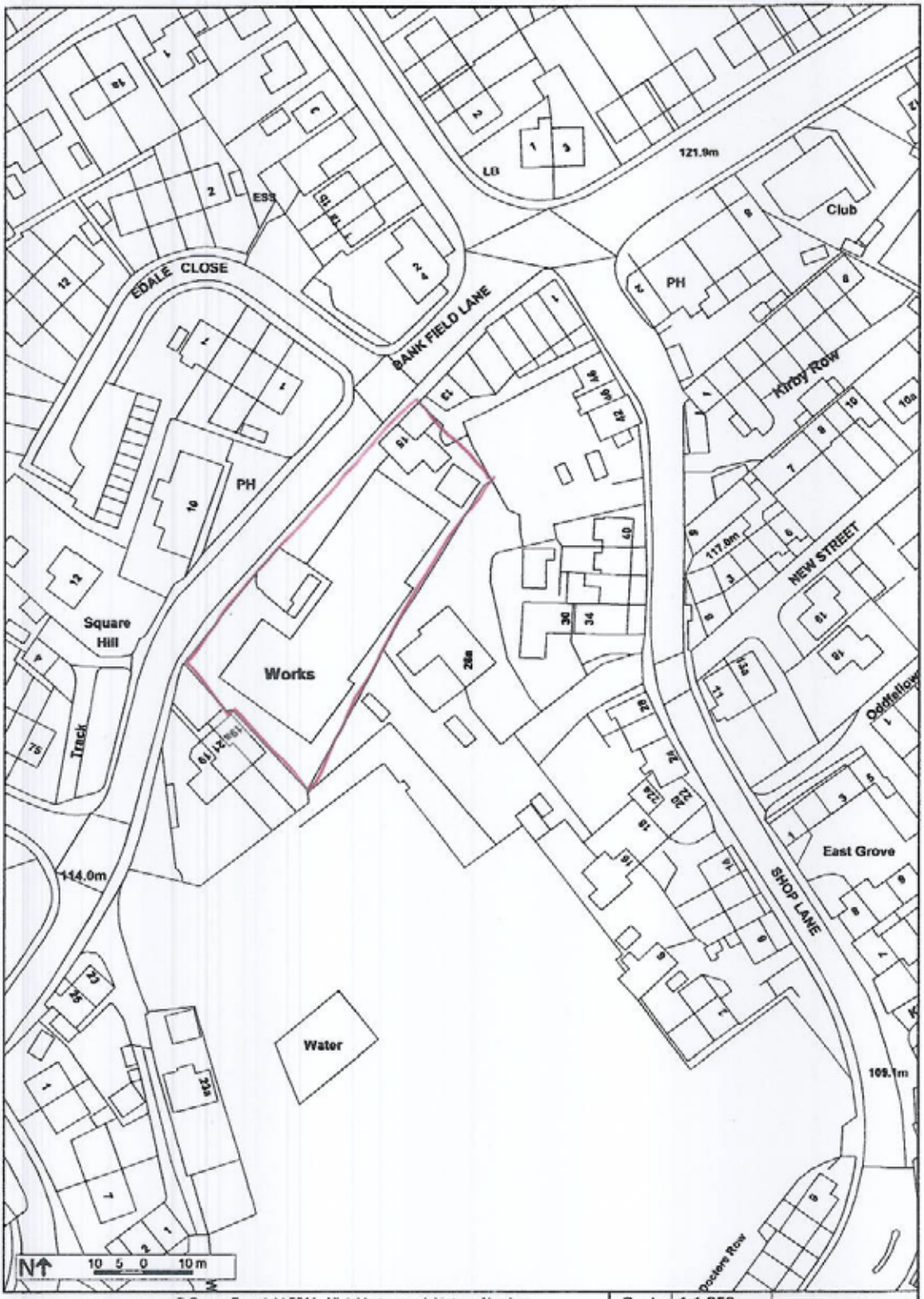
As soon is as practicable, and prior to the above, this Phase 1 report should be forwarded to the relevant authorities, in order to ensure they have sufficient time to review and discuss any issues.

5. References

- British Standards Institution (2015), BS5930 2015 + A1:2020: *Code of practice for site investigations*, B.S.I., London.
- British Standards Institution (2007), Amendment No 1 to BS5930: *Code of practice for ground investigations*, B.S.I., London.
- British Standards Institution (2011) +A2:2017, BS 10175: *Investigation of potentially contaminated sites – Code of Practice,* British Standards Institute.
- British Standards Institution (2013), BS 8576 Guidance on Investigations for Ground Gas – Permanent Gases and Volatile Organic Compounds.
- Department for Environment, Food and Rural Affairs and the Environment Agency, DEFRA R&D Publications, Environment Agency, Bristol.
- CLR 2, 1994, *Guidance on preliminary site inspection of contaminated land*, Volume 1.
- CLR 4, 1994, *Sampling Strategies for contaminated land*.
- R&D Publication 66: 2008 Guidance for the Safe Development of Housing on Land Affected by Contamination.
- CIRIA Report C665 (2007), Assessing risks posed by ground gasses in buildings.
- The Environment Agency: Groundwater source protection.

Appendix 1

Site Plans



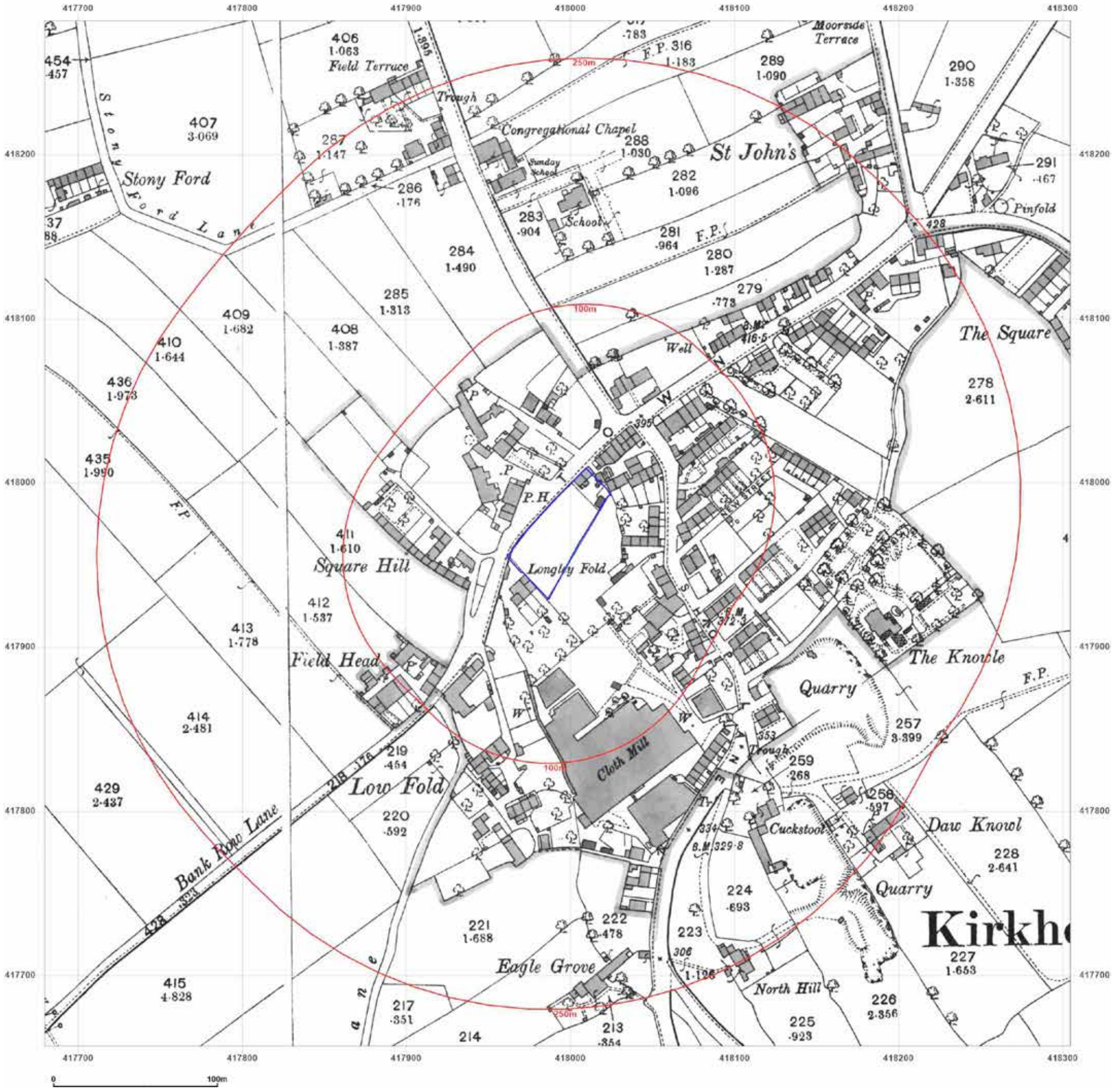
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Date	26/06/12

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Appendix 2

Historical Maps



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Site Details:

4, BANKFIELD LANE,
KIRKHEATON, HUDDERSFIELD,
KIRKLEES, HD5 0JG

Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: County Series
Map date: **1893**
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Printed at: 1:2,500

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Revised 1893
Edition N/A
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Levelled N/A

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Revised 1893
Edition N/A
Copyright N/A
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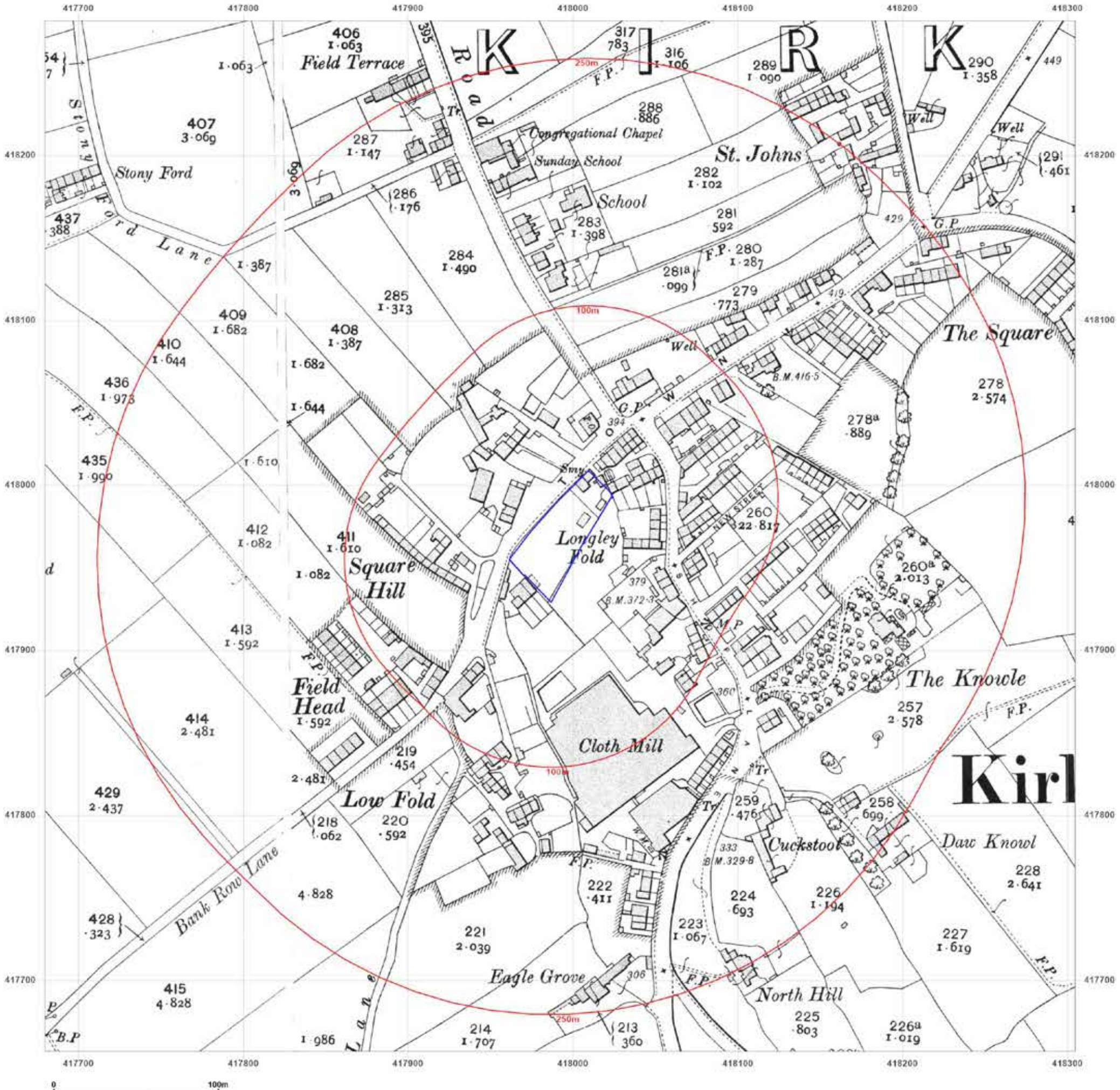
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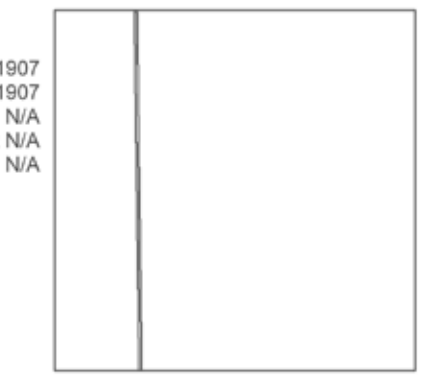
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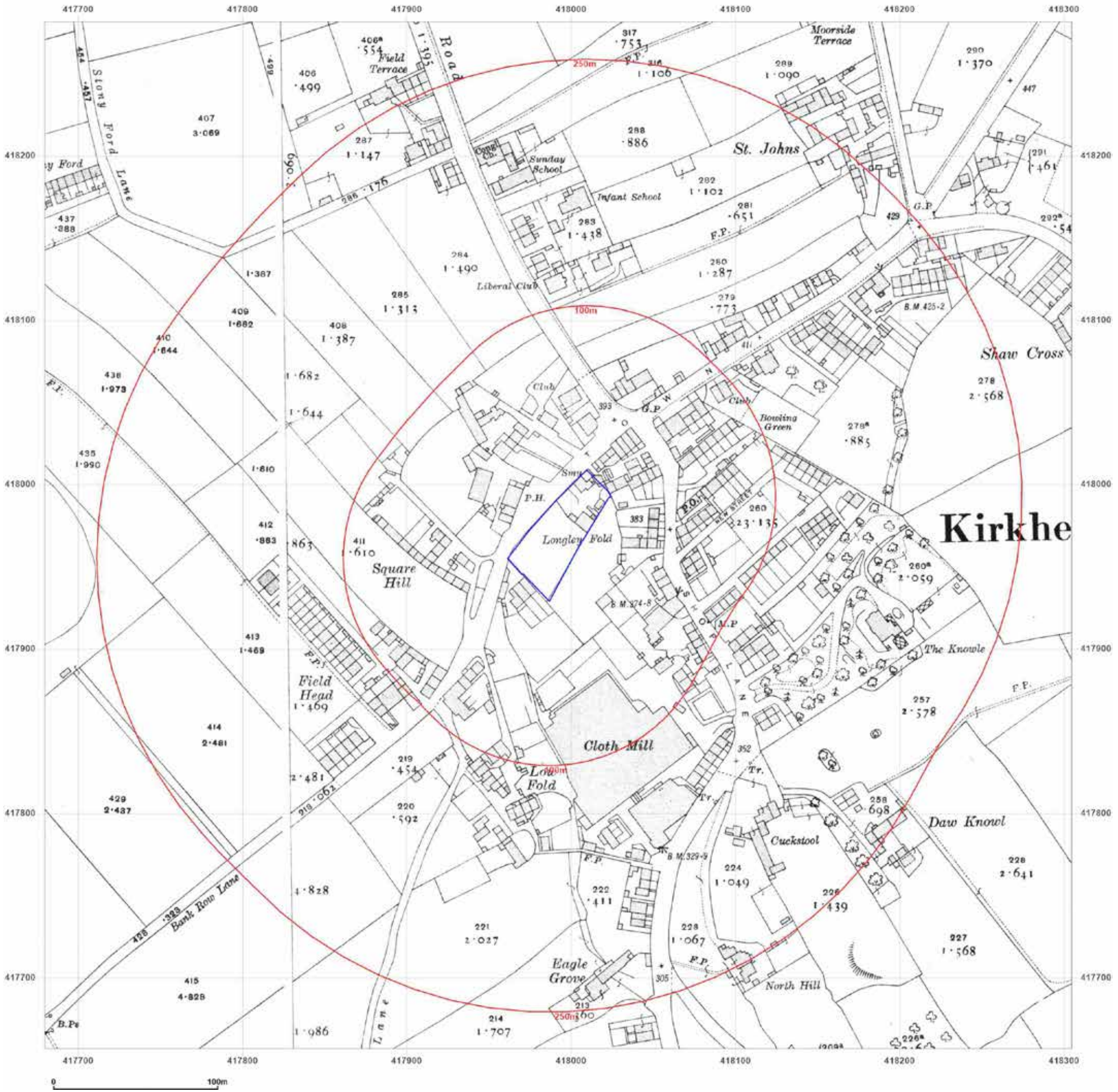
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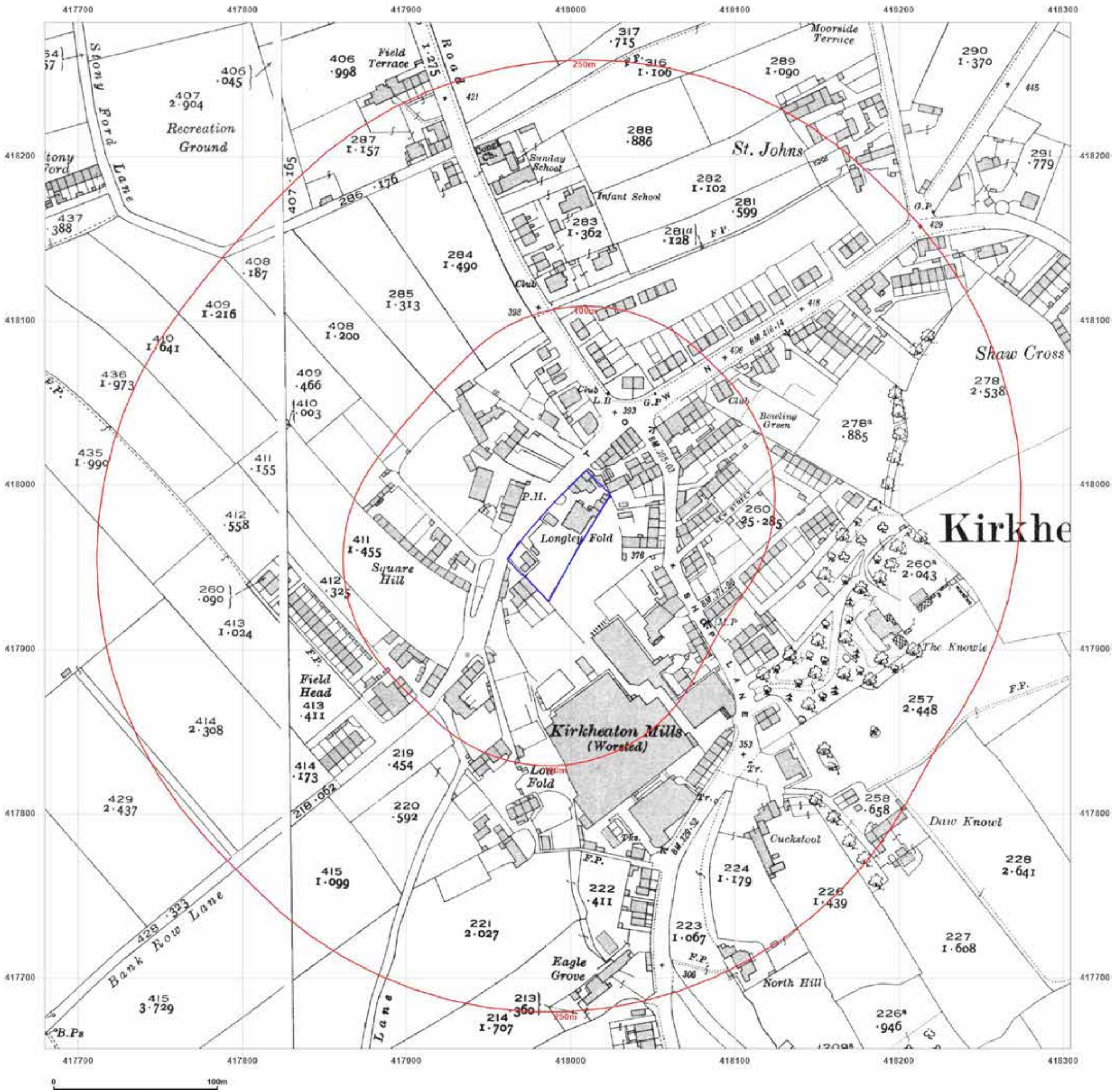
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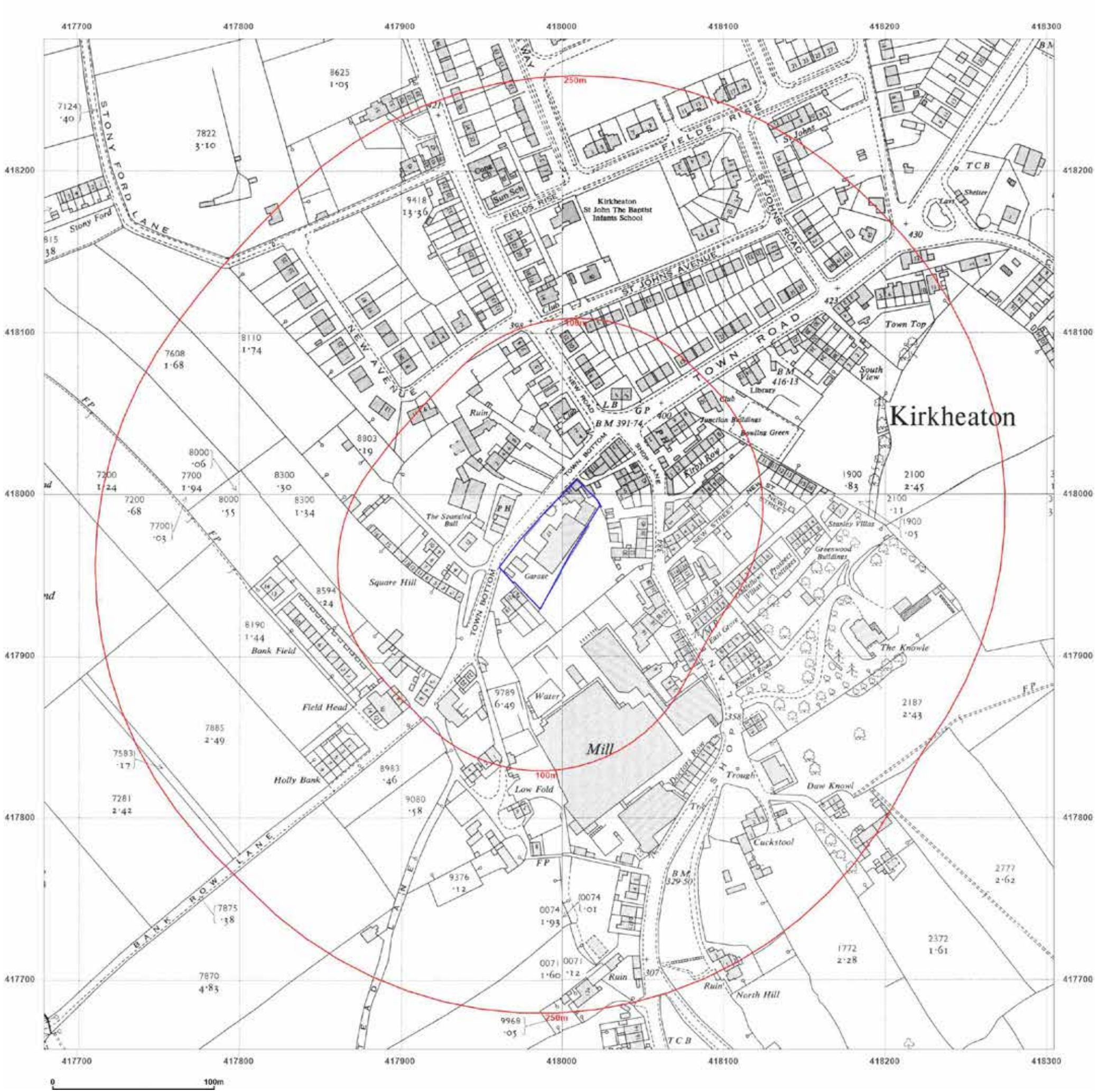
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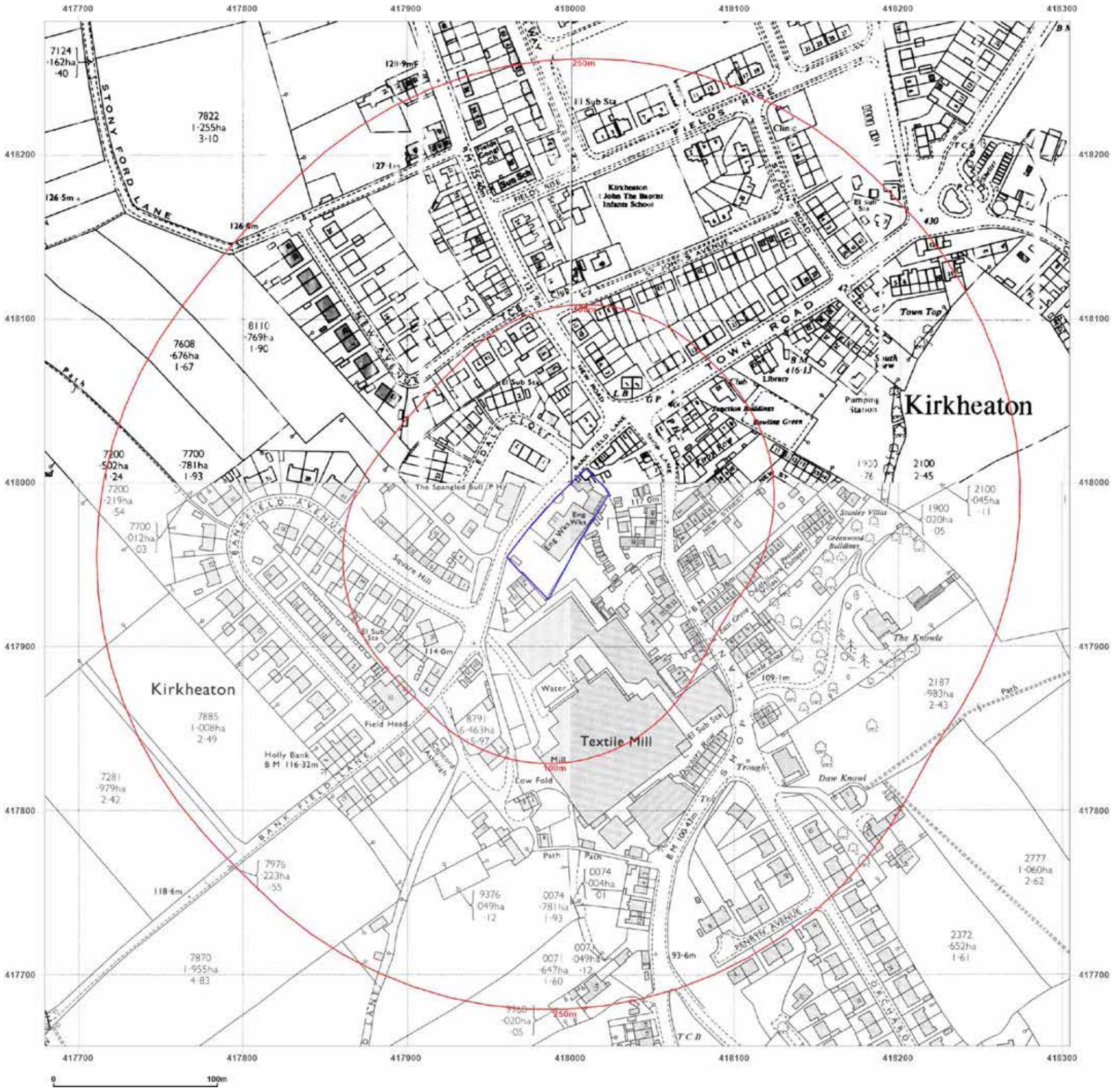
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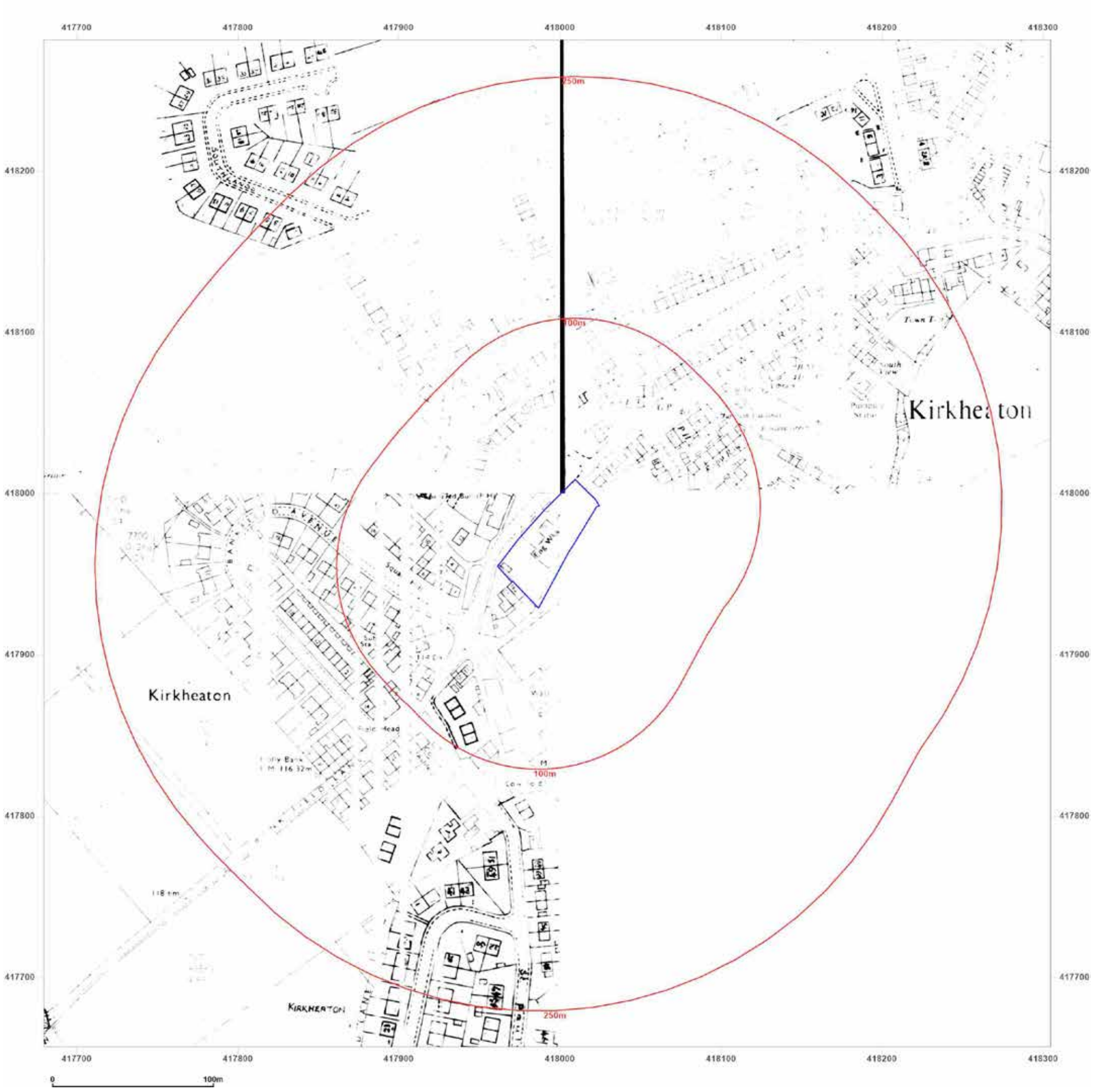
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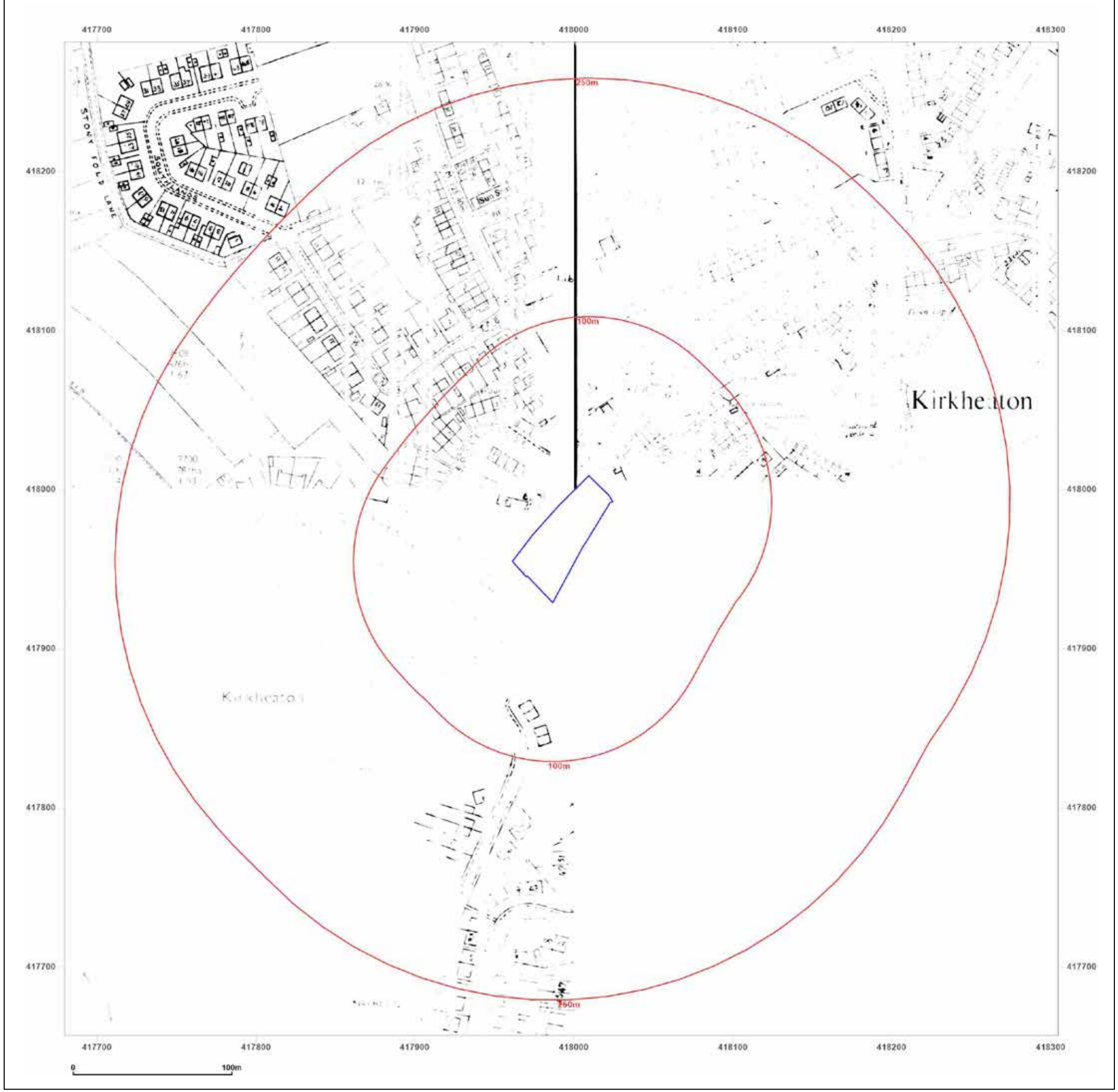
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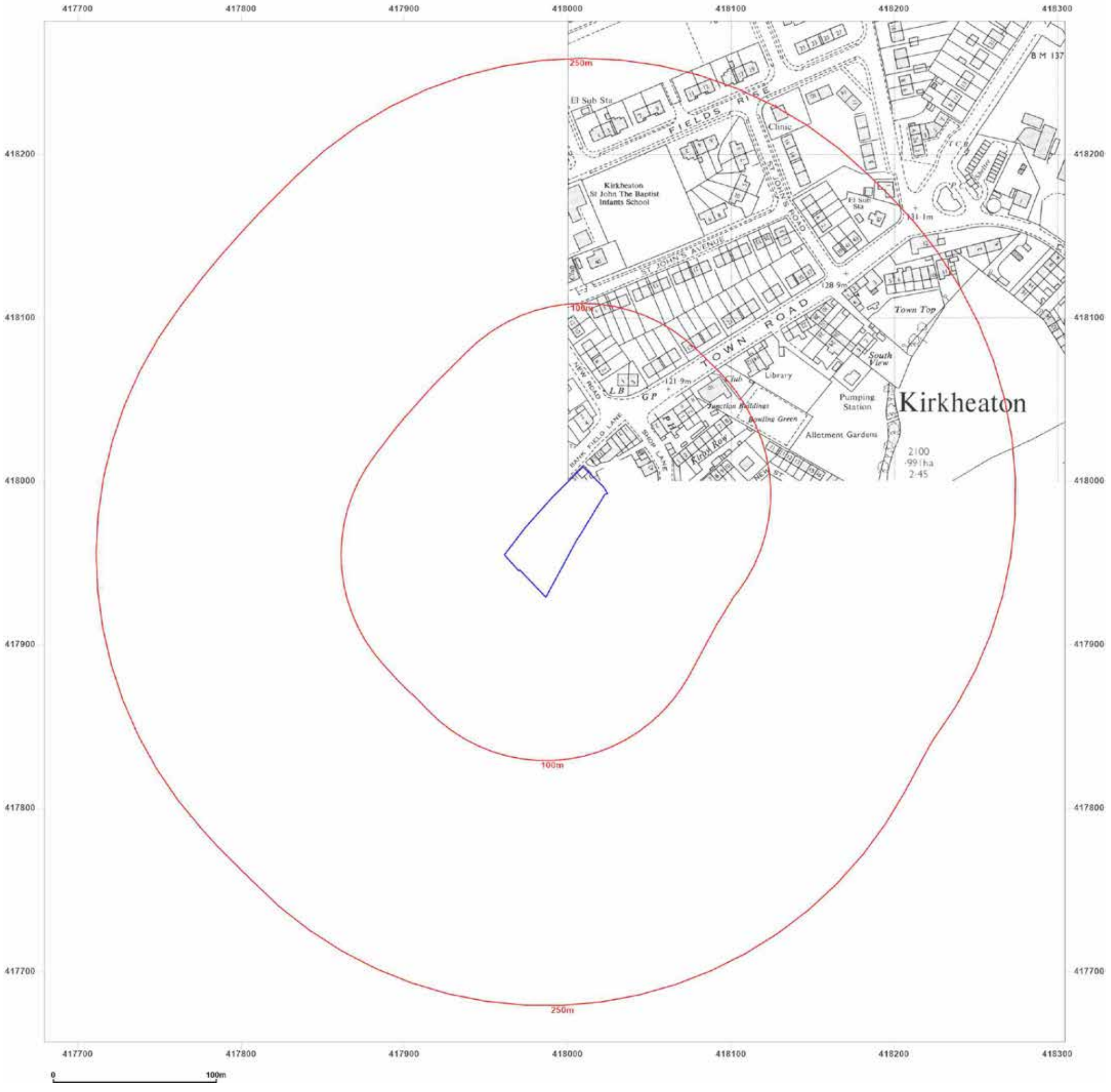
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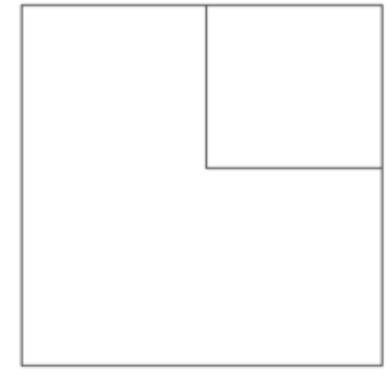
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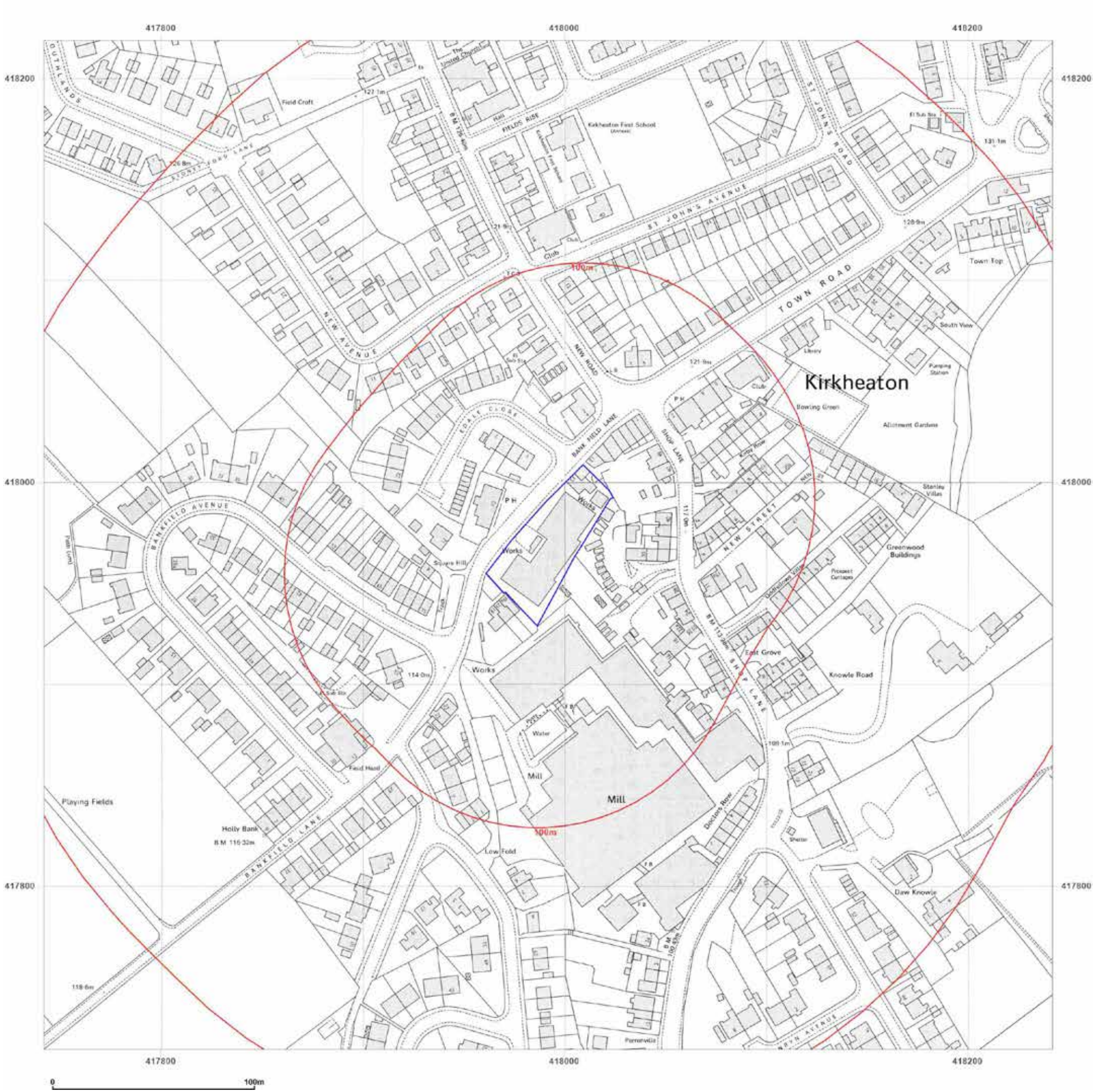
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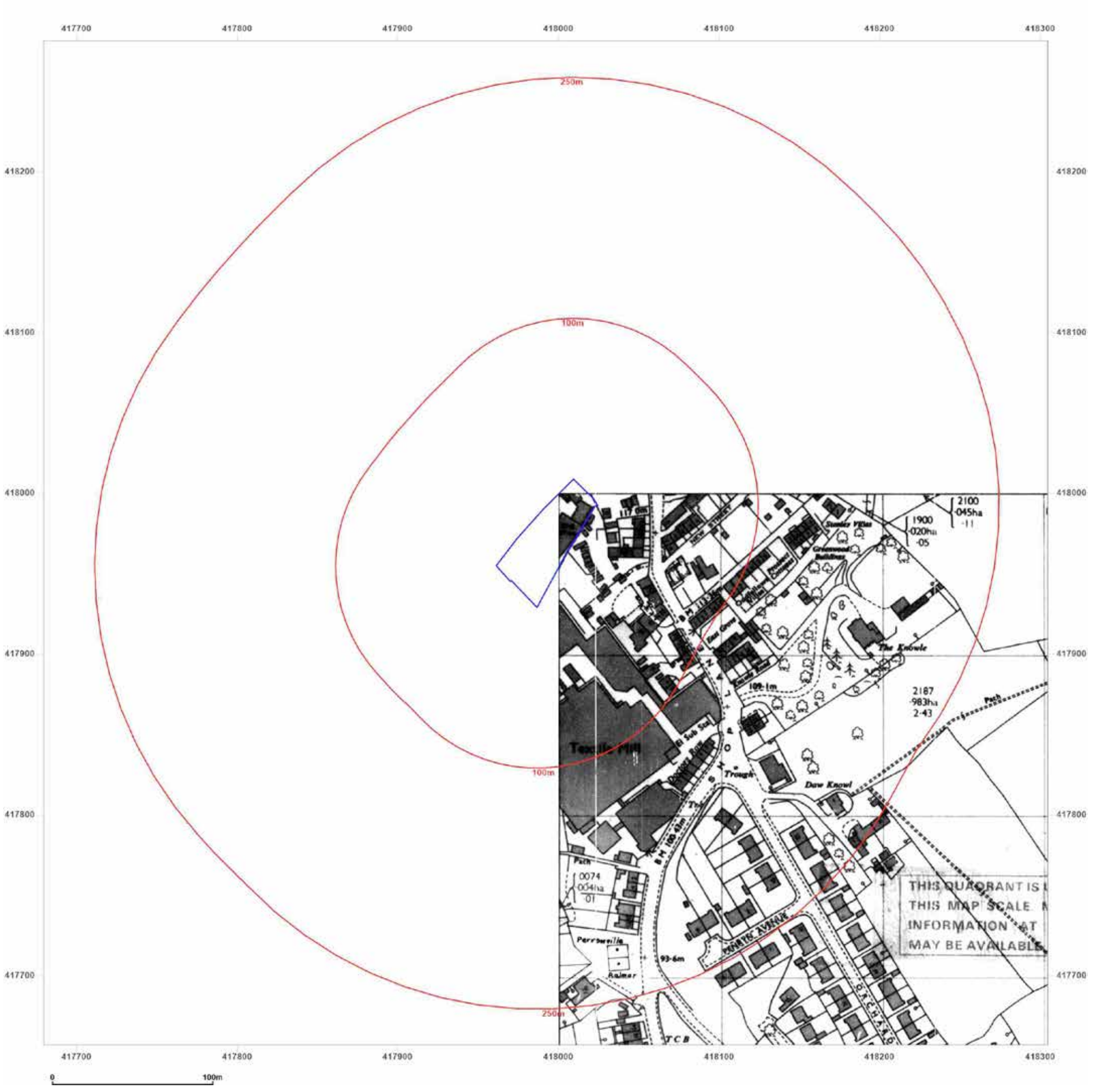
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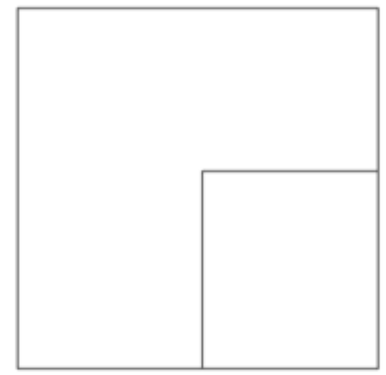
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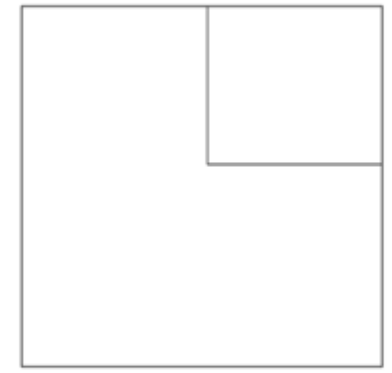
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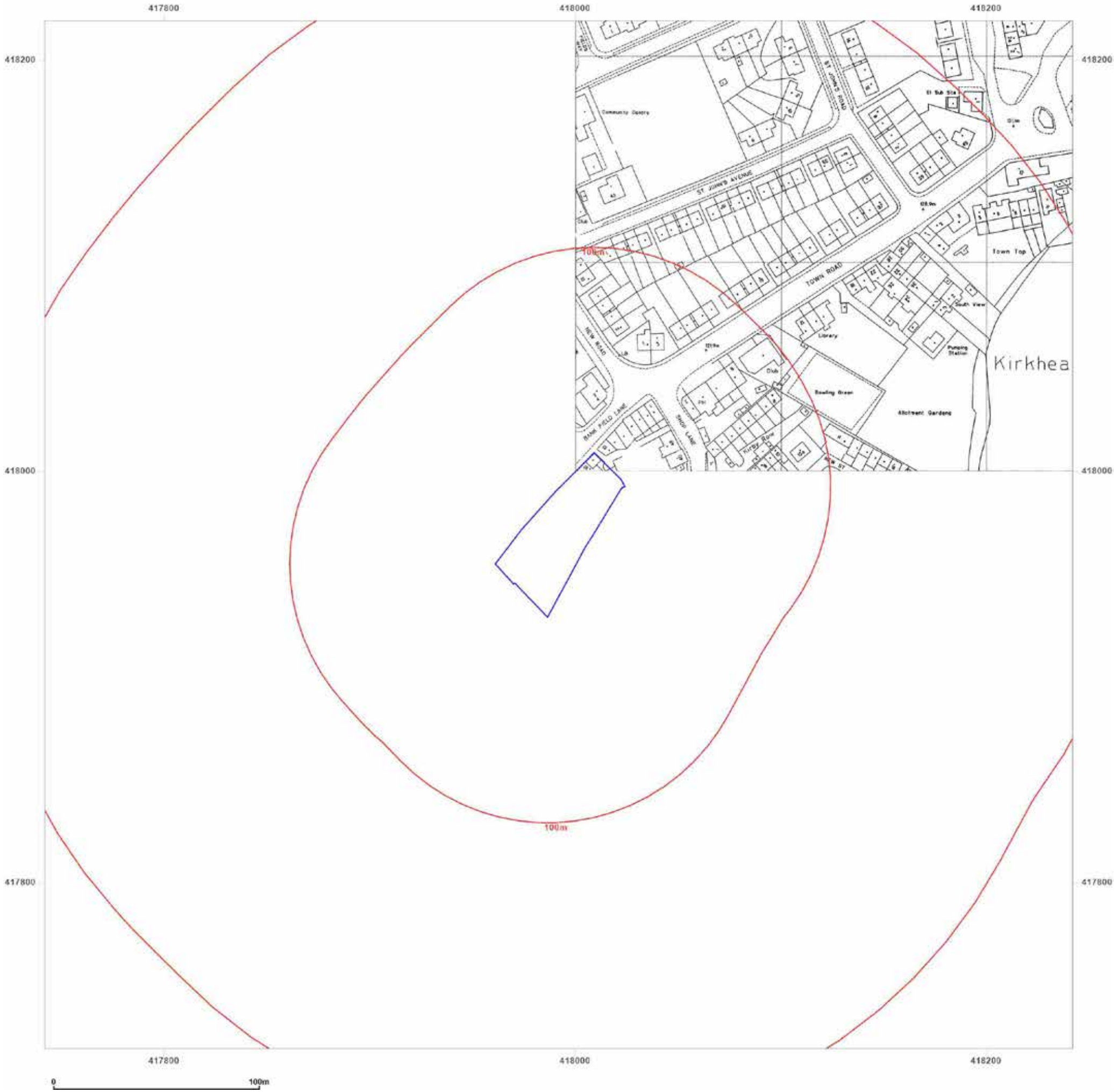
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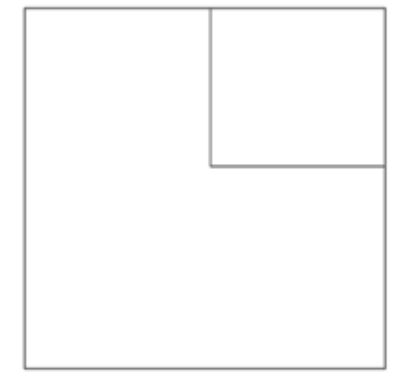
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Revised 1994
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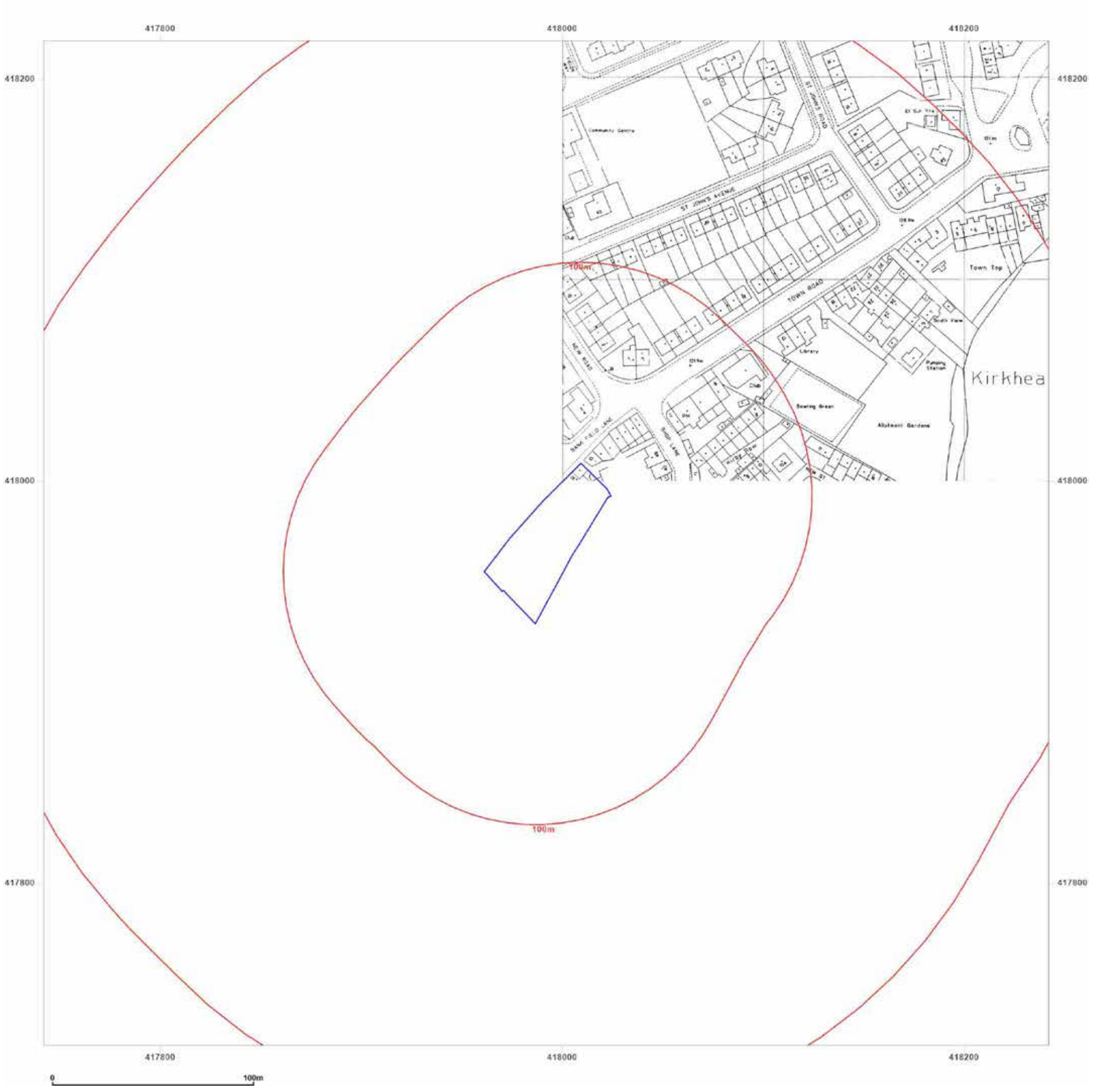
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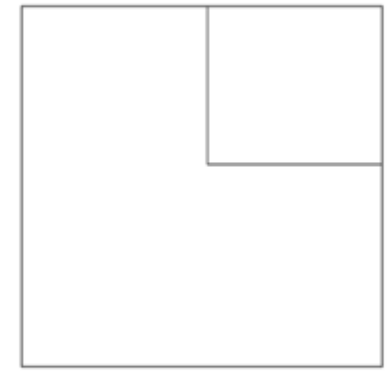
4, BANKFIELD LANE,
KIRKHEATON, HUDDERSFIELD,
KIRKLEES, HD5 0JG

Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: National Grid
Map date: **1994**
Scale: 1:1,250
Printed at: 1:2,000

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



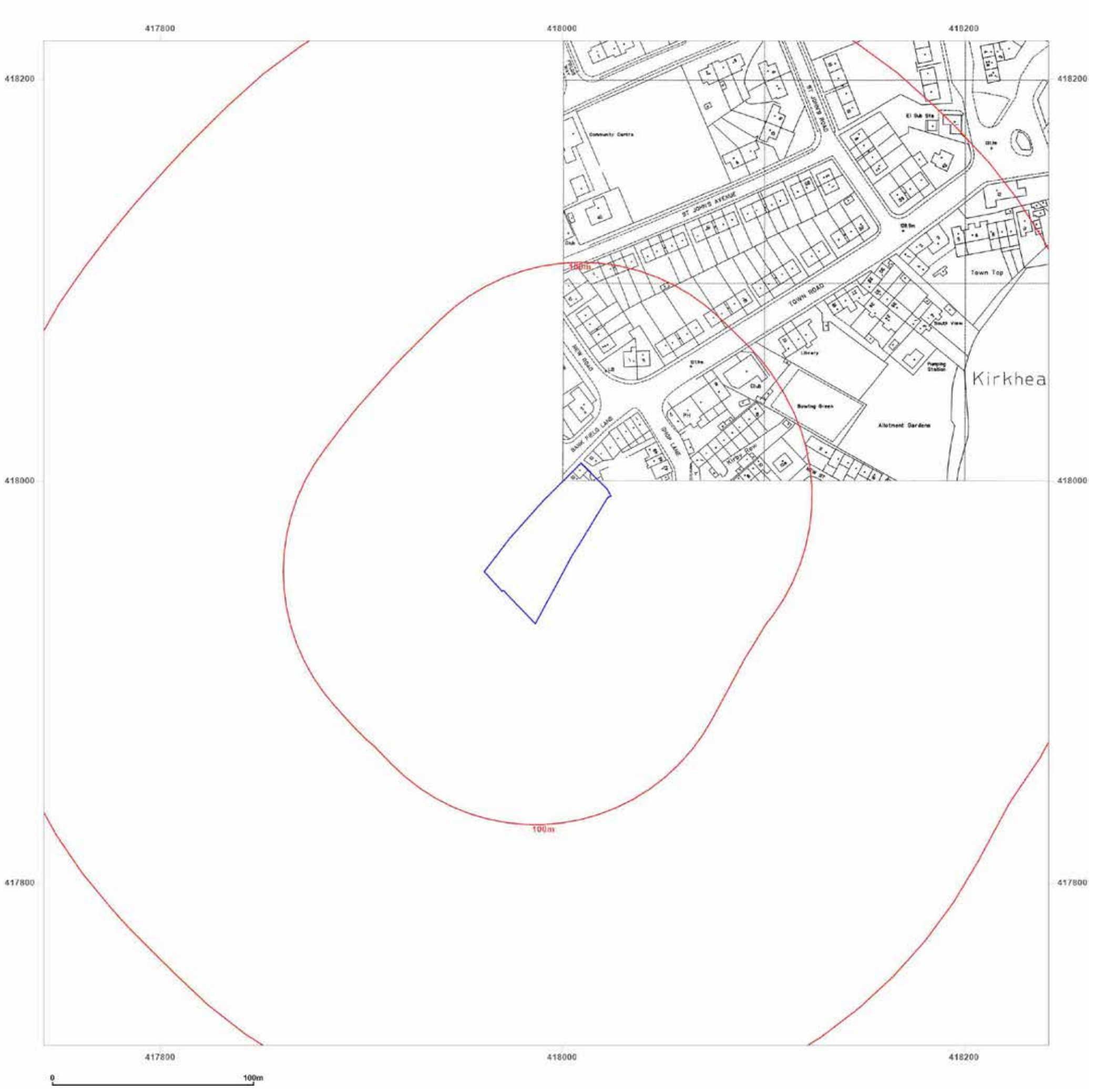
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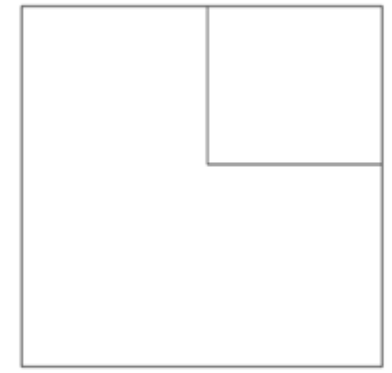
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KIRKLEES, HD5 0JG

Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: National Grid
Map date: **1995**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed 1995
Revised 1995
Edition N/A
Copyright 1995
Levelled N/A



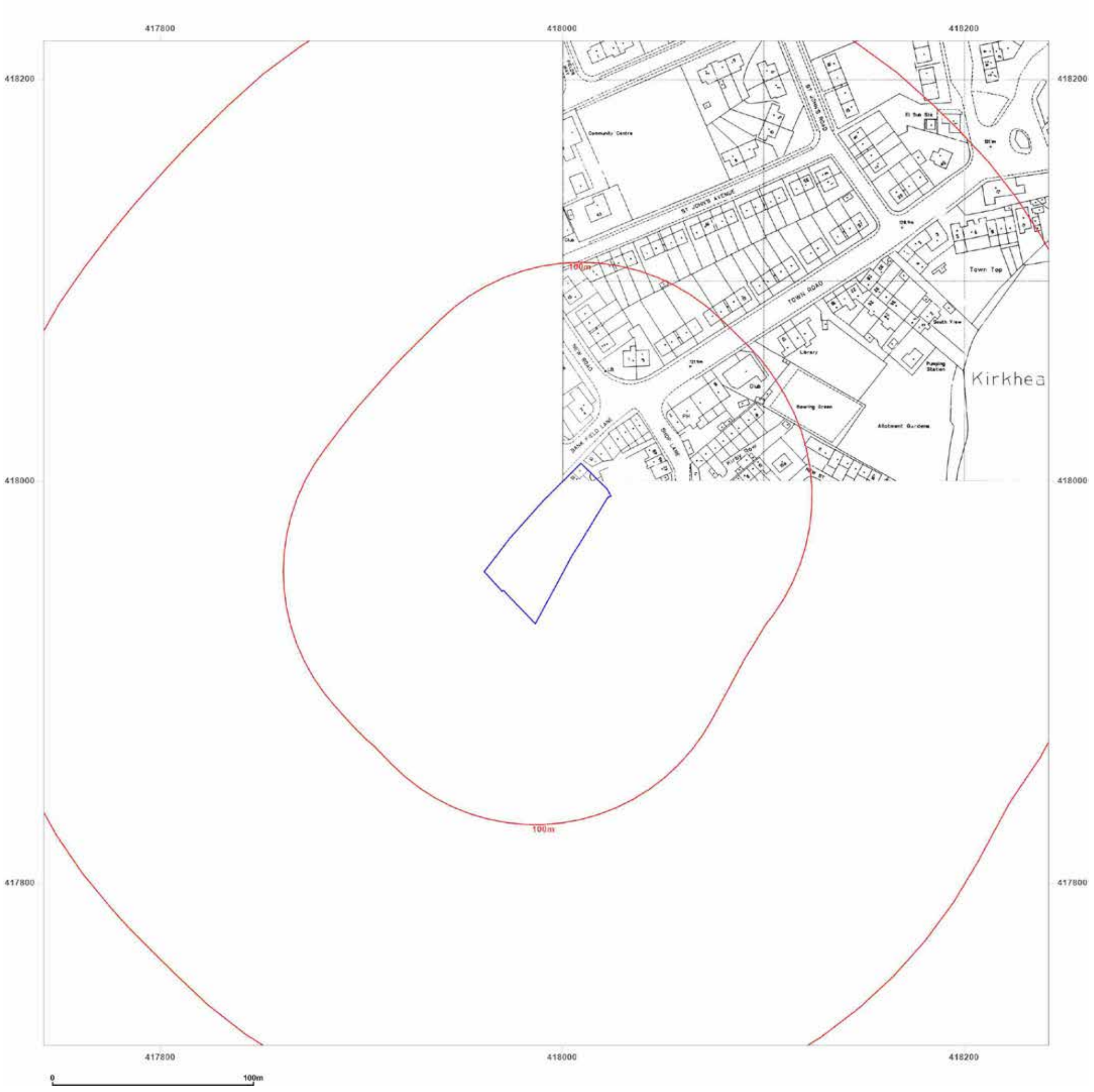
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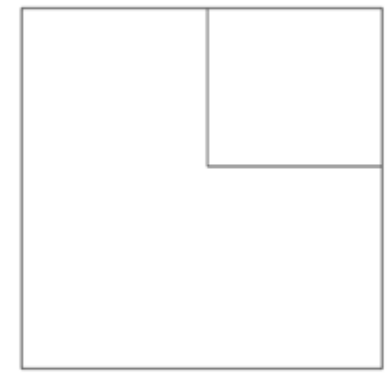
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KIRKLEES, HD5 0JG

Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: National Grid
Map date: **1995**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed 1995
Revised N/A
Edition N/A
Copyright 1995
Levelled N/A



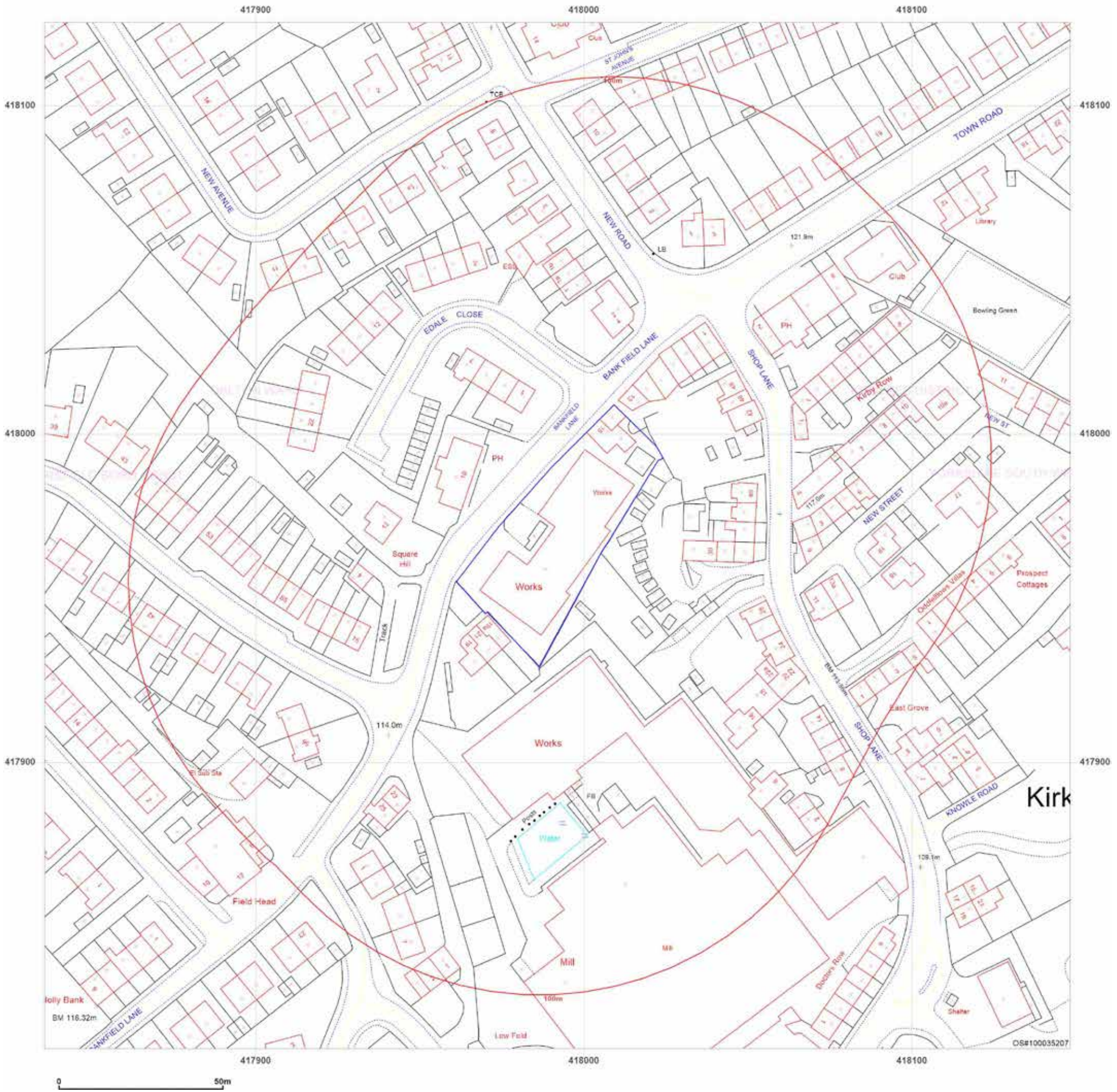
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Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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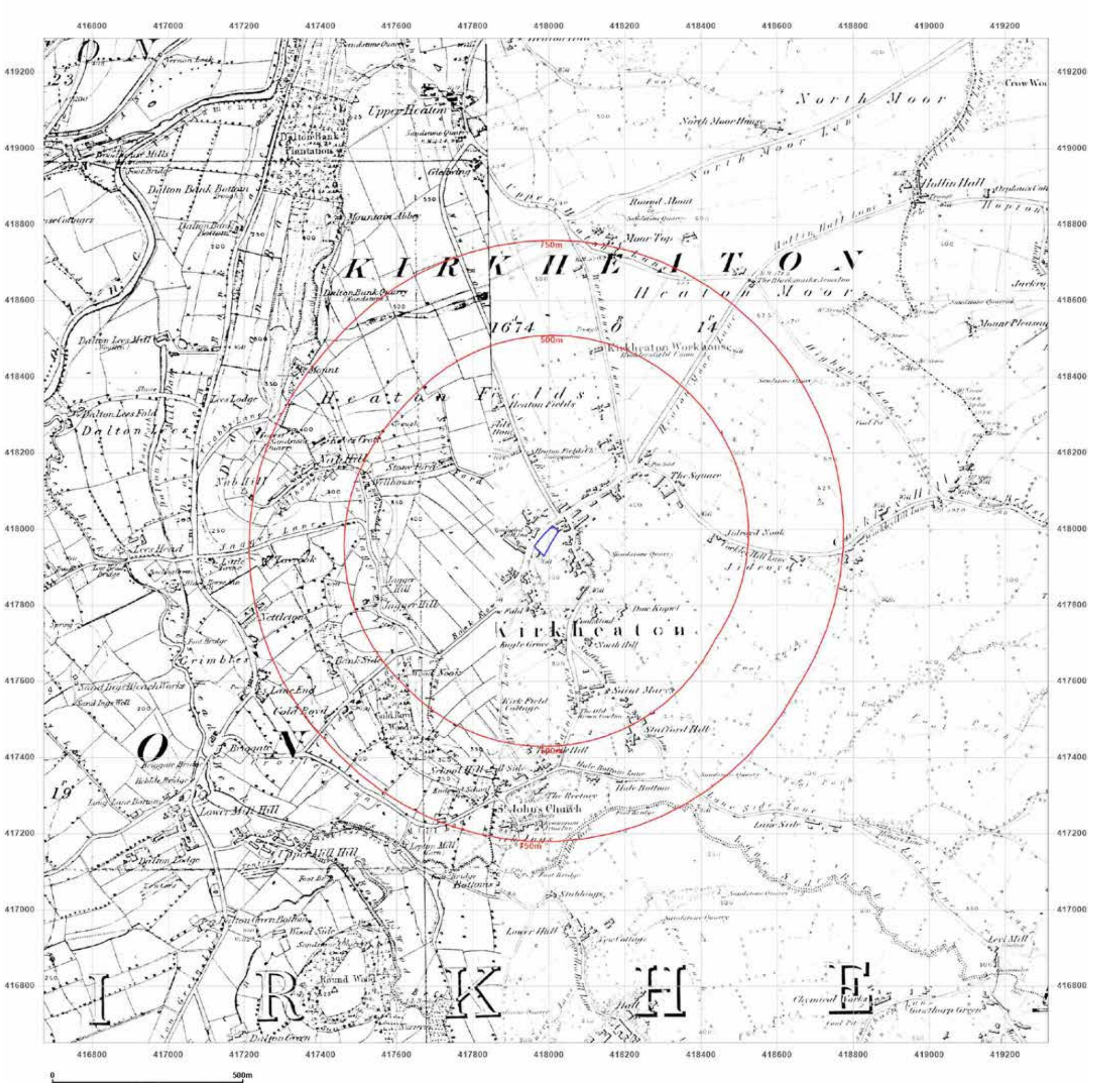
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Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: County Series

Map date: **1854-1855**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1850
Revised N/A
Edition 1854
Copyright N/A
Levelled 1853

Surveyed 1851
Revised N/A
Edition 1855
Copyright N/A
Levelled N/A

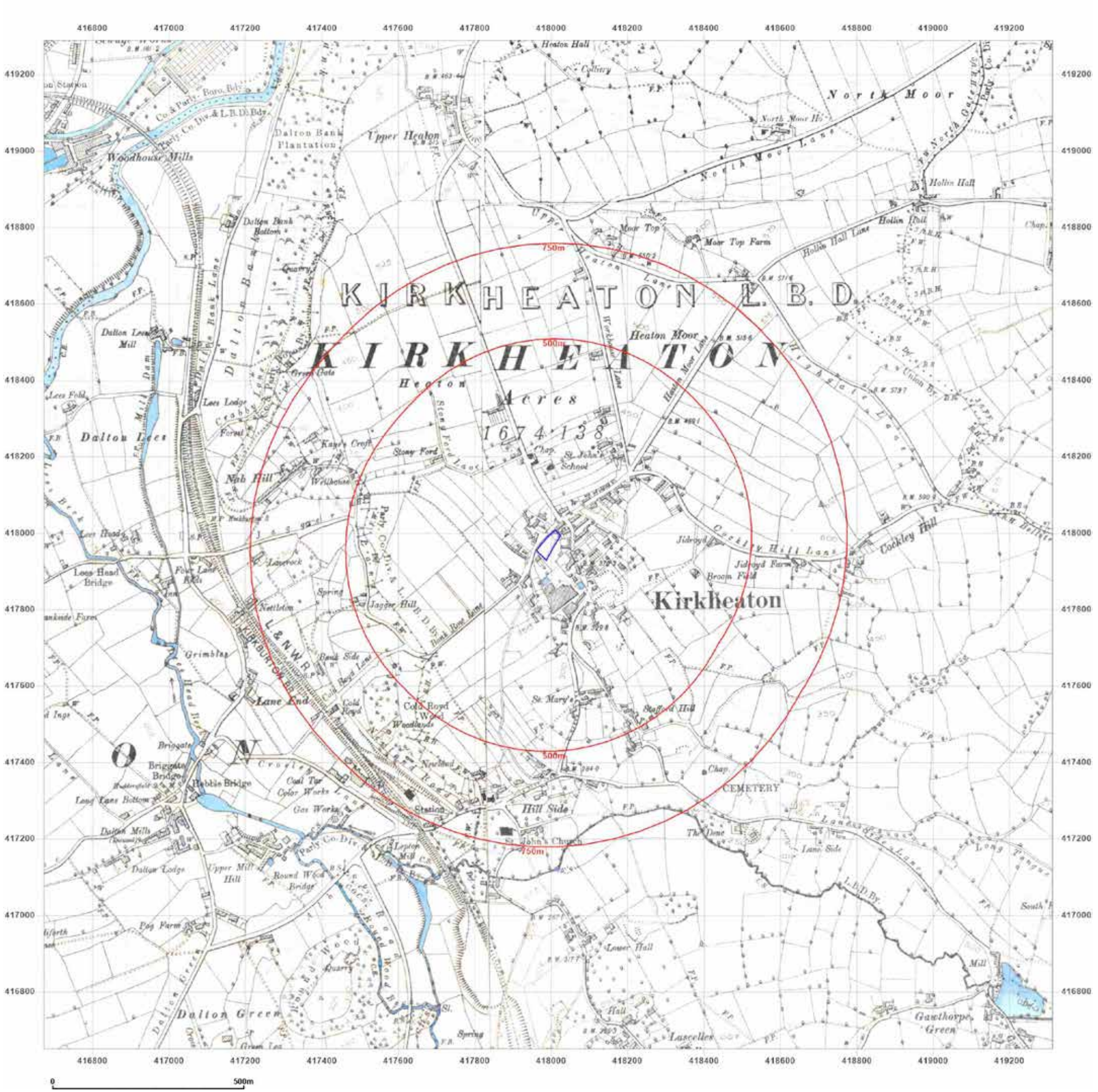
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Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: County Series

Map date: **1888-1892**

Scale: 1:10,560

Printed at: 1:10,560

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Edition N/A
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Levelled N/A

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Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

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

Surveyed 1888
Revised 1888
Edition N/A
Copyright N/A
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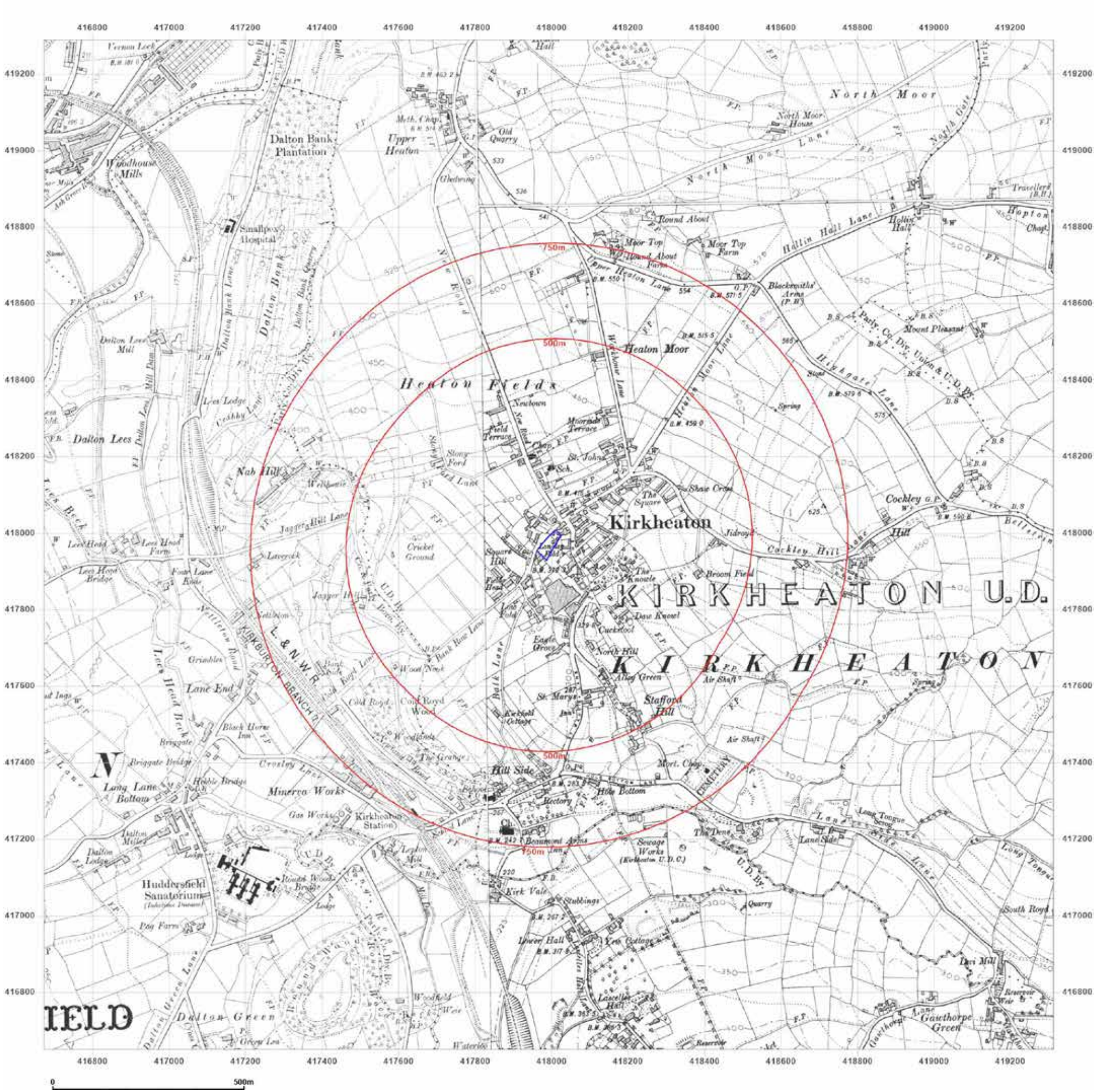
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Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: County Series
Map date: **1904-1905**
Scale: 1:10,560
Printed at: 1:10,560

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Surveyed 1892
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1892
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1889
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1888
Revised 1904
Edition N/A
Copyright N/A
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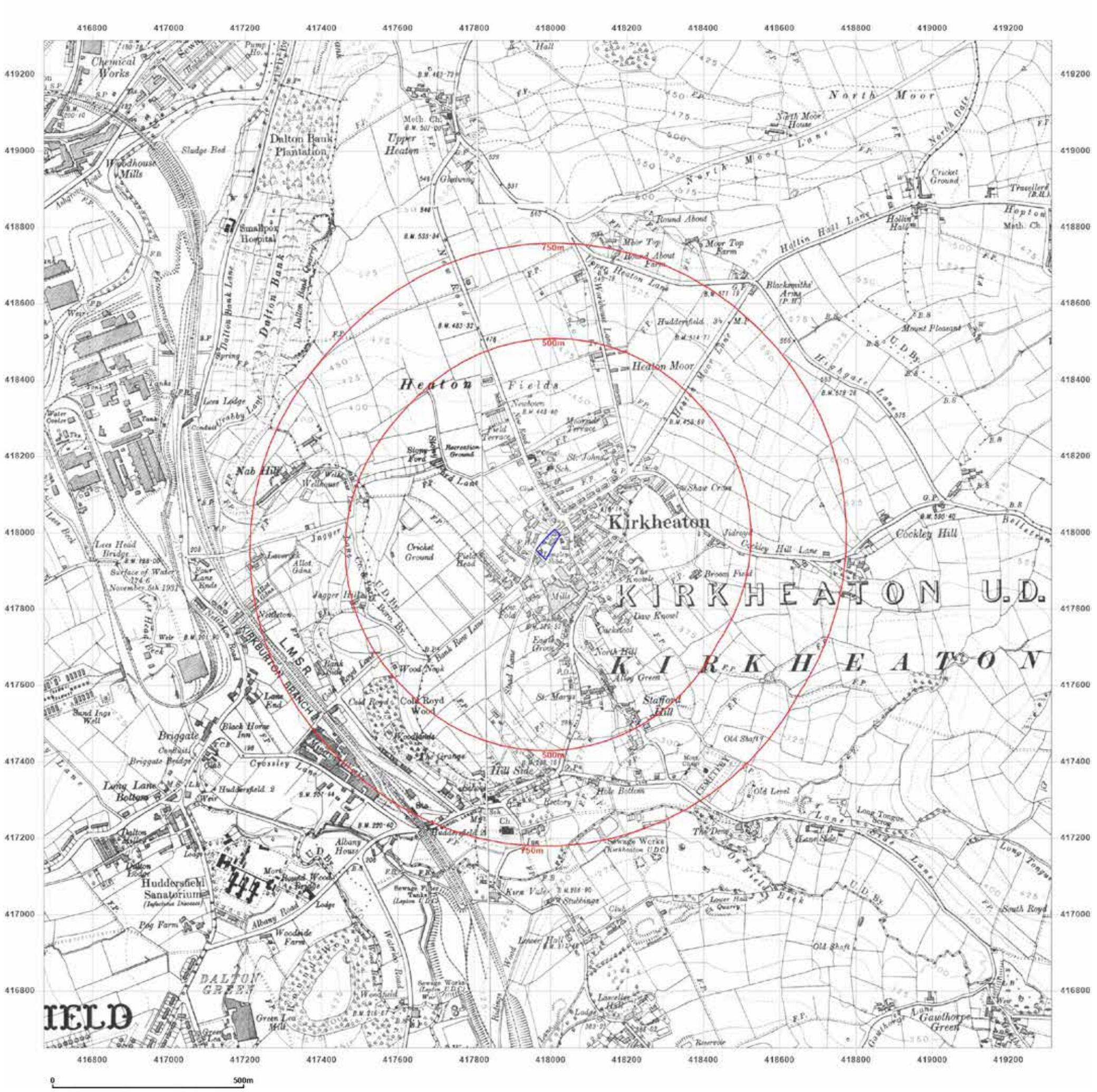
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Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: County Series

Map date: **1930-1931**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1850 Revised 1930 Edition N/A Copyright N/A Levelled N/A	Surveyed 1851 Revised 1931 Edition N/A Copyright N/A Levelled N/A
Surveyed 1851 Revised 1930 Edition 1930 Copyright N/A Levelled 1931	Surveyed 1851 Revised 1930 Edition N/A Copyright N/A Levelled N/A

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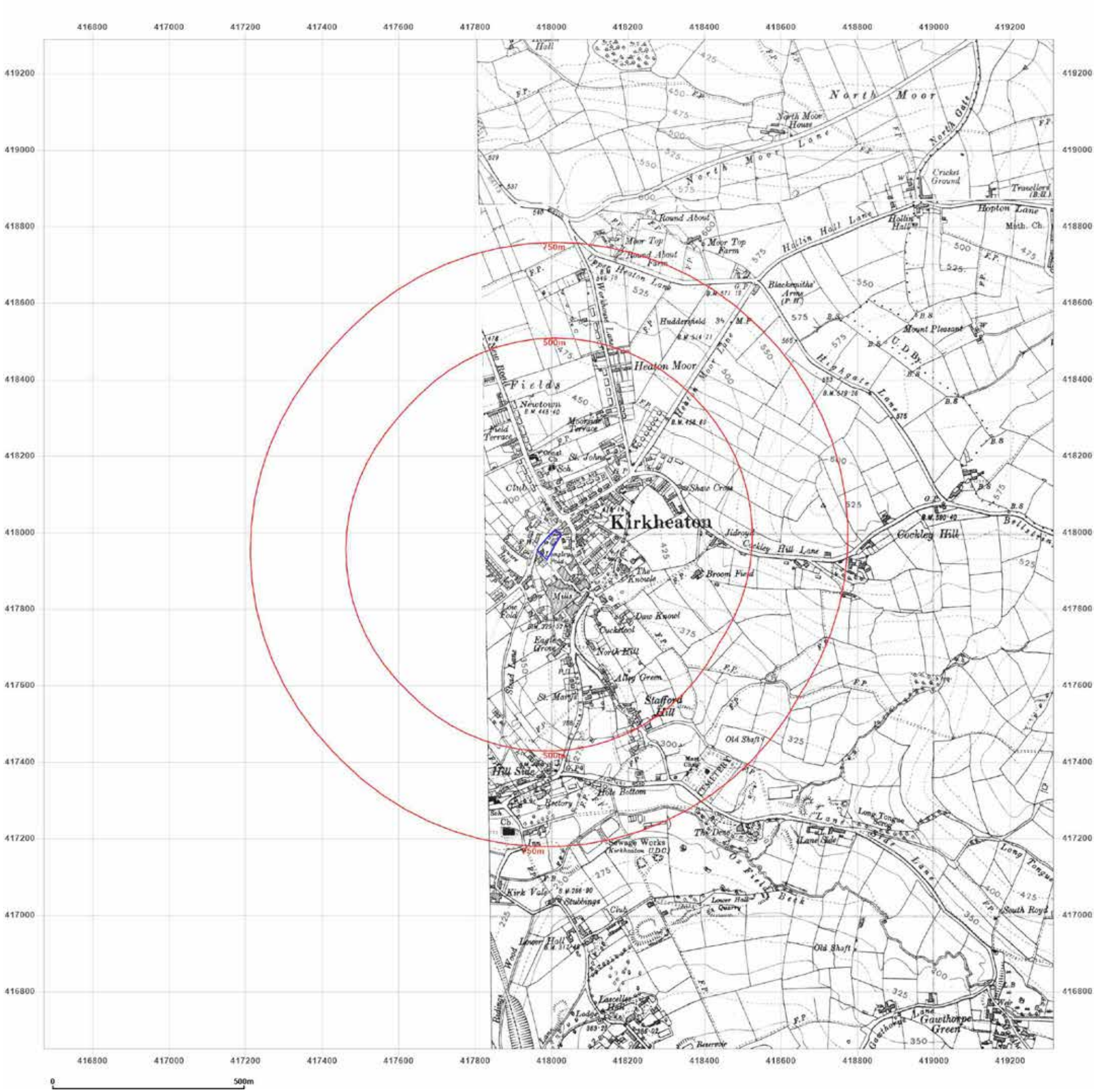
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Kirkheaton
KIRKHEATON U.D.
KIRKHEATON
Heaton Fields
Heaton Moor
North Moor
North Moor Lane
Upper Heaton
Dalton Bank Plantation
Dalton Bank
Hollin Hall Lane
Upper Heaton Lane
Highgate Lane
Cockley Hill
Cockley Hill Lane
Hopton Lane
Cricket Ground
Smallpox Hospital
Huddersfield Sanatorium
Briggate
Hill Side
Stafford Hill
Old Shaft
Mount Pleasant
Round About
Moor Top
Moor Top Farm
Round About Farm
Blacksmiths Arms (P.H.)
Kirk Vale
Sewage Works (Kirkheaton U.D.C.)
Sewage Works (Dalton U.D.C.)
Recreation Ground
Cricket Ground
Club
St. John's
St. Mary's
Chemical Works
Woodhouse Mills
Sludge Bed
Lees Lodge
Nab Hill
Lees Head Bridge
Surface of Water 176·6 November 6th 1981
Four Lane Ends
Lane Ends
Black Horse Inn
Briggate Bridge
Long Lane Bottom
Albany House
Albany Road
Woodside Farm
Pig Farm
Green Lea Mill
Dalton Mills
Dalton Bank Lane
Dalton Bank Quarry
Crabby Lane
Jagger Hill
Jagger Lane
Lavcroft
Allot. Gdns.
Naddock
Low Fold
Bank Bottom
Bank Bow Lane
Cold Royd Lane
Cold Royd Wood
Wood Nook
Woodlands
The Grange
Acre Green
Stoney Ford
Field Head
Broom Field
The Knowle
Oakwood
Dew Knowl
North Hill
Earls Grove
Lane Tongue Bank
Lane Tongue Bank Quarry
Lane Gate
Lane Gate Green
Lane Gavelthorpe
Gavelthorpe Green
Old Field Beck
Lower Hall Quarry
Lower Hall
Woodfield
Lascelles Hall
Lodge
Reservoir
Waterloo Road
Wood Lane
Wood Royd
Wood Royd Terrace
Moorside Terrace
Mold Terrace
Nab Hill Terrace
Walkmill
Walkmill Dam
Lea Head Bridge
Weir
Sluice
Spring
Tank
Water Cooler
Tks
Pump Ho.
Meth. Ch.
Chapel
Sch.
Cemetery
Quarry
Tunnel
Culvert
Aqueduct
Level Crossing
Footbridge
Ford
Pond
Reservoir
Lock
Sluice
Weir



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Site Details:

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KIRKLEES, HD5 0JG

Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: County Series

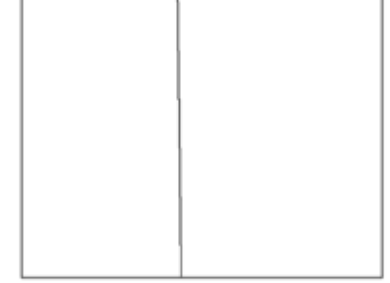
Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1851
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1850
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

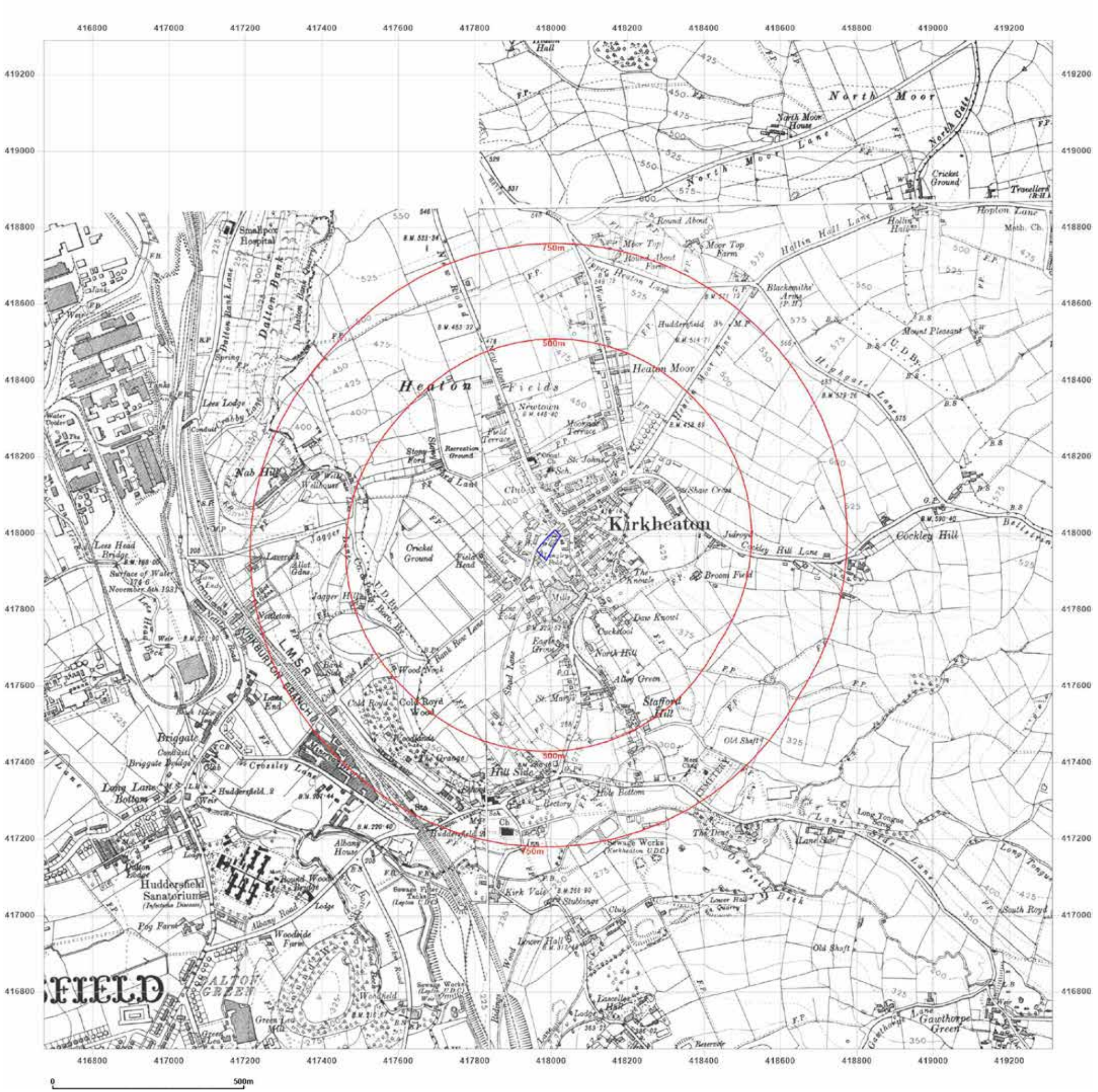
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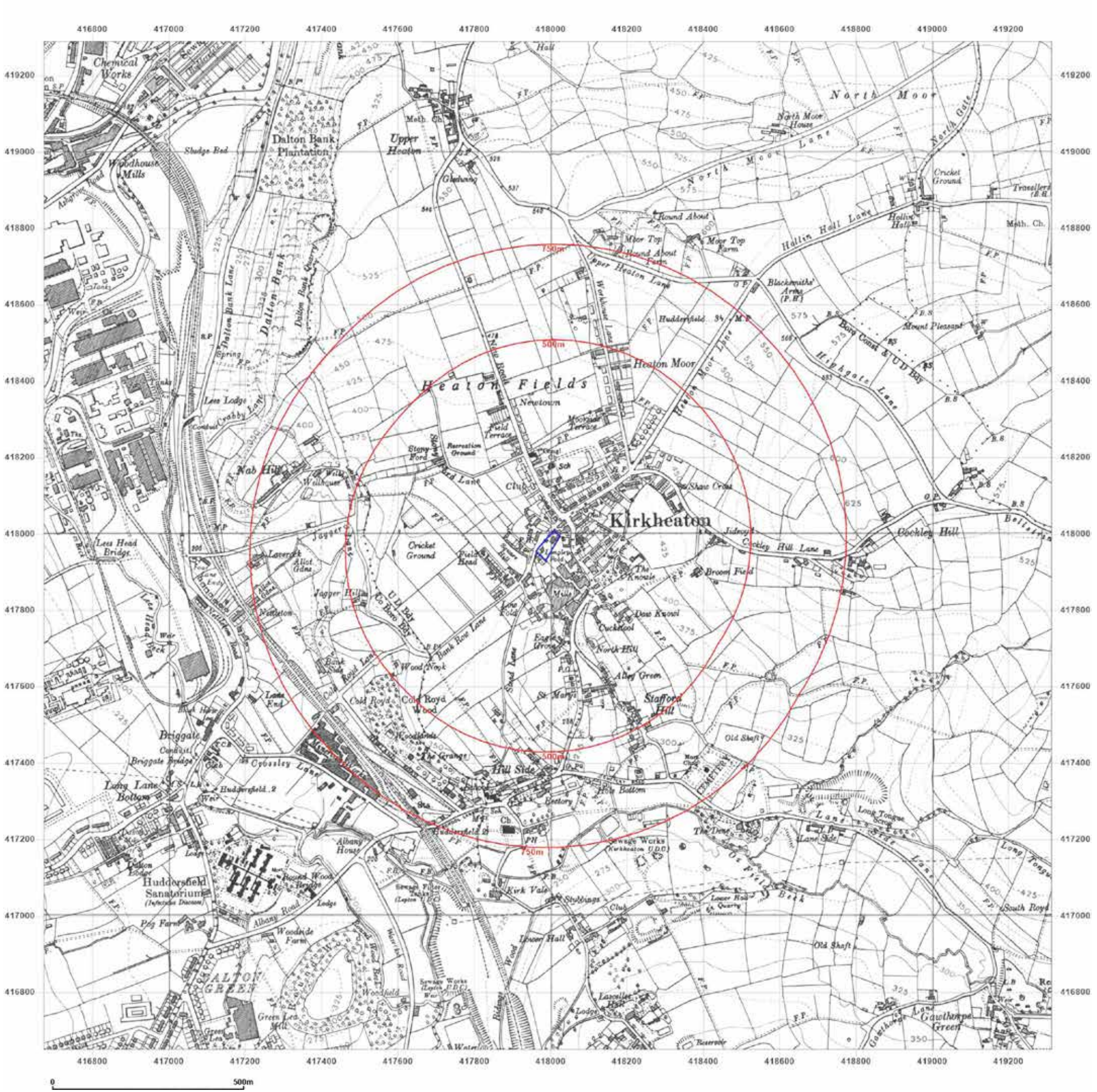
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750m
500m
250m
Heaton
Kirkheaton
Heaton Moor
North Moor
Nab Hill
Hall Hill
Hill Side
Stafford Hill
Cockley Hill
Broom Field
Dalton Bank
Briggate
Huddersfield Sanatorium
Smallpox Hospital
Lea Head Bridge
Surface of Water 176 6 November 8th 1937
KIRKBURTON BRANCH
L.M.S.R.
Cricket Ground
Recreation Ground
Sewage Works
Mount Pleasant
Mount Pleasant Terrace
Blacksmiths' Arms (P.H.)
Hollin Hall
Hollin Hall Lane
Hoylon Lane
Highgate Lane
Cockley Hill Lane
Dalton Bank Lane
Crosley Lane
Albany Road
Albany House
Albany Green
Woodside Farm
Foy Farm
Lea Lodge
Lea Hall
Briggate Bridge
Long Lane Bottom
Hole Bottom
Old Shaft
Old Pinfold
Stubbings
Lower Hall
Excelsior Mill
Gawthorpe Green
Lane Side
Long Tongue
Stafford Hill
Cold Royd
Cold Royd Wood
Wood Nook
Bank Side
Bank Bottom
Bank Bottom Quarry
Bank Bottom Road
Bank Bottom Lane
Broad Wood Bridge
Broad Wood
Woodfield
Woodfield Mill
Green Lea Mill
Green Lea
Alton Green
Lane End
Lane Ends
Jagger Hill
Jagger Lane
Nettleton
Nettleton Road
Nettleton Hill
Nettleton Hill Road
Stoney Ford
Stoney Ford Lane
Field Head
Field Terrace
Moorside Terrace
Newtown
Round About
Round About Farm
Moor Top
Moor Top Farm
Moor Top Lane
Heaton Lodge
Heaton Lodge Lane
Warbirdwood Lane
Hollin Hall Fields
Hollin Hall Moor Lane
North Moor Lane
North Moor House
North Gate
Traveller's
Mount Ch.
Meth. Ch.
St. John's
Club
Sch
Ch
Rectory
Vicarage
Dene Knowl
Cuckoo Knowl
North Hill
Eagle Crag
Stone Crag
Shaw Cross
Judcroyd
Judcroyd Hill Lane
Lane Side
The Dene
The Knowle
Mills
Lone Fold
Soad Lane
Pinfold Beck
Pinfold Wood
Lower Hall Quarry
Kirk Vale
Sewage Works (Kirkheaton U.D.C.)
Sewage Filter Tanks (Kirkheaton U.D.C.)
Sewage Works (Huddersfield U.D.C.)
Waterloo
Waterloo Road
Waterloo Mill
Waterloo Mill Road
Waterloo Mill Lane
Waterloo Mill Dam
Waterloo Mill Pond
Waterloo Mill Race
Waterloo Mill Weir
Waterloo Mill Tank
Waterloo Mill Tank Lane
Waterloo Mill Tank Road
Waterloo Mill Tank Dam
Waterloo Mill Tank Pond
Waterloo Mill Tank Race
Waterloo Mill Tank Weir



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Site Details:

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Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: Provisional
Map date: **1956**
Scale: 1:10,560
Printed at: 1:10,560

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Surveyed 1951
Revised 1951
Edition N/A
Copyright 1956
Levelled N/A

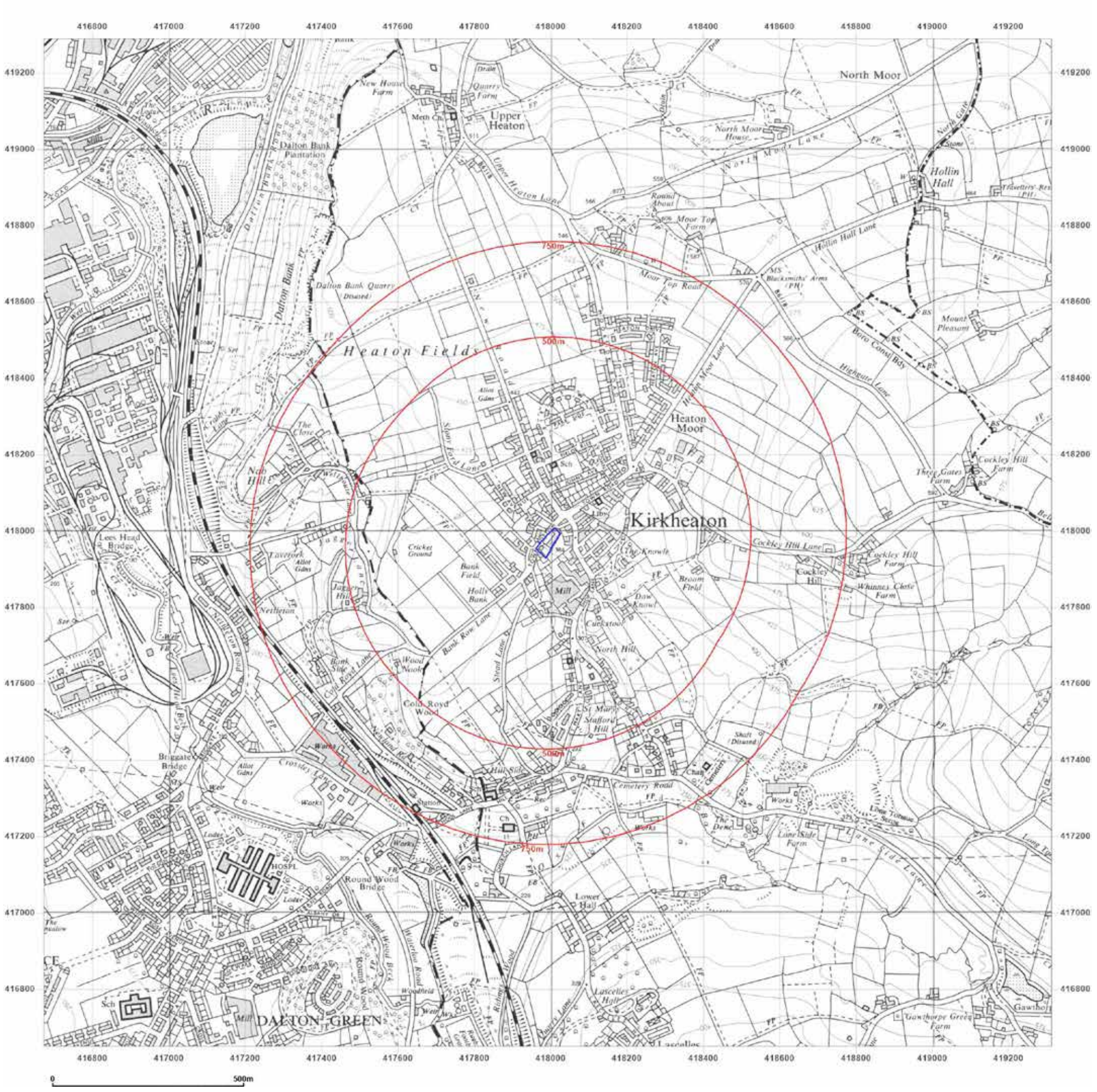
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Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: Provisional

Map date: **1965**

Scale: 1:10,560

Printed at: 1:10,560

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Revised 1965
Edition N/A
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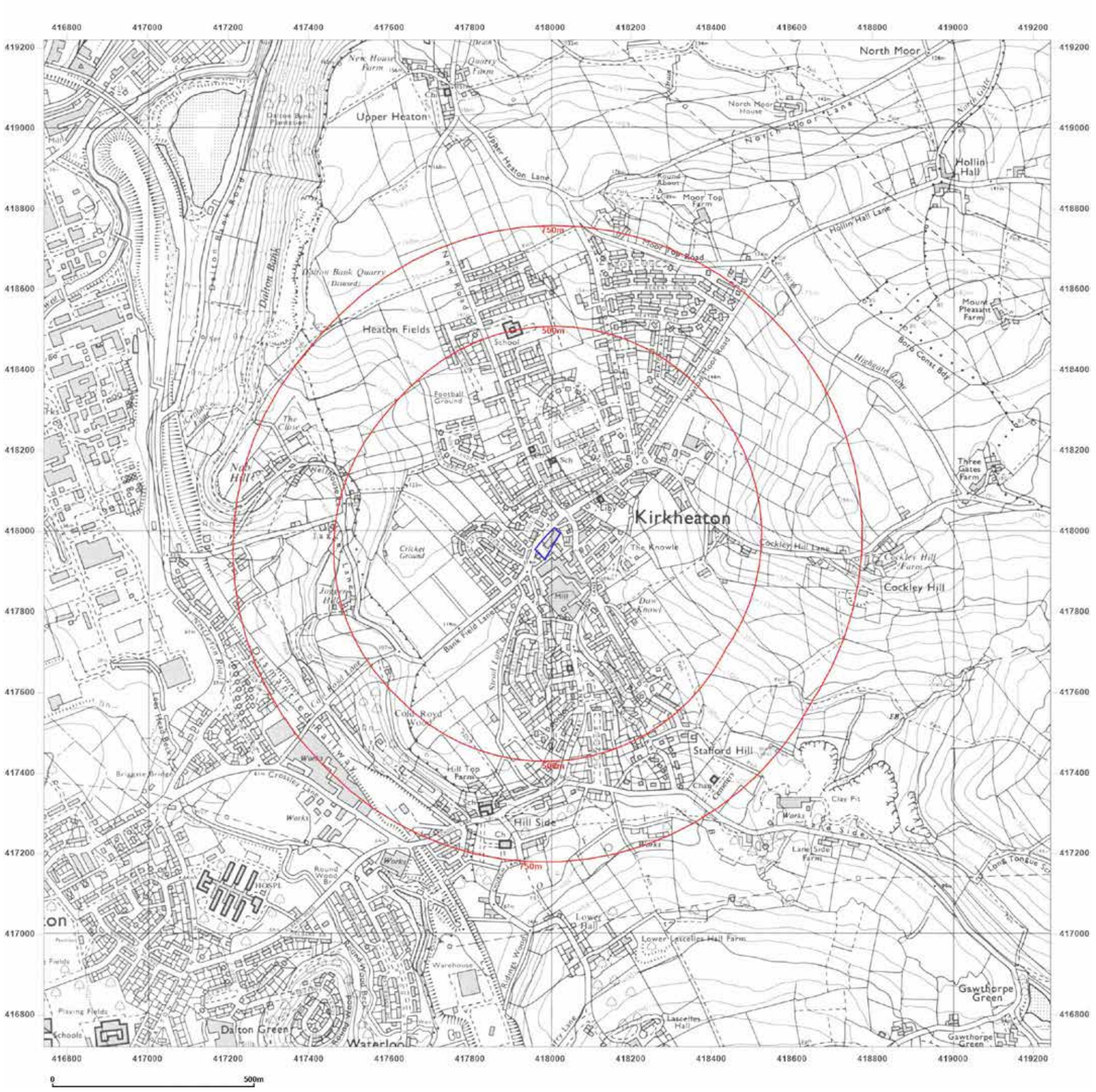
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Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: National Grid

Map date: **1975**

Scale: 1:10,000

Printed at: 1:10,000

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Revised 1975
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Levelled N/A

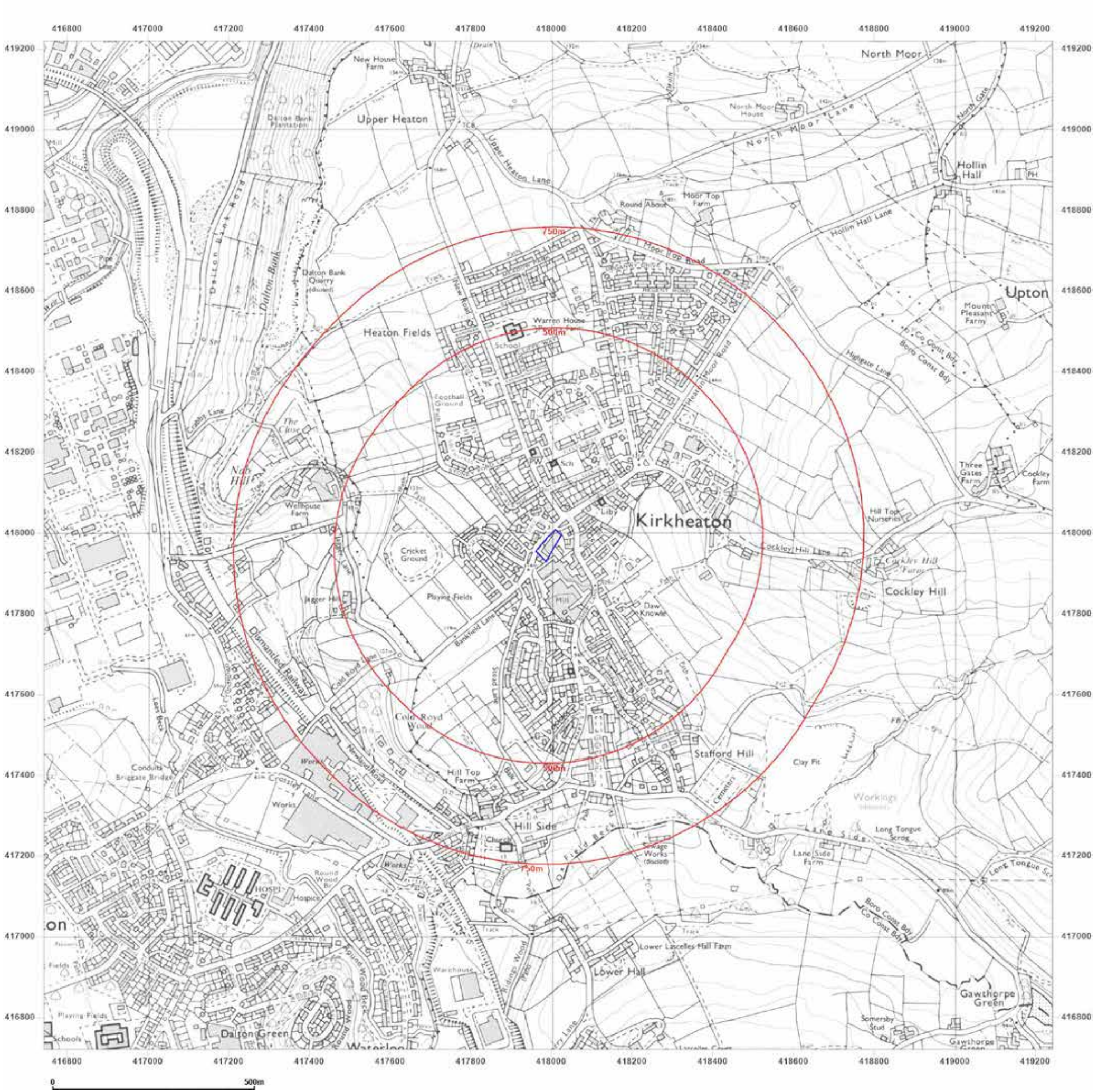
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Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: National Grid

Map date: **1988**

Scale: 1:10,000

Printed at: 1:10,000

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Edition N/A
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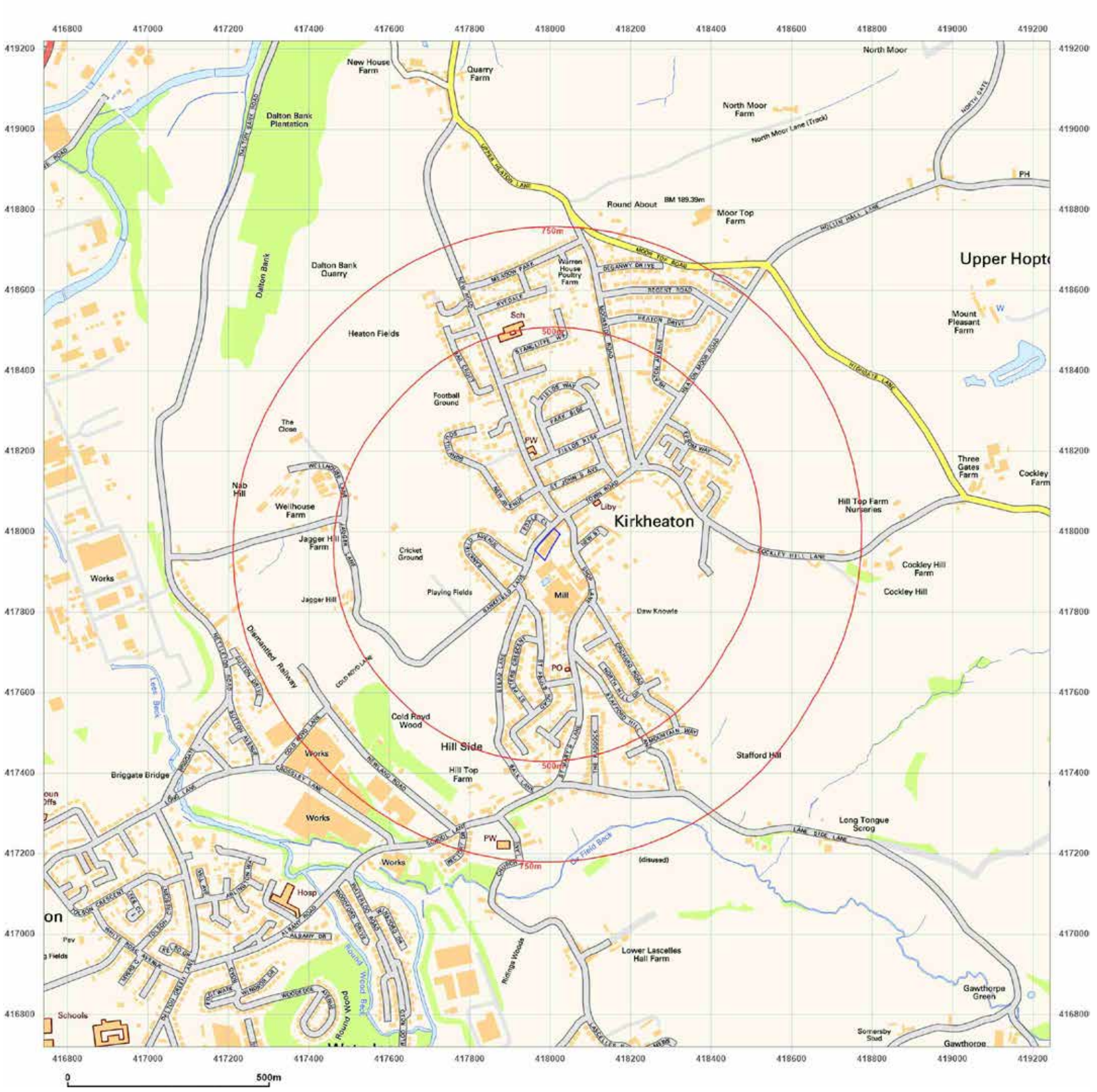
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KIRKHEATON, HUDDERSFIELD,
KIRKLEES, HD5 0JG

Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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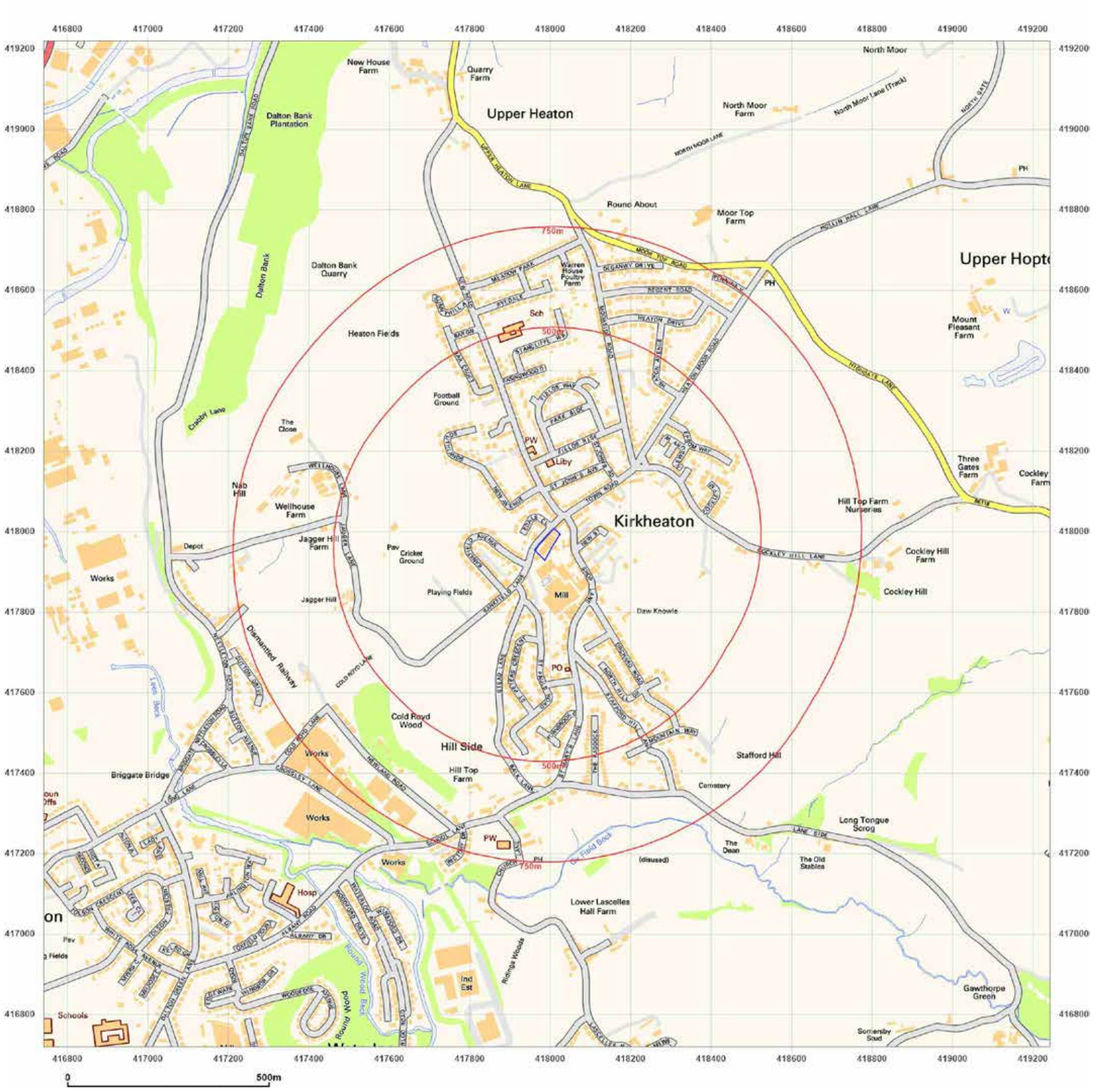
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Groundsure INSIGHTS

Site Details:

4, BANKFIELD LANE,
KIRKHEATON, HUDDERSFIELD,
KIRKLEES, HD5 0JG

Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

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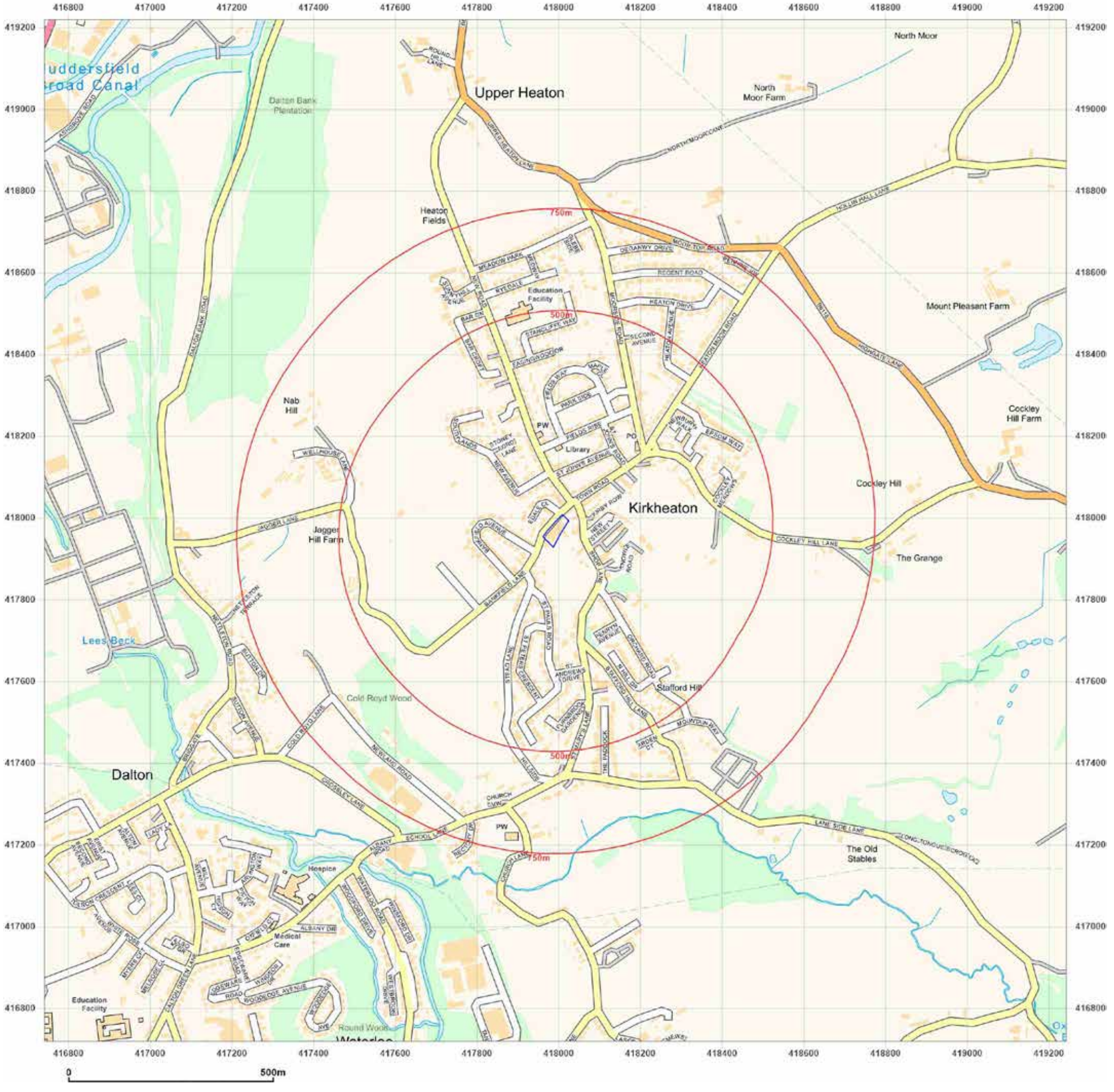
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Groundsure INSIGHTS

Site Details:

4, BANKFIELD LANE,
KIRKHEATON, HUDDERSFIELD,
KIRKLEES, HD5 0JG

Client Ref: C/4780/24/E/7301 - PO-3192
Report Ref: GS-4W1-DH1-XHR-Z2H
Grid Ref: 417992, 417969

Map Name: National Grid
Map date: **2025**
Scale: 1:10,000
Printed at: 1:10,000

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Map legend available at:
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Appendix 3

Groundsure Reports

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

4, BANKFIELD LANE, KIRKHEATON, HUDDERSFIELD, KIRKLEES, HD5 0JG

Order Details

Date: 30/01/2025

Your ref: C/4780/24/E/7301 - PO-3192

Our Ref: GS-5HW-9FA-DC2-U1D

Site Details

Location: 417992 417969

Area: 0.21 ha

Authority: Kirklees 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

Certified B Corporation

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 >	2	3	1	3	-
16 >	1.2 >	Historical tanks >	0	0	1	3	-
16 >	1.3 >	Historical energy features >	0	0	13	3	-
17	1.4	Historical petrol stations	0	0	0	0	-
18 >	1.5 >	Historical garages >	1	0	0	3	-
18	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
19 >	2.1 >	Historical industrial land uses >	3	3	1	4	-
20 >	2.2 >	Historical tanks >	0	0	1	6	-
21 >	2.3 >	Historical energy features >	0	0	22	4	-
22	2.4	Historical petrol stations	0	0	0	0	-
22 >	2.5 >	Historical garages >	1	0	0	3	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
23	3.1	Active or recent landfill	0	0	0	0	-
23	3.2	Historical landfill (BGS records)	0	0	0	0	-
24	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
24	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
24	3.5	Historical waste sites	0	0	0	0	-
24	3.6	Licensed waste sites	0	0	0	0	-
24 >	3.7 >	Waste exemptions >	0	4	0	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
26 >	4.1 >	Recent industrial land uses >	1	0	7	-	-
27 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
27	4.3	Electricity cables	0	0	0	0	-
27	4.4	Gas pipelines	0	0	0	0	-
28	4.5	Sites determined as Contaminated Land	0	0	0	0	-

28	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
28	4.7	Regulated explosive sites	0	0	0	0	-
28	4.8	Hazardous substance storage/usage	0	0	0	0	-
28	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
29	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
29	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
29	4.12	Radioactive Substance Authorisations	0	0	0	0	-
29	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
29	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
30	4.15	Pollutant release to public sewer	0	0	0	0	-
30	4.16	List 1 Dangerous Substances	0	0	0	0	-
30	4.17	List 2 Dangerous Substances	0	0	0	0	-
30 >	**4.18 >**	**Pollution Incidents (EA/NRW) >**	0	0	0	2	-
31	4.19	Pollution inventory substances	0	0	0	0	-
31	4.20	Pollution inventory waste transfers	0	0	0	0	-
31	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
32	5.1	Superficial aquifer	None (within 500m)				
33 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
34 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
35	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
35	5.5	Groundwater vulnerability- local information	None (within 0m)				
36 >	**5.6 >**	**Groundwater abstractions >**	0	2	2	0	31
44 >	**5.7 >**	**Surface water abstractions >**	0	0	0	0	13
48 >	**5.8 >**	**Potable abstractions >**	0	0	0	0	1
48	5.9	Source Protection Zones	0	0	0	0	-
49	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
50	6.1	Water Network (OS MasterMap)	0	0	0	-	-

50	6.2	Surface water features	0	0	0	-	-
51 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
51 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
52 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
53	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
53	7.2	Historical Flood Events	0	0	0	-	-
53	7.3	Flood Defences	0	0	0	-	-
54	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
54	7.5	Flood Storage Areas	0	0	0	-	-
55	7.6	Flood Zone 2	None (within 50m)				
55	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
56 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
58 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
59	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
60	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
60	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
60	10.4	Special Protection Areas (SPA)	0	0	0	0	0
60	10.5	National Nature Reserves (NNR)	0	0	0	0	0
61 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
61 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	5
61	10.8	Biosphere Reserves	0	0	0	0	0
62	10.9	Forest Parks	0	0	0	0	0
62	10.10	Marine Conservation Zones	0	0	0	0	0
62 >	10.11 >	Green Belt >	0	0	1	0	0
62	10.12	Proposed Ramsar sites	0	0	0	0	0

63	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
63	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
63	10.15	Nitrate Sensitive Areas	0	0	0	0	0
63	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
64 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
65	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
66	11.1	World Heritage Sites	0	0	0	-	-
66	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
66	11.3	National Parks	0	0	0	-	-
66	11.4	Listed Buildings	0	0	0	-	-
67	11.5	Conservation Areas	0	0	0	-	-
67	11.6	Scheduled Ancient Monuments	0	0	0	-	-
67	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
68 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
69	12.2	Open Access Land	0	0	0	-	-
69	12.3	Tree Felling Licences	0	0	0	-	-
69	12.4	Environmental Stewardship Schemes	0	0	0	-	-
69	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
70 >	13.1 >	Priority Habitat Inventory >	0	0	2	-	-
71	13.2	Habitat Networks	0	0	0	-	-
71 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
71	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
72 >	14.1 >	10k Availability >	Identified (within 500m)				
73 >	14.2 >	Artificial and made ground (10k) >	0	0	0	2	-
74	14.3	Superficial geology (10k)	0	0	0	0	-

74	14.4	Landslip (10k)	0	0	0	0	-
75 >	14.5 >	Bedrock geology (10k) >	2	1	7	14	-
77 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	2	9	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
78 >	15.1 >	50k Availability >	Identified (within 500m)				
79 >	15.2 >	Artificial and made ground (50k) >	0	0	0	1	-
80	15.3	Artificial ground permeability (50k)	0	0	-	-	-
81	15.4	Superficial geology (50k)	0	0	0	0	-
81	15.5	Superficial permeability (50k)	None (within 50m)				
81	15.6	Landslip (50k)	0	0	0	0	-
81	15.7	Landslip permeability (50k)	None (within 50m)				
82 >	15.8 >	Bedrock geology (50k) >	2	1	7	11	-
84 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
84 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	2	8	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
85	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence >					
86 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
87 >	17.2 >	Running sands >	Negligible (within 50m)				
88 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
89 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
90 >	17.5 >	Landslides >	Very low (within 50m)				
91 >	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
93 >	18.1 >	BritPits >	0	0	1	1	-
94 >	18.2 >	Surface ground workings >	0	0	1	-	-
94 >	18.3 >	Underground workings >	0	0	0	0	6
95	18.4	Underground mining extents	0	0	0	0	-
95 >	18.5 >	Historical Mineral Planning Areas >	0	0	3	1	-

96	18.6	Non-coal mining	0	0	0	0	0
96	18.7	JPB mining areas	None (within 0m)				
96	18.8	The Coal Authority non-coal mining	0	0	0	0	-
96	18.9	Researched mining	0	0	0	0	-
97	18.10	Mining record office plans	0	0	0	0	-
97	18.11	BGS mine plans	0	0	0	0	-
97 >	**18.12 >**	**Coal mining >**	Identified (within 0m)				
97	18.13	Brine areas	None (within 0m)				
98	18.14	Gypsum areas	None (within 0m)				
98	18.15	Tin mining	None (within 0m)				
98	18.16	Clay mining	None (within 0m)				
Page	Section	**Ground cavities and sinkholes >**	On site	0-50m	50-250m	250-500m	500-2000m
99	19.1	Natural cavities	0	0	0	0	-
100 >	**19.2 >**	**Mining cavities >**	0	0	0	0	1
100	19.3	Reported recent incidents	0	0	0	0	-
100	19.4	Historical incidents	0	0	0	0	-
Page	Section	**Radon >**					
101 >	**20.1 >**	**Radon >**	Between 1% and 3% (within 0m)				
Page	Section	**Soil chemistry >**	On site	0-50m	50-250m	250-500m	500-2000m
103 >	**21.1 >**	**BGS Estimated Background Soil Chemistry >**	5	10	-	-	-
104	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
104	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
105	22.1	Underground railways (London)	0	0	0	-	-
105	22.2	Underground railways (Non-London)	0	0	0	-	-
105	22.3	Railway tunnels	0	0	0	-	-
105	22.4	Historical railway and tunnel features	0	0	0	-	-
105	22.5	Royal Mail tunnels	0	0	0	-	-
106	22.6	Historical railways	0	0	0	-	-

106	22.7	Railways	0	0	0	-	-
106	22.8	Crossrail 2	0	0	0	0	-
106	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 30/05/2021

Site Area: 0.21ha

Recent site history - 2018 aerial photograph



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Capture Date: 01/07/2018

Site Area: 0.21ha

Recent site history - 2012 aerial photograph



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Capture Date: 26/03/2012

Site Area: 0.21ha

Recent site history - 2000 aerial photograph



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Capture Date: 05/08/2000

Site Area: 0.21ha

Recent site history - 1999 aerial photograph

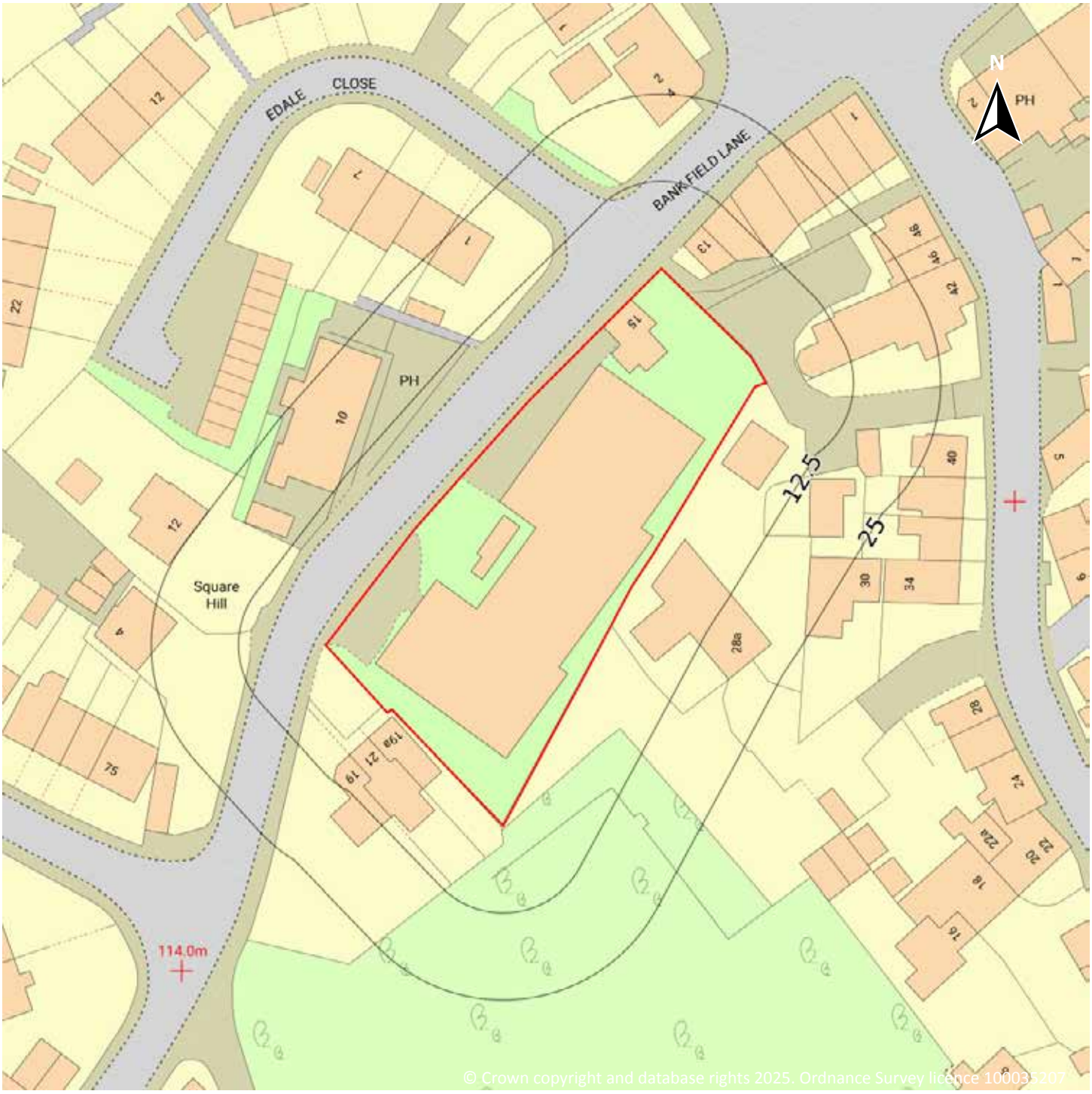


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Capture Date: 04/09/1999

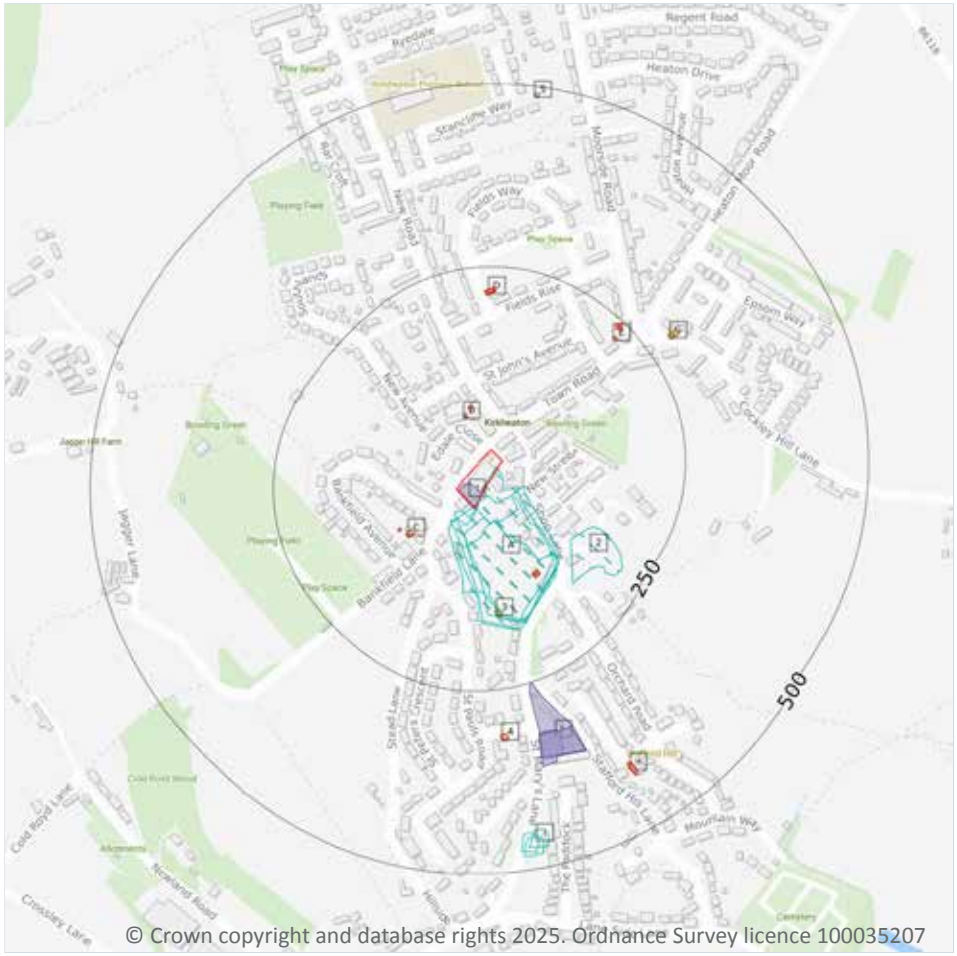
Site Area: 0.21ha

OS MasterMap site plan



Site Area: 0.21ha

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	9

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

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Mill**	**1975 - 1988**	**1534011**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Mills**	**1948**	**1559660**
A	3m S	Unspecified Mills	1956	1552473
A	18m S	Unspecified Mills	1965	1509590
A	30m S	Unspecified Mills	1938	1514345
2	136m SE	Unspecified Pit	1888	1450141
I	448m S	Unspecified Heap	1956	1485805
I	449m S	Unspecified Heap	1938	1500720
I	456m S	Unspecified Heap	1948	1492268

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 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
3	142m S	Tanks	1932	235565
G	283m NE	Unspecified Tank	1907 - 1932	244586
G	289m NE	Unspecified Tank	1968 - 1977	250805
5	485m N	Unspecified Tank	1907	239205

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**16**

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 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
B	55m N	Electricity Substation	1971	143948
B	63m N	Electricity Substation	1984 - 1993	153202
C	82m SW	Electricity Substation	1993	143966
C	93m SW	Electricity Substation	1970 - 1984	149652
A	118m SE	Electricity Substation	1970	155876
A	121m SE	Electricity Substation	1989	158725
D	211m N	Electricity Substation	1994 - 1995	153995
D	212m N	Electricity Substation	1977	155979
D	213m N	Electricity Substation	1968	146621
D	213m N	Electricity Substation	1984 - 1992	152151
E	225m NE	Electricity Substation	1977	143961
E	237m NE	Electricity Substation	1984 - 1995	157351
E	238m NE	Electricity Substation	1968	146740
4	311m S	Electricity Substation	1984 - 1989	161625
H	405m SE	Electricity Substation	1970	149893
H	408m SE	Electricity Substation	1989	156197

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 un-grouped 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	4

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 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**	**Garage**	**1961**	**45623**
F	251m S	Garage	1989	51190
F	320m S	Garage	1970	47249
F	322m S	Garage	1984	51715

This data is sourced from Ordnance Survey / Groundsure.

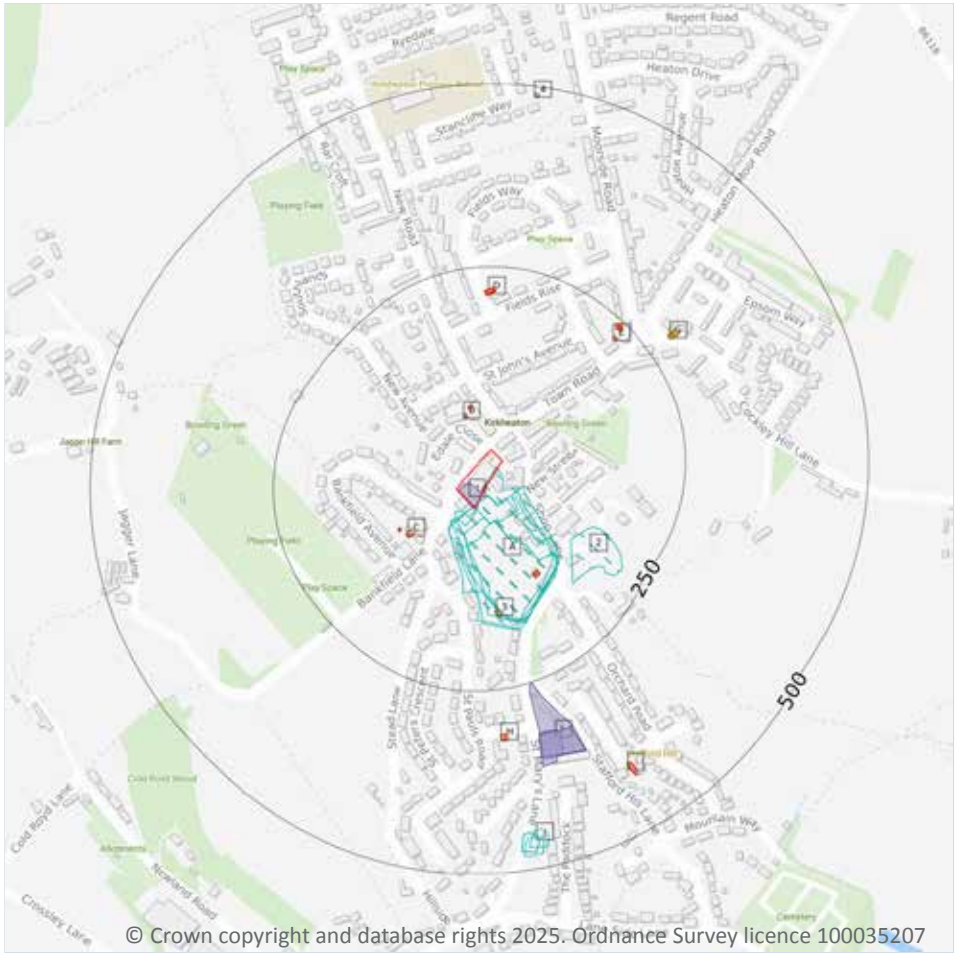
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	11

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 19 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Mill**	**1988**	**1534011**
A	**On site**	**Unspecified Mills**	**1948**	**1559660**
A	**On site**	**Unspecified Mill**	**1975**	**1534011**

ID	Location	Land Use	Date	Group ID
A	3m S	Unspecified Mills	1956	1552473
A	18m S	Unspecified Mills	1965	1509590
A	30m S	Unspecified Mills	1938	1514345
2	136m SE	Unspecified Pit	1888	1450141
J	448m S	Unspecified Heap	1956	1485805
J	449m S	Unspecified Heap	1938	1500720
J	449m S	Unspecified Heap	1938	1500720
J	456m S	Unspecified Heap	1948	1492268

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**7**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. 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 19 >**

ID	Location	Land Use	Date	Group ID
3	142m S	Tanks	1932	235565
G	283m NE	Unspecified Tank	1907	244586
G	283m NE	Unspecified Tank	1919	244586
G	283m NE	Unspecified Tank	1932	244586
G	289m NE	Unspecified Tank	1968	250805
G	289m NE	Unspecified Tank	1977	250805
4	485m N	Unspecified Tank	1907	239205

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	26

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 19 >**

ID	Location	Land Use	Date	Group ID
B	55m N	Electricity Substation	1971	143948
B	63m N	Electricity Substation	1984	153202
B	64m N	Electricity Substation	1993	153202
C	82m SW	Electricity Substation	1993	143966
C	93m SW	Electricity Substation	1984	149652
C	93m SW	Electricity Substation	1970	149652
A	118m SE	Electricity Substation	1970	155876
A	121m SE	Electricity Substation	1989	158725
D	211m N	Electricity Substation	1995	153995
D	211m N	Electricity Substation	1994	153995
D	211m N	Electricity Substation	1995	153995
D	212m N	Electricity Substation	1977	155979
D	213m N	Electricity Substation	1968	146621
D	213m N	Electricity Substation	1992	152151
D	213m N	Electricity Substation	1984	152151
E	225m NE	Electricity Substation	1977	143961
E	237m NE	Electricity Substation	1995	157351
E	237m NE	Electricity Substation	1995	157351
E	237m NE	Electricity Substation	1994	157351
E	237m NE	Electricity Substation	1992	157351
E	238m NE	Electricity Substation	1968	146740
E	238m NE	Electricity Substation	1984	157351
H	311m S	Electricity Substation	1989	161625

ID	Location	Land Use	Date	Group ID
H	312m S	Electricity Substation	1984	161625
I	405m SE	Electricity Substation	1970	149893
I	408m SE	Electricity Substation	1989	156197

This data is sourced from Ordnance Survey / Groundsure.

2.4 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. 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	**4**

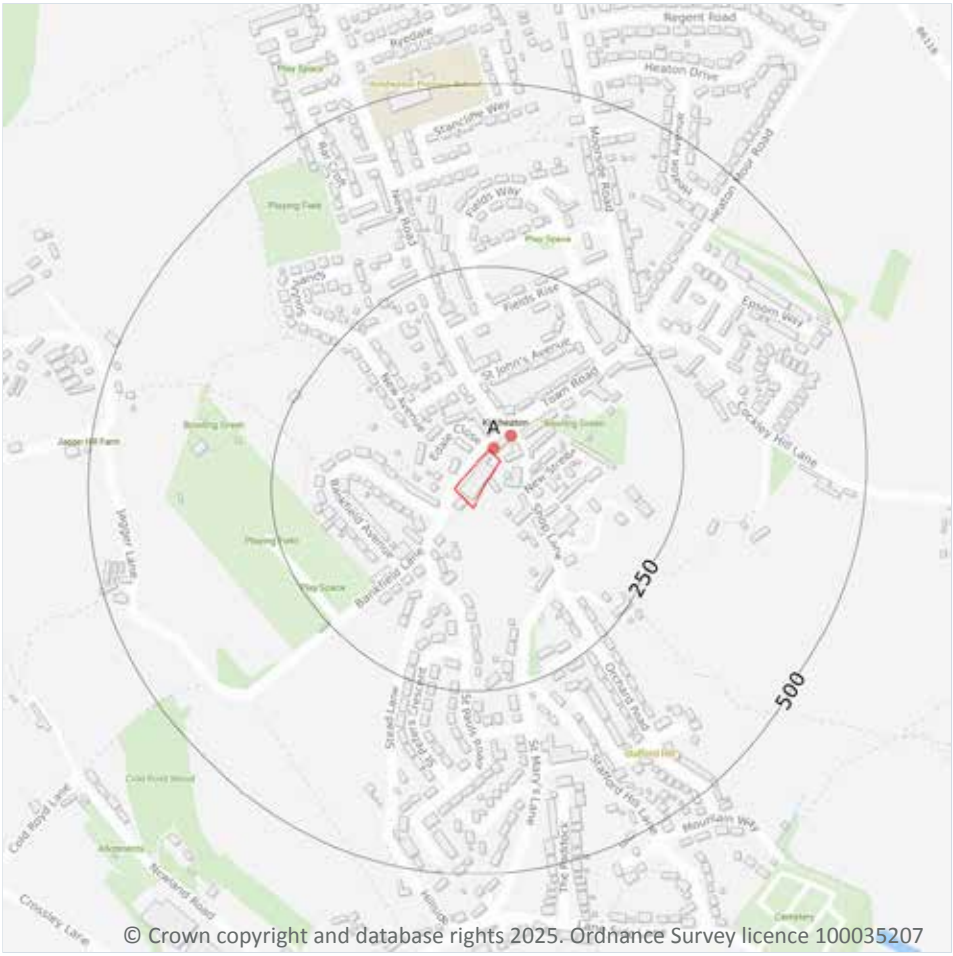
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Garage**	**1961**	**45623**
F	251m S	Garage	1989	51190
F	320m S	Garage	1970	47249
F	322m S	Garage	1984	51715

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

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	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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

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

3.5 Historical waste sites

Records within 500m	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	4

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.

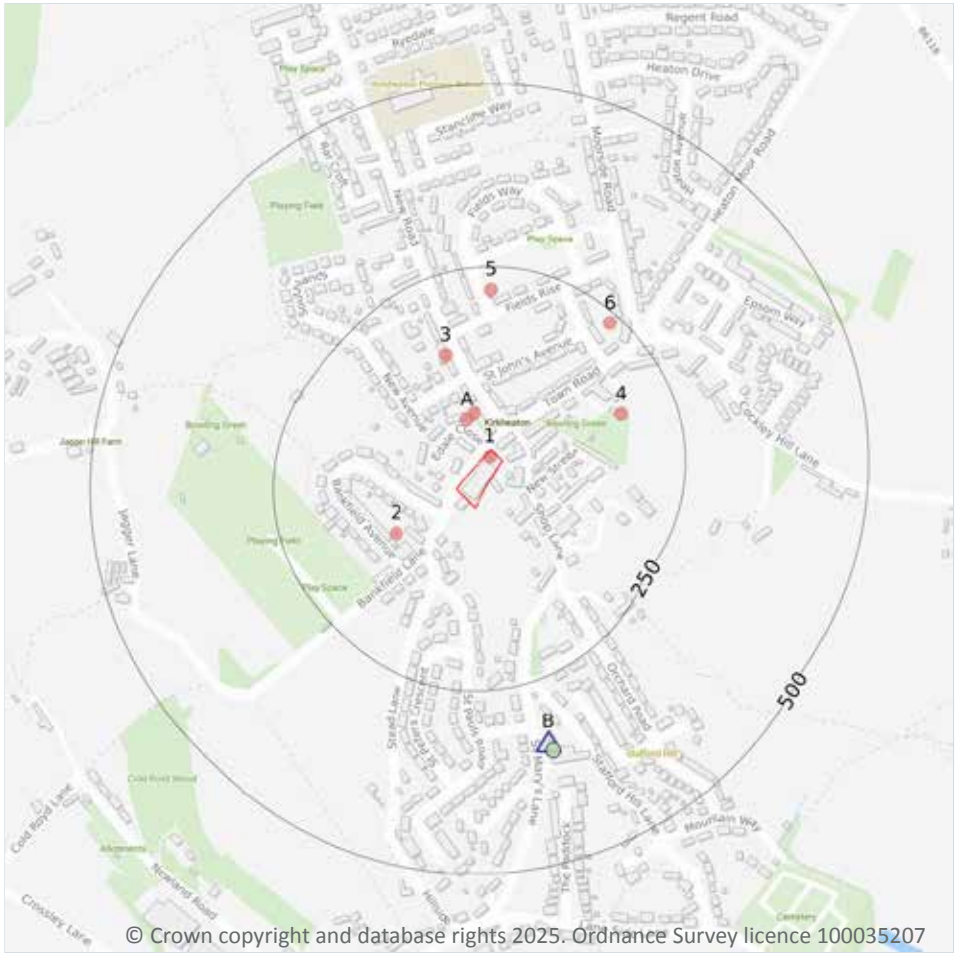
Features are displayed on the Waste and landfill map on **page 23 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	6m NE	1 Bankfield Lane Huddersfield West Yorkshire Hd5 0je	EPR/AF0831VP/A001	Treating waste exemption	Non-agricultural waste only	Sorting and de-naturing of controlled drugs for disposal

ID	Location	Site	Reference	Category	Sub-Category	Description
A	34m NE	1, Bankfield Lane, Huddersfield, Hd5 0je	WEX313695	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	34m NE	1, Bankfield Lane, Huddersfield, Hd5 0je	WEX183668	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	34m NE	1, Bankfield Lane, Huddersfield, Hd5 0je	WEX024867	Treating waste exemption	Not on a farm	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



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Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	8

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 26 >**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Kirkheaton Engineering**	**15, Bankfield Lane, Kirkheaton, Huddersfield, West Yorkshire, HD5 0JF**	**Industrial Engineers**	**Engineering Services**
A	53m N	Electricity Sub Station	West Yorkshire, HD5	Electrical Features	Infrastructure and Facilities
A	55m N	Walkers Garage	1c, New Road, Kirkheaton, Huddersfield, West Yorkshire, HD5 0JB	Vehicle Repair, Testing and Servicing	Repair and Servicing

ID	Location	Company	Address	Activity	Category
2	102m SW	Electricity Sub Station	West Yorkshire, HD5	Electrical Features	Infrastructure and Facilities
3	144m N	G M Walker Ltd	19, New Road, Kirkheaton, Huddersfield, West Yorkshire, HD5 0JB	Vehicle Repair, Testing and Servicing	Repair and Servicing
4	175m NE	Pumping Station	West Yorkshire, HD5	Water Pumping Stations	Industrial Features
5	219m N	Electricity Sub Station	West Yorkshire, HD5	Electrical Features	Infrastructure and Facilities
6	237m NE	Electricity Sub Station	West Yorkshire, HD5	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 26 >**

ID	Location	Company	Address	LPG	Status
B	334m S	OBSOLETE	St Marys Lane, Kirkheaton, Huddersfield, West Yorkshire, HD5 0EB	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	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.

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	0

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	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.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	2

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 26 >**

ID	Location	Details	
B	348m S	Incident Date: 12/07/2001 Incident Identification: 15762 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	348m S	Incident Date: 12/07/2001 Incident Identification: 15762 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer

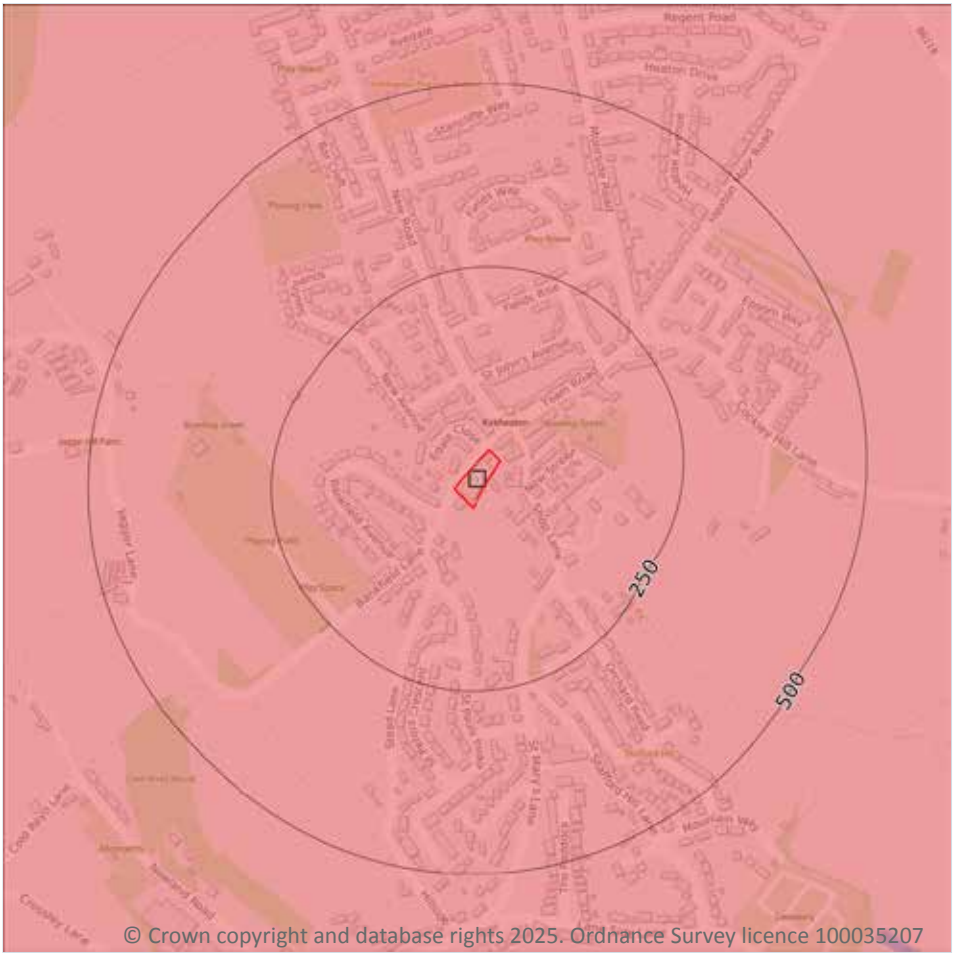
5.1 Superficial aquifer

Records within 500m	0

Aquifer status of groundwater held within superficial geology.

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	1

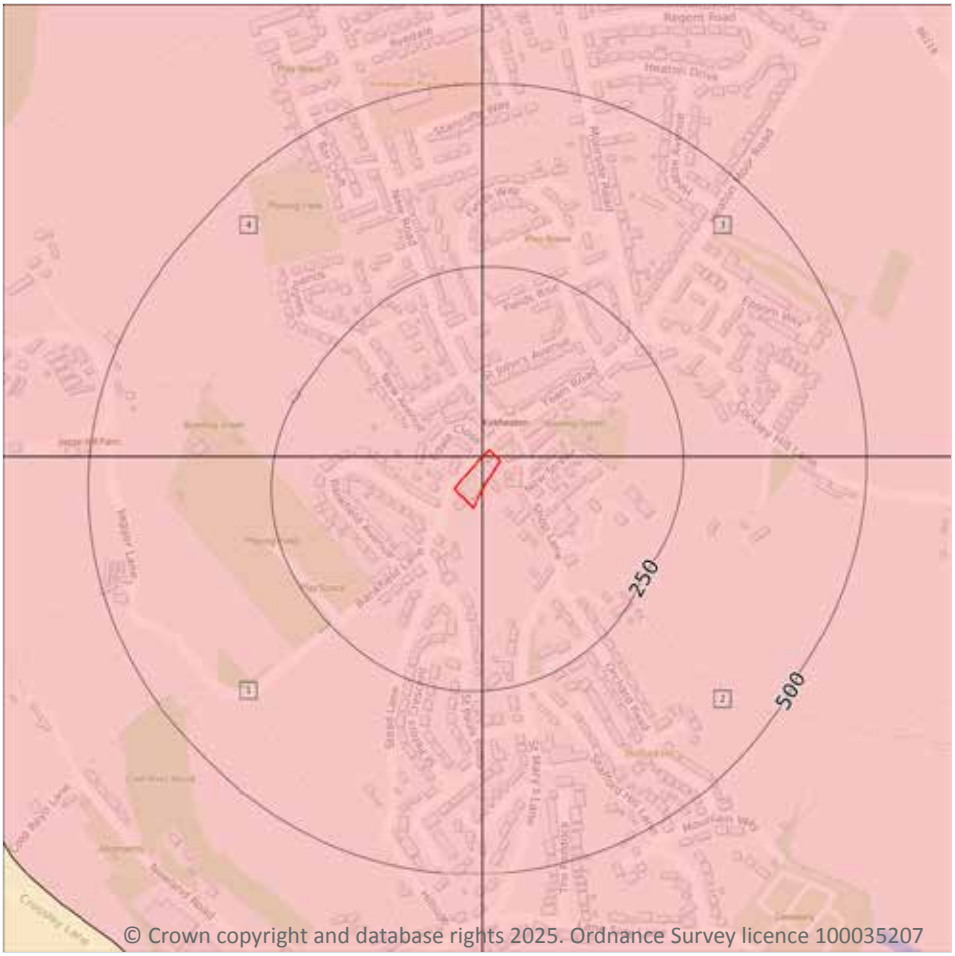
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 33 >**

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**

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	4

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 34 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

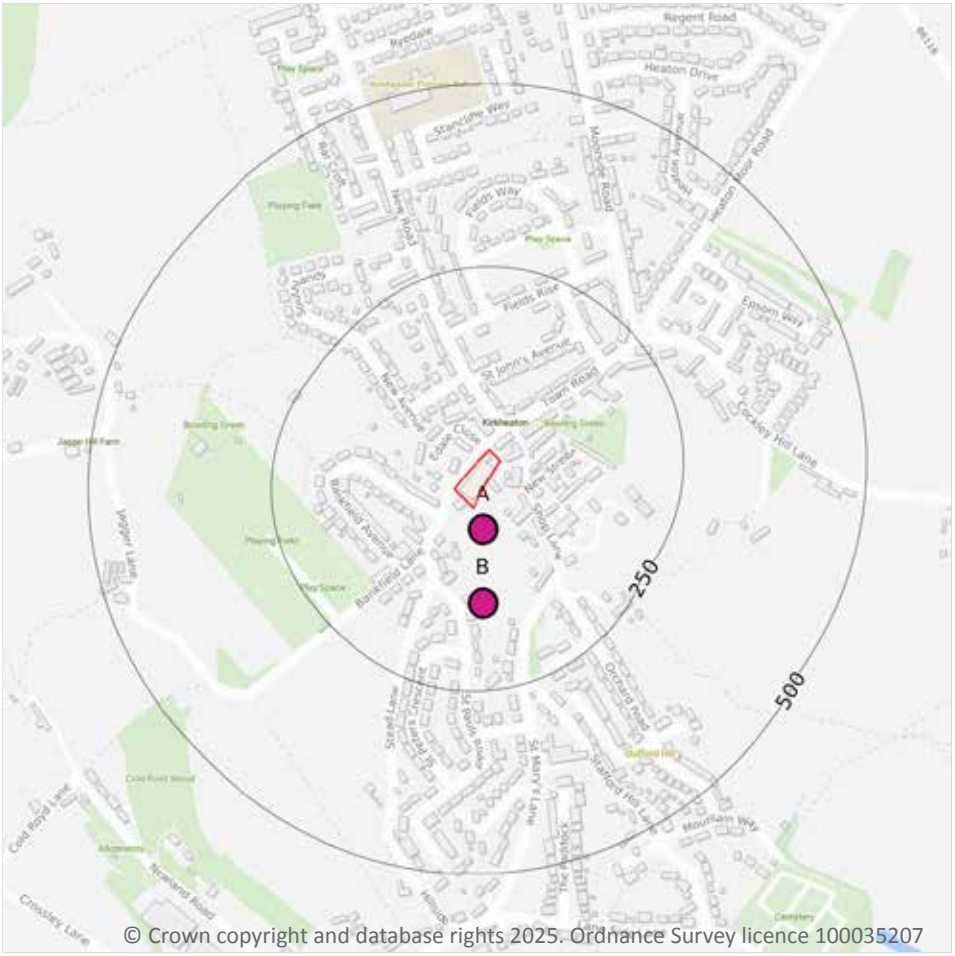
5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



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
- 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	35

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 36 >**

ID	Location	Details	
A	32m S	Status: Historical Licence No: 2/27/11/039 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: SPRING Data Type: Point Name: HUDDERSFIELD FINE WORSTEDS LTD (BRANCH OF MORRIS & CO LTD) Easting: 418000 Northing: 417900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1977 Version End Date: -
A	32m S	Status: Historical Licence No: 2/27/11/039 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: SPRING - KIRKHEATON MILLS Data Type: Point Name: HUDDERSFIELD FINE WORSTEDS LTD Easting: 418000 Northing: 417900	Annual Volume (m^3): 44005 Max Daily Volume (m^3): 180.022 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 17/05/2002 Version End Date: -
B	130m S	Status: Historical Licence No: 2/27/11/172 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: HUDDERSFIELD FINE WORSTEDS Easting: 418000 Northing: 417800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 30/10/1990 Expiry Date: - Issue No: 100 Version Start Date: 30/10/1990 Version End Date: -
B	130m S	Status: Historical Licence No: 2/27/11/172 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - KIRKHEATON Data Type: Point Name: HUDDERSFIELD FINE WORSTEDS LTD Easting: 418000 Northing: 417800	Annual Volume (m^3): 25000 Max Daily Volume (m^3): 163 Original Application No: - Original Start Date: 30/10/1990 Expiry Date: - Issue No: 101 Version Start Date: 17/05/2002 Version End Date: -

ID	Location	Details	
-	1207m NW	Status: Active Licence No: NE/027/0011/020 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE - ALLUVIUM - CW10 AT SYNGENTA Data Type: Point Name: AstraZeneca UK Ltd Easting: 416933 Northing: 418587	Annual Volume (m^3): 30660 Max Daily Volume (m^3): 84 Original Application No: NPS/WR/028379 Original Start Date: 17/12/2019 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 17/12/2019 Version End Date: -
-	1211m NW	Status: Active Licence No: NE/027/0011/020 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE - ALLUVIUM - CW09 AT SYNGENTA Data Type: Point Name: AstraZeneca UK Ltd Easting: 416928 Northing: 418586	Annual Volume (m^3): 30660 Max Daily Volume (m^3): 84 Original Application No: NPS/WR/028379 Original Start Date: 17/12/2019 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 17/12/2019 Version End Date: -
-	1214m NW	Status: Active Licence No: NE/027/0011/020 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE - ALLUVIUM - CW08 AT SYNGENTA Data Type: Point Name: AstraZeneca UK Ltd Easting: 416923 Northing: 418585	Annual Volume (m^3): 30660 Max Daily Volume (m^3): 84 Original Application No: NPS/WR/028379 Original Start Date: 17/12/2019 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 17/12/2019 Version End Date: -
-	1218m NW	Status: Active Licence No: NE/027/0011/020 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE - ALLUVIUM - CW07 AT SYNGENTA Data Type: Point Name: AstraZeneca UK Ltd Easting: 416918 Northing: 418584	Annual Volume (m^3): 30660 Max Daily Volume (m^3): 84 Original Application No: NPS/WR/028379 Original Start Date: 17/12/2019 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 17/12/2019 Version End Date: -
-	1222m NW	Status: Active Licence No: NE/027/0011/020 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE - ALLUVIUM - CW06 AT SYNGENTA Data Type: Point Name: AstraZeneca UK Ltd Easting: 416913 Northing: 418583	Annual Volume (m^3): 30660 Max Daily Volume (m^3): 84 Original Application No: NPS/WR/028379 Original Start Date: 17/12/2019 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 17/12/2019 Version End Date: -

ID	Location	Details	
-	1226m NW	Status: Active Licence No: NE/027/0011/020 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE - ALLUVIUM - CW05 AT SYNGENTA Data Type: Point Name: AstraZeneca UK Ltd Easting: 416908 Northing: 418582	Annual Volume (m^3): 30660 Max Daily Volume (m^3): 84 Original Application No: NPS/WR/028379 Original Start Date: 17/12/2019 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 17/12/2019 Version End Date: -
-	1229m NW	Status: Active Licence No: NE/027/0011/020 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE - ALLUVIUM - CW04 AT SYNGENTA Data Type: Point Name: AstraZeneca UK Ltd Easting: 416903 Northing: 418581	Annual Volume (m^3): 30660 Max Daily Volume (m^3): 84 Original Application No: NPS/WR/028379 Original Start Date: 17/12/2019 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 17/12/2019 Version End Date: -
-	1233m NW	Status: Active Licence No: NE/027/0011/020 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE - ALLUVIUM - CW03 AT SYNGENTA Data Type: Point Name: AstraZeneca UK Ltd Easting: 416898 Northing: 418580	Annual Volume (m^3): 30660 Max Daily Volume (m^3): 84 Original Application No: NPS/WR/028379 Original Start Date: 17/12/2019 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 17/12/2019 Version End Date: -
-	1237m NW	Status: Active Licence No: NE/027/0011/020 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE - ALLUVIUM - CW02 AT SYNGENTA Data Type: Point Name: AstraZeneca UK Ltd Easting: 416893 Northing: 418579	Annual Volume (m^3): 30660 Max Daily Volume (m^3): 84 Original Application No: NPS/WR/028379 Original Start Date: 17/12/2019 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 17/12/2019 Version End Date: -
-	1241m NW	Status: Active Licence No: NE/027/0011/020 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE - ALLUVIUM - CW01 AT SYNGENTA Data Type: Point Name: AstraZeneca UK Ltd Easting: 416888 Northing: 418578	Annual Volume (m^3): 30660 Max Daily Volume (m^3): 84 Original Application No: NPS/WR/028379 Original Start Date: 17/12/2019 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 17/12/2019 Version End Date: -

ID	Location	Details	
-	1252m NW	Status: Active Licence No: NE/027/0011/020 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE - ALLUVIUM - PW-1 AT SYNGENTA Data Type: Point Name: AstraZeneca UK Ltd Easting: 416896 Northing: 418613	Annual Volume (m^3): 30660 Max Daily Volume (m^3): 84 Original Application No: NPS/WR/028379 Original Start Date: 17/12/2019 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 17/12/2019 Version End Date: -
-	1286m W	Status: Historical Licence No: 2/27/11/060 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE X4 - CARBONIFEROUS MILLSTONE GRIT Data Type: Poly4 Name: ZENECA FINE CHEMICAL MANUFACTURING ORGANISATION Easting: 416690 Northing: 418150	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/01/1966 Version End Date: -
-	1286m W	Status: Historical Licence No: 2/27/11/060 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 1 - MILLSTONE GRIT - HUDDERSFIELD Data Type: Point Name: SYNGENTA LTD Easting: 416690 Northing: 418150	Annual Volume (m^3): 881941 Max Daily Volume (m^3): 1091.06 Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 23/06/2017 Version End Date: -
-	1286m W	Status: Historical Licence No: 2/27/11/060 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE 1 - MILLSTONE GRIT - HUDDERSFIELD Data Type: Point Name: SYNGENTA LTD Easting: 416690 Northing: 418150	Annual Volume (m^3): 881941 Max Daily Volume (m^3): 1091.06 Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 23/06/2017 Version End Date: -

ID	Location	Details	
-	1297m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE R6-BH-402 Data Type: Point Name: SYNGENTA LTD Easting: 416896 Northing: 418695	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -
-	1298m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE MW5 Data Type: Point Name: SYNGENTA LTD Easting: 416915 Northing: 418724	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -
-	1302m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE R5-BH-204 Data Type: Point Name: SYNGENTA LTD Easting: 416859 Northing: 418649	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -
-	1304m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE R6-BH-401 Data Type: Point Name: SYNGENTA LTD Easting: 416881 Northing: 418686	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -
-	1305m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE R5-BH-205 Data Type: Point Name: SYNGENTA LTD Easting: 416868 Northing: 418667	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -

ID	Location	Details	
-	1312m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE R5-BH-103 Data Type: Point Name: SYNGENTA LTD Easting: 416845 Northing: 418645	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -
-	1314m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE R6-BH-301 Data Type: Point Name: SYNGENTA LTD Easting: 416917 Northing: 418753	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -
-	1321m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE R5-BH-203 Data Type: Point Name: SYNGENTA LTD Easting: 416833 Northing: 418643	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -
-	1329m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE R5-BH-202 Data Type: Point Name: SYNGENTA LTD Easting: 416815 Northing: 418627	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -
-	1339m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE R6-BH-304 Data Type: Point Name: SYNGENTA LTD Easting: 416902 Northing: 418775	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -

ID	Location	Details	
-	1348m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE R5-BH-201 Data Type: Point Name: SYNGENTA LTD Easting: 416789 Northing: 418620	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -
-	1355m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE R6-BH-403 Data Type: Point Name: SYNGENTA LTD Easting: 416902 Northing: 418800	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -
-	1370m NW	Status: Active Licence No: NE/027/0011/036 Details: Pollution Remediation Direct Source: GROUNDWATERS Point: BOREHOLE R6-BH-404 Data Type: Point Name: SYNGENTA LTD Easting: 416889 Northing: 418808	Annual Volume (m^3): 63875 Max Daily Volume (m^3): 193 Original Application No: NPS/WR/038980 Original Start Date: 23/10/2023 Expiry Date: 31/03/2039 Issue No: 1 Version Start Date: 23/10/2023 Version End Date: -
-	1553m S	Status: Historical Licence No: 2/27/11/188 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - LOWER COAL MEASURES - HUDDERSFIELD Data Type: Point Name: Total Fitness 2010 Ltd Easting: 417880 Northing: 416380	Annual Volume (m^3): 60000 Max Daily Volume (m^3): 250 Original Application No: - Original Start Date: 16/07/2001 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 08/02/2012 Version End Date: -

ID	Location	Details	
-	1560m S	Status: Historical Licence No: 2/27/11/188/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - LOWER COAL MEASURES - HUDDERSFIELD Data Type: Point Name: Total Fitness Health Clubs Ltd Easting: 417876 Northing: 416373	Annual Volume (m^3): 31000 Max Daily Volume (m^3): 250 Original Application No: NPS/WR/018037 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1610m W	Status: Historical Licence No: 2/27/11/060 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: GROUNDWATERS Point: BOREHOLE 2 - MILLSTONE GRIT - HUDDERSFIELD Data Type: Point Name: SYNGENTA LTD Easting: 416370 Northing: 418200	Annual Volume (m^3): 881941 Max Daily Volume (m^3): 1091.06 Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 23/06/2017 Version End Date: -
-	1610m W	Status: Historical Licence No: 2/27/11/060 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE 2 - MILLSTONE GRIT - HUDDERSFIELD Data Type: Point Name: SYNGENTA LTD Easting: 416370 Northing: 418200	Annual Volume (m^3): 881941 Max Daily Volume (m^3): 1091.06 Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 23/06/2017 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**13**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 36 >**

ID	Location	Details	
-	1291m W	Status: Active Licence No: 2/27/11/059 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: RIVER COLNE & TRIBUTARIES - POINT 1 - DALTON WORKS Data Type: Point Name: SYNGENTA LTD Easting: 416690 Northing: 418180	Annual Volume (m^3): 24600000 Max Daily Volume (m^3): 67200 Original Application No: 665 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 25/07/2002 Version End Date: -
-	1291m W	Status: Active Licence No: 2/27/11/059 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE & TRIBUTARIES - POINT 1 - DALTON WORKS Data Type: Point Name: SYNGENTA LTD Easting: 416690 Northing: 418180	Annual Volume (m^3): 24600000 Max Daily Volume (m^3): 67200 Original Application No: 665 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 25/07/2002 Version End Date: -
-	1291m W	Status: Historical Licence No: 2/27/11/059 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: RIVER COLNE - DALTON WORKS HUDDERSFIELD Data Type: Line Name: ZENECA FINE CHEMICAL MANUFACTURING ORGANISATION Easting: 416660 Northing: 418270	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/04/1985 Version End Date: -
-	1337m W	Status: Active Licence No: 2/27/11/059 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: RIVER COLNE & TRIBUTARIES - POINT 2 - DALTON WORKS Data Type: Point Name: SYNGENTA LTD Easting: 416690 Northing: 418370	Annual Volume (m^3): 24600000 Max Daily Volume (m^3): 67200 Original Application No: 665 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 25/07/2002 Version End Date: -

ID	Location	Details	
-	1337m W	Status: Active Licence No: 2/27/11/059 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE & TRIBUTARIES - POINT 2 - DALTON WORKS Data Type: Point Name: SYNGENTA LTD Easting: 416690 Northing: 418370	Annual Volume (m^3): 24600000 Max Daily Volume (m^3): 67200 Original Application No: 665 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 25/07/2002 Version End Date: -
-	1338m W	Status: Historical Licence No: 2/27/11/059 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Poly3 Name: ZENECA FINE CHEMICAL MANUFACTURING ORGANISATION Easting: 416660 Northing: 418270	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/04/1985 Version End Date: -
-	1339m W	Status: Active Licence No: 2/27/11/059 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: RIVER COLNE AND TRIBUTARIES POINT 3 - DALTON WORKS Data Type: Point Name: SYNGENTA LTD Easting: 416660 Northing: 418270	Annual Volume (m^3): 24600000 Max Daily Volume (m^3): 67200 Original Application No: 665 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 25/07/2002 Version End Date: -
-	1339m W	Status: Active Licence No: 2/27/11/059 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE AND TRIBUTARIES POINT 3 - DALTON WORKS Data Type: Point Name: SYNGENTA LTD Easting: 416660 Northing: 418270	Annual Volume (m^3): 24600000 Max Daily Volume (m^3): 67200 Original Application No: 665 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 25/07/2002 Version End Date: -

ID	Location	Details	
-	1440m NW	Status: Historical Licence No: 2/27/11/162 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: YORKSHIRE WATER SERVICES LTD Easting: 417200 Northing: 419200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 02/03/1977 Expiry Date: - Issue No: 100 Version Start Date: 02/03/1977 Version End Date: -
-	1467m NW	Status: Active Licence No: 2/27/11/059 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: RIVER COLNE & TRIBUTARIES - POINT 4 - DALTON WORKS Data Type: Point Name: SYNGENTA LTD Easting: 416830 Northing: 418890	Annual Volume (m^3): 24600000 Max Daily Volume (m^3): 67200 Original Application No: 665 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 25/07/2002 Version End Date: -
-	1467m NW	Status: Active Licence No: 2/27/11/059 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE & TRIBUTARIES - POINT 4 - DALTON WORKS Data Type: Point Name: SYNGENTA LTD Easting: 416830 Northing: 418890	Annual Volume (m^3): 24600000 Max Daily Volume (m^3): 67200 Original Application No: 665 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 25/07/2002 Version End Date: -
-	1671m W	Status: Active Licence No: 2/27/11/059 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER COLNE AND TRIBUTARIES - POINT 5 - DALTON WORKS Data Type: Point Name: SYNGENTA LTD Easting: 416330 Northing: 418320	Annual Volume (m^3): 24600000 Max Daily Volume (m^3): 67200 Original Application No: 665 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 25/07/2002 Version End Date: -

ID	Location	Details	
-	1671m W	Status: Active Licence No: 2/27/11/059 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: RIVER COLNE AND TRIBUTARIES - POINT 5 - DALTON WORKS Data Type: Point Name: SYNGENTA LTD Easting: 416330 Northing: 418320	Annual Volume (m^3): 24600000 Max Daily Volume (m^3): 67200 Original Application No: 665 Original Start Date: 27/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 25/07/2002 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	**1**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 36 >**

ID	Location	Details	
-	1440m NW	Status: Historical Licence No: 2/27/11/162 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: RIVER COLNE Data Type: Point Name: YORKSHIRE WATER SERVICES LTD Easting: 417200 Northing: 419200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 02/03/1977 Expiry Date: - Issue No: 100 Version Start Date: 02/03/1977 Version End Date: -

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.

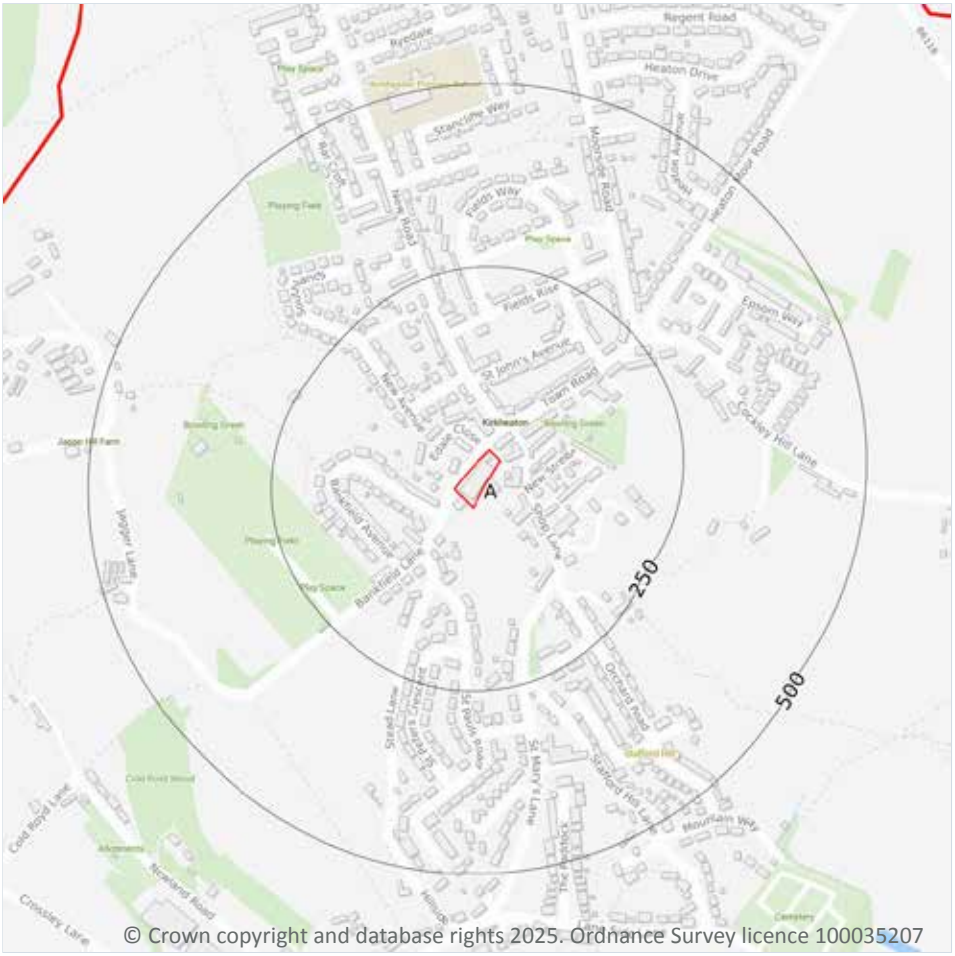
5.10 Source Protection Zones (confined aquifer)

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	0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

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

Features are displayed on the Hydrology map on **page 50 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**River**	**Fenay beck from Source to River Colne**	**GB104027063340**	**Colne and Holme**	**Aire and Calder**

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 50 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	695m S	River	Fenay beck from Source to River Colne	GB104027063340 ↗	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 50 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**On site**	**Aire & Calder Carb Limestone / Millstone Grit / Coal Measures.**	**GB40402G700400** ↗	**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



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Site Outline
Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, 0.1m - 0.3m**
Highest risk within 50m	**1 in 30 year, 0.3m - 1.0m**

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

Features are displayed on the Surface water flooding map on **page 56 >**

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

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



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Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

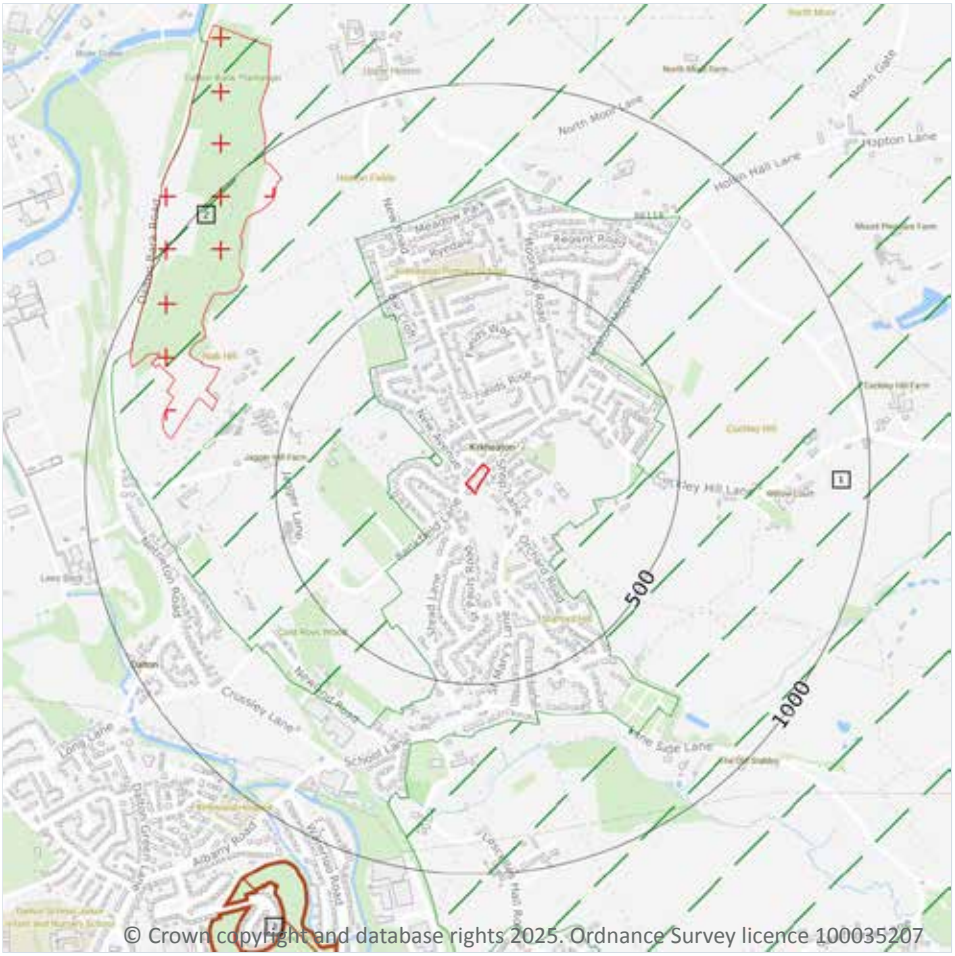
Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

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

Features are displayed on the Groundwater flooding map on **page 58 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Local Nature Reserves (LNR)

Designated Ancient Woodland

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	1

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 59 >**

ID	Location	Name	Data source
2	689m W	Dalton Bank	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	5

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

Features are displayed on the Environmental designations map on **page 59 >**

ID	Location	Name	Woodland Type
3	1088m SW	Round Wood	Ancient & Semi-Natural Woodland
-	1607m E	Hutchin Wood	Ancient & Semi-Natural Woodland
-	1667m N	Heaton Hall Wood	Ancient Replanted Woodland
-	1732m E	Hepworth Wood	Ancient Replanted Woodland
-	1885m E	Hepworth Wood	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 59 >**

ID	Location	Name	Local Authority name
1	84m W	South and West Yorkshire Green Belt	Kirklees

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.

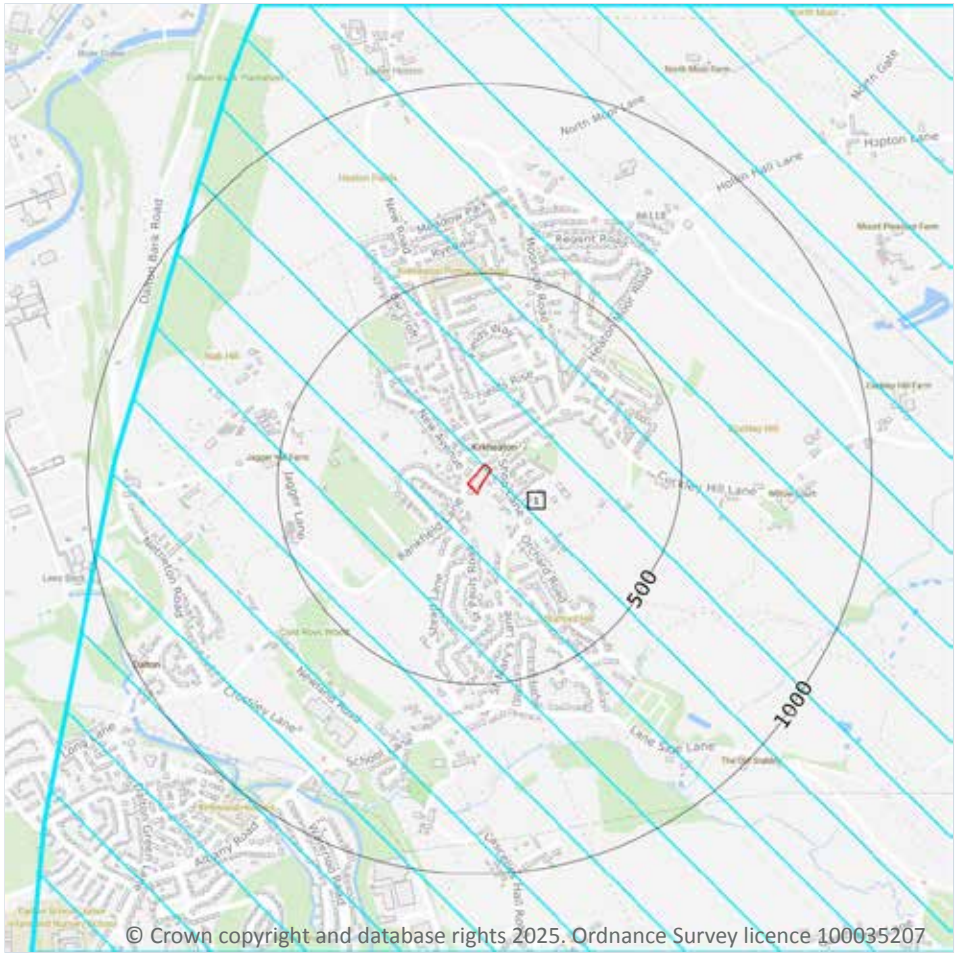
10.16 Nitrate Vulnerable Zones

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 64 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m². Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	0

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

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

11.5 Conservation Areas

Records within 250m	0

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.

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

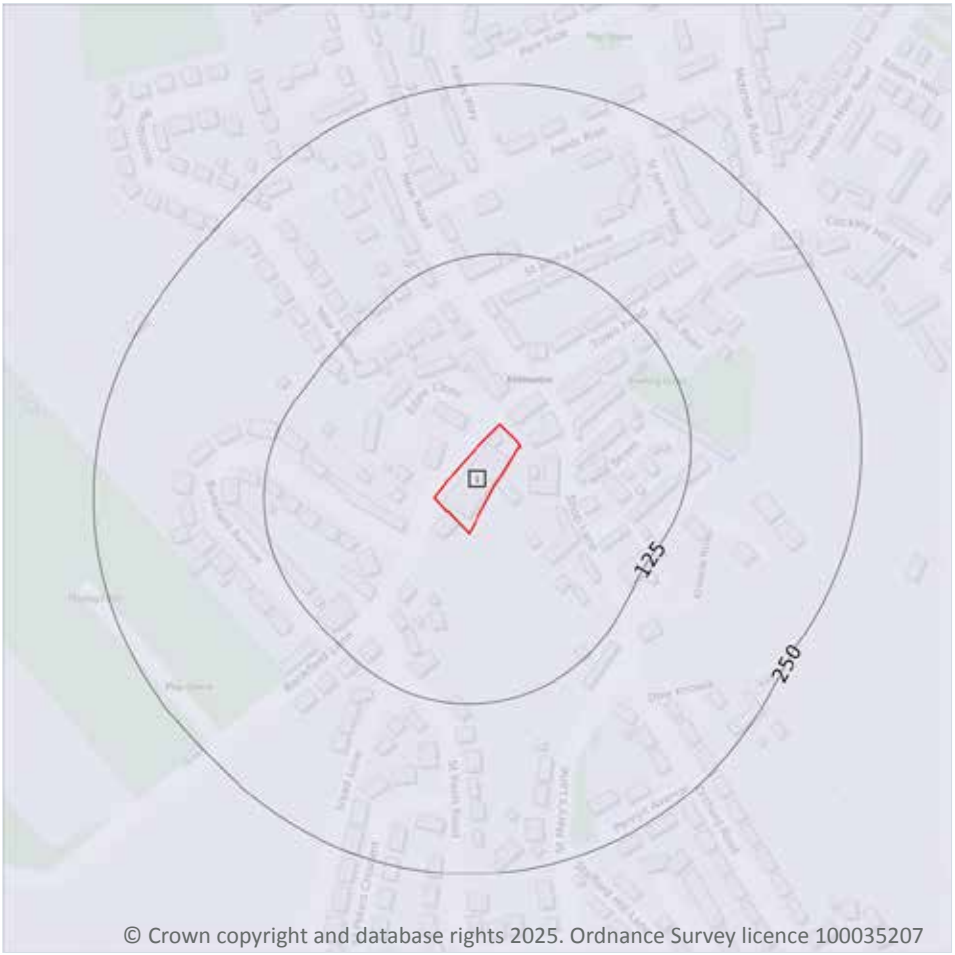
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



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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 68 >**

ID	Location	Classification	Description
1	On site	Grade 4	**Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.**

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



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Site Outline

Search buffers in metres (m)

- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders

Habitat Networks

- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	2

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

Features are displayed on the Habitat designations map on **page 70 >**

ID	Location	Main Habitat	Other habitats
1	134m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	191m SE	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	1

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.

Features are displayed on the Habitat designations map on **page 70 >**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
3	205m SW	NLUD Ref: 471801218; BRITPITS ref: 13855	Low	National Land Use Database - Previously Developed Land	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography

This data is sourced from Natural England.

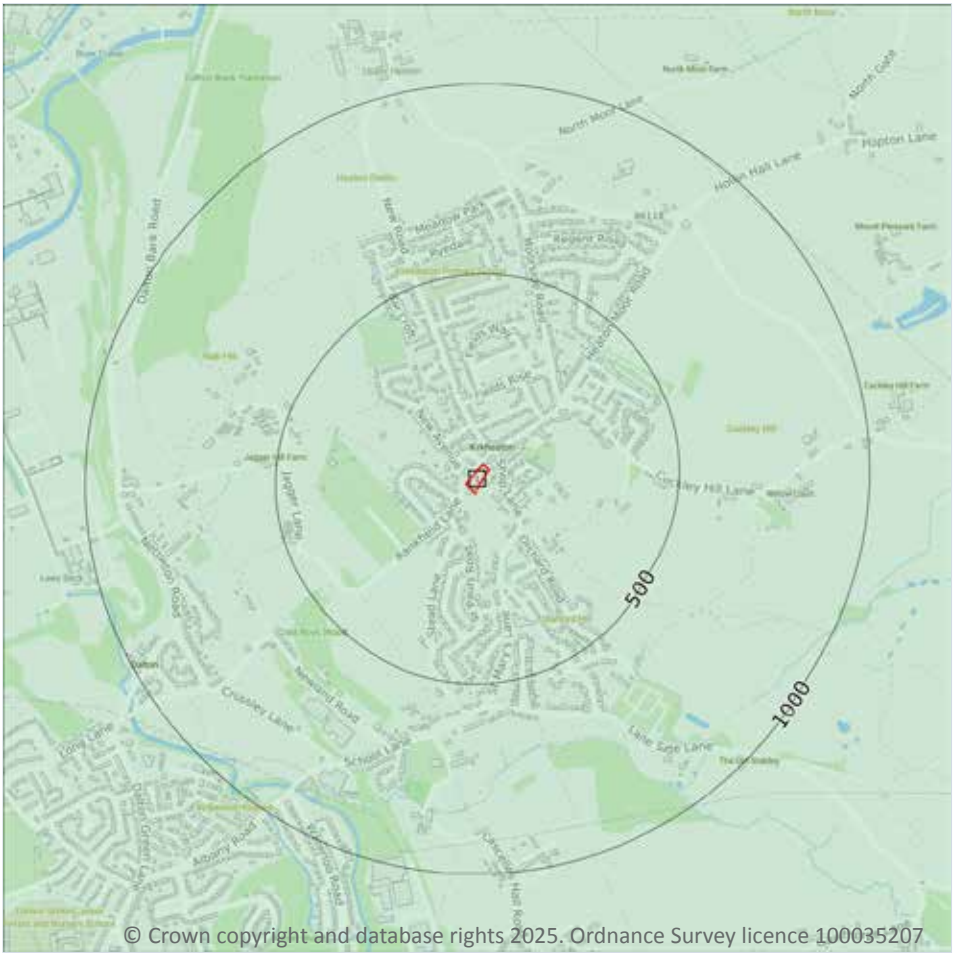
13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



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Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	1

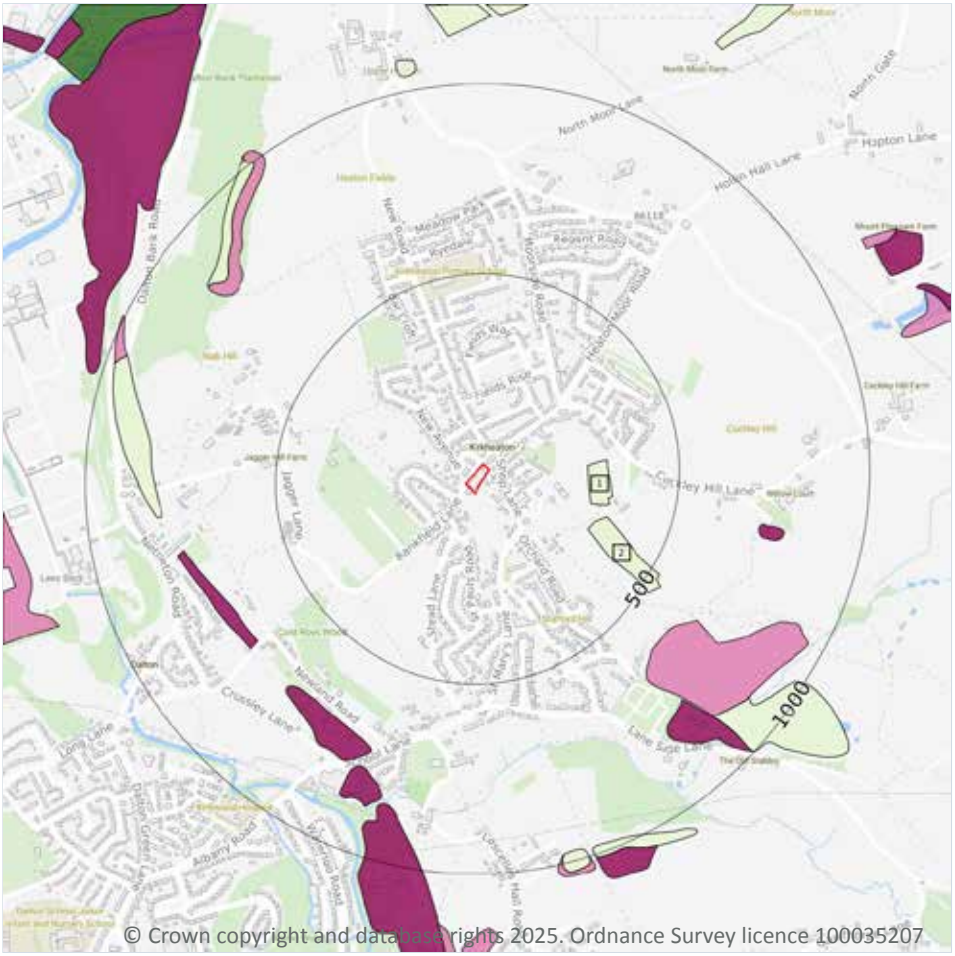
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 72 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE11NE**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m	2

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 73 >**

ID	Location	LEX Code	Description	Rock description
1	260m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
2	302m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

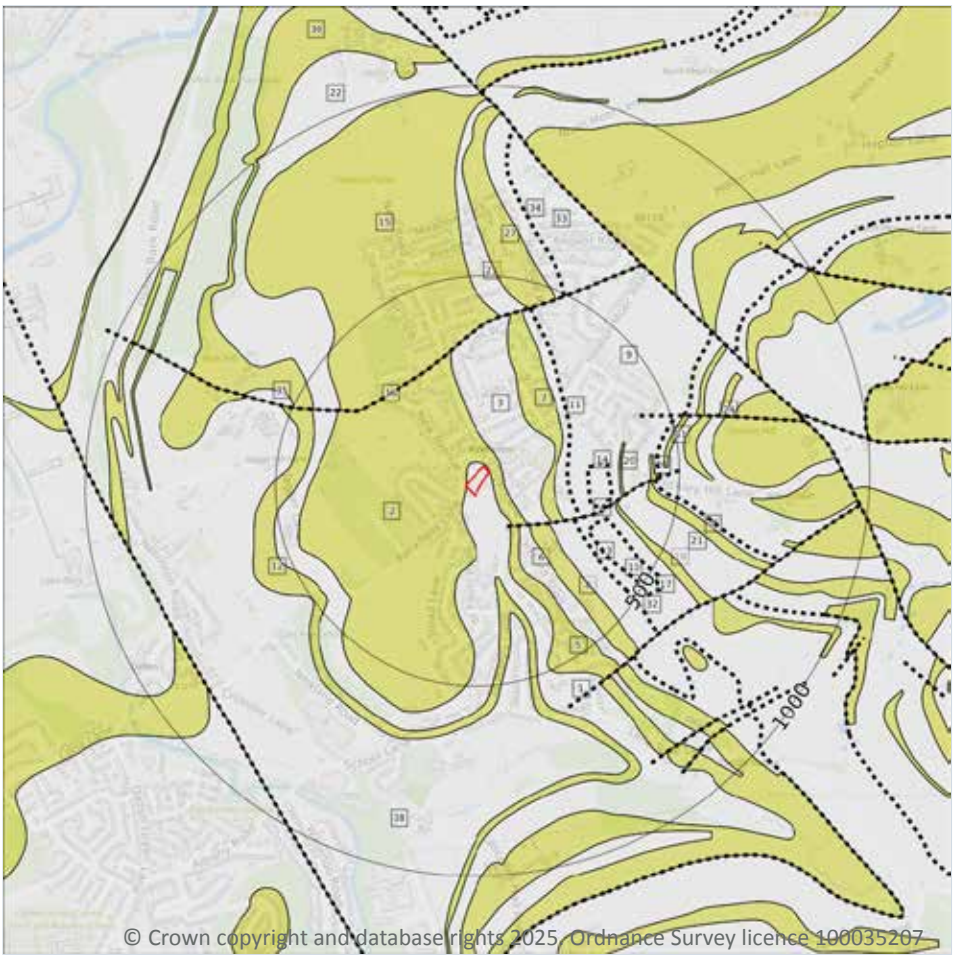
14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



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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	24

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 75 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone**	**Langsettian Sub-age**
2	**On site**	**GR-SDST**	**Grenoside Sandstone - Sandstone**	**Langsettian Sub-age**
3	33m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
5	121m SE	GR-SDST	Grenoside Sandstone - Sandstone	Langsettian Sub-age
6	139m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
7	145m E	GR-SDST	Grenoside Sandstone - Sandstone	Langsettian Sub-age
8	164m SE	GR-SDST	Grenoside Sandstone - Sandstone	Langsettian Sub-age
9	172m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10	204m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
12	221m S	GM-SDST	Greenmoor Rock - Sandstone	Langsettian Sub-age
15	292m NW	GR-SDST	Grenoside Sandstone - Sandstone	Langsettian Sub-age
18	320m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
19	340m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
20	341m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
21	345m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
22	383m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
23	397m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
25	420m E	TKS-SDST	Thick Stone - Sandstone	Langsettian Sub-age
26	424m E	TKS-SDST	Thick Stone - Sandstone	Langsettian Sub-age
27	434m N	GR-SDST	Grenoside Sandstone - Sandstone	Langsettian Sub-age
30	448m NW	GM-SDST	Greenmoor Rock - Sandstone	Langsettian Sub-age
31	463m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
33	478m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
35	497m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**11**

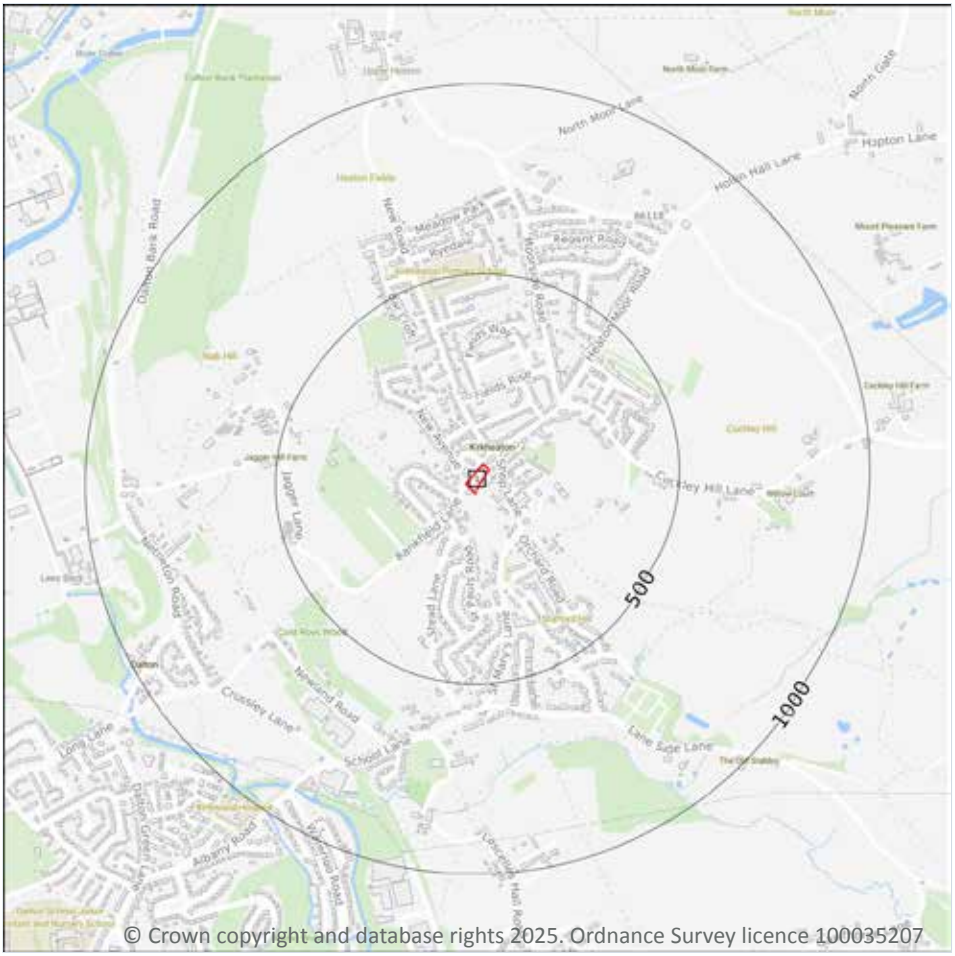
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 75 >**

ID	Location	Category	Description
4	111m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
11	206m E	ROCK	Coal seam, inferred
13	256m E	ROCK	Coal seam, observed
14	260m E	ROCK	Coal seam, observed
16	292m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
17	302m SE	ROCK	Coal seam, observed
24	410m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
28	438m E	ROCK	Coal seam, inferred
29	442m E	ROCK	Coal seam, inferred
32	464m SE	ROCK	Coal seam, inferred
34	496m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



15.1 50k Availability

Records within 500m	1

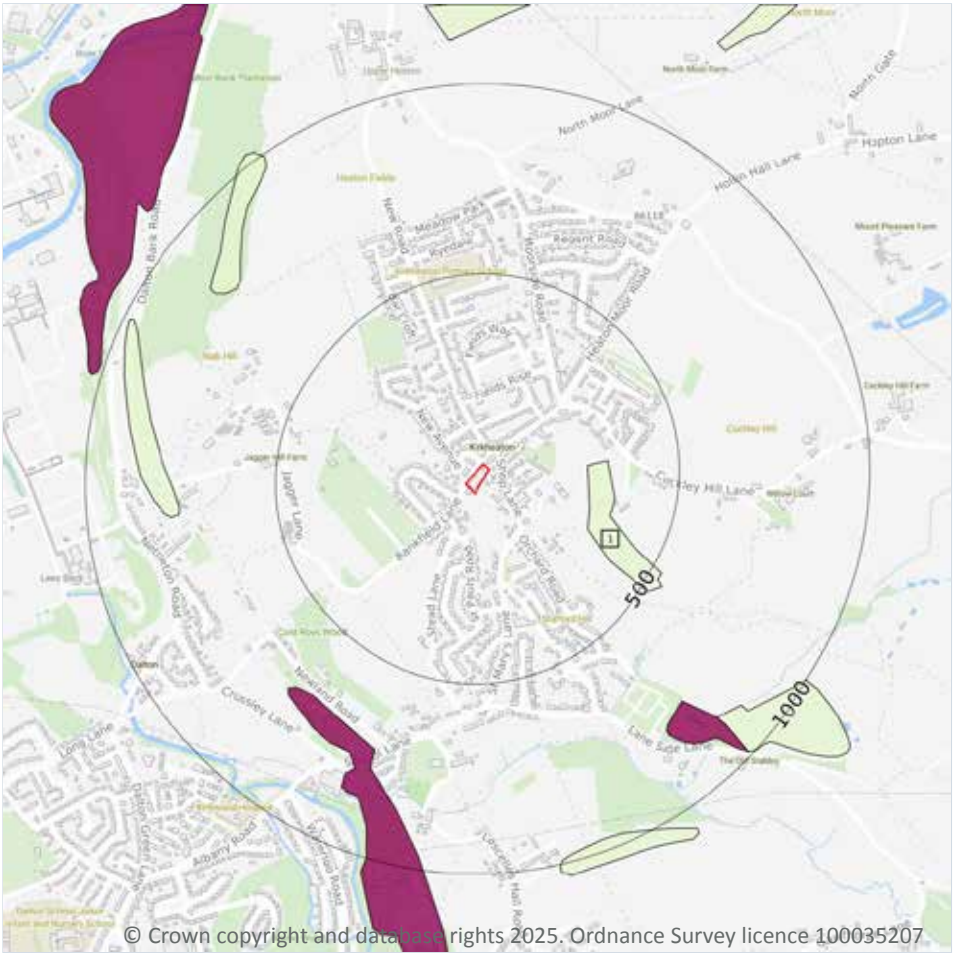
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 78 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW077_huddersfield_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	1

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 79 >**

ID	Location	LEX Code	Description	Rock description
1	259m E	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial

15.4 Superficial geology (50k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

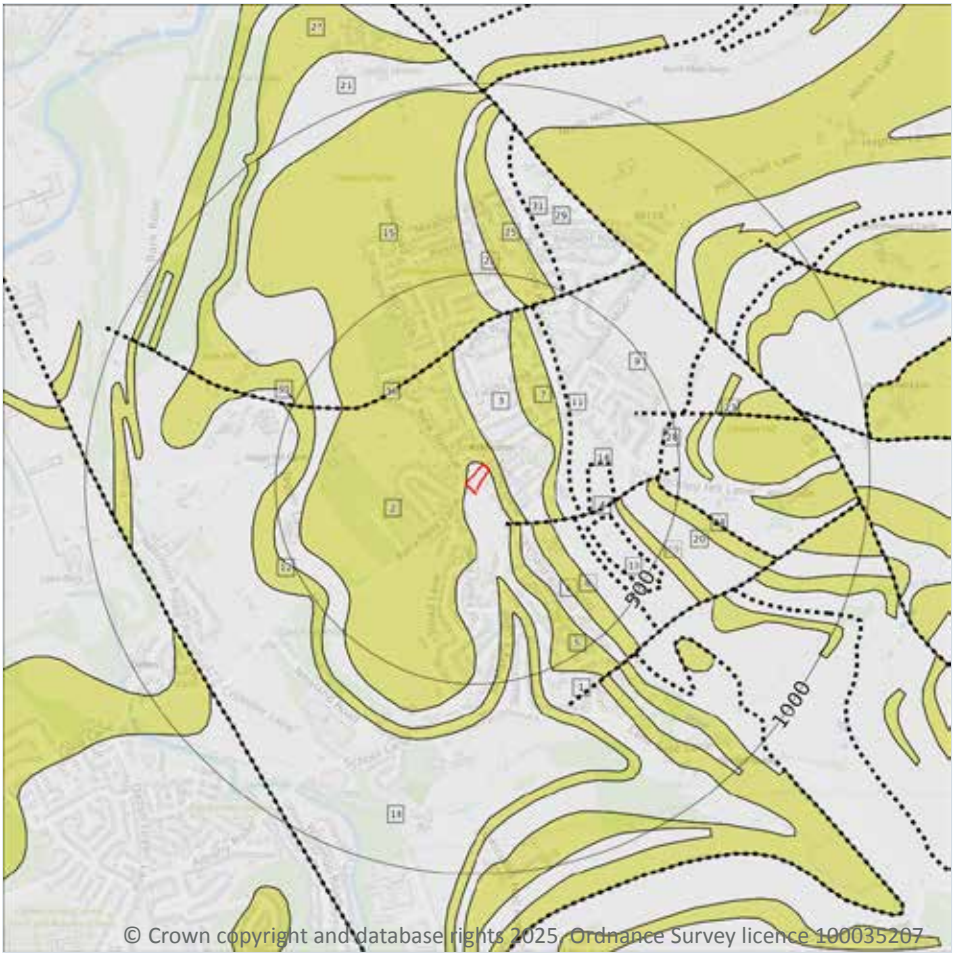
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



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Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	21

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 82 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PLCM-MDSS**	**PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE**	**WESTPHALIAN**
2	**On site**	**GR-SDST**	**GRENOSIDE SANDSTONE - SANDSTONE**	**WESTPHALIAN**
3	30m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
5	122m SE	GR-SDST	GRENOSIDE SANDSTONE - SANDSTONE	WESTPHALIAN
6	142m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
7	145m E	GR-SDST	GRENOSIDE SANDSTONE - SANDSTONE	WESTPHALIAN
8	167m SE	GR-SDST	GRENOSIDE SANDSTONE - SANDSTONE	WESTPHALIAN
9	176m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	206m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
12	227m S	GM-SDST	GREENMOOR ROCK - SANDSTONE	WESTPHALIAN
15	293m NW	GR-SDST	GRENOSIDE SANDSTONE - SANDSTONE	WESTPHALIAN
18	327m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	339m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
20	352m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
21	379m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
22	399m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
24	419m E	TKS-SDST	THICK STONE - SANDSTONE	WESTPHALIAN
25	430m N	GR-SDST	GRENOSIDE SANDSTONE - SANDSTONE	WESTPHALIAN
27	449m NW	GM-SDST	GREENMOOR ROCK - SANDSTONE	WESTPHALIAN
29	478m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
30	493m W	PLCM-MDSS	PENNINE LOWER 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	2

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**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	10

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 82 >**

ID	Location	Category	Description
4	112m SE	FAULT	Fault, inferred
11	211m E	ROCK	Coal seam, inferred
13	256m E	ROCK	Coal seam, inferred
14	259m E	ROCK	Coal seam, inferred
16	293m NW	FAULT	Fault, inferred
17	302m SE	ROCK	Coal seam, inferred
23	412m E	FAULT	Fault, inferred
26	441m E	ROCK	Coal seam, inferred
28	451m E	ROCK	Coal seam, inferred
31	494m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes

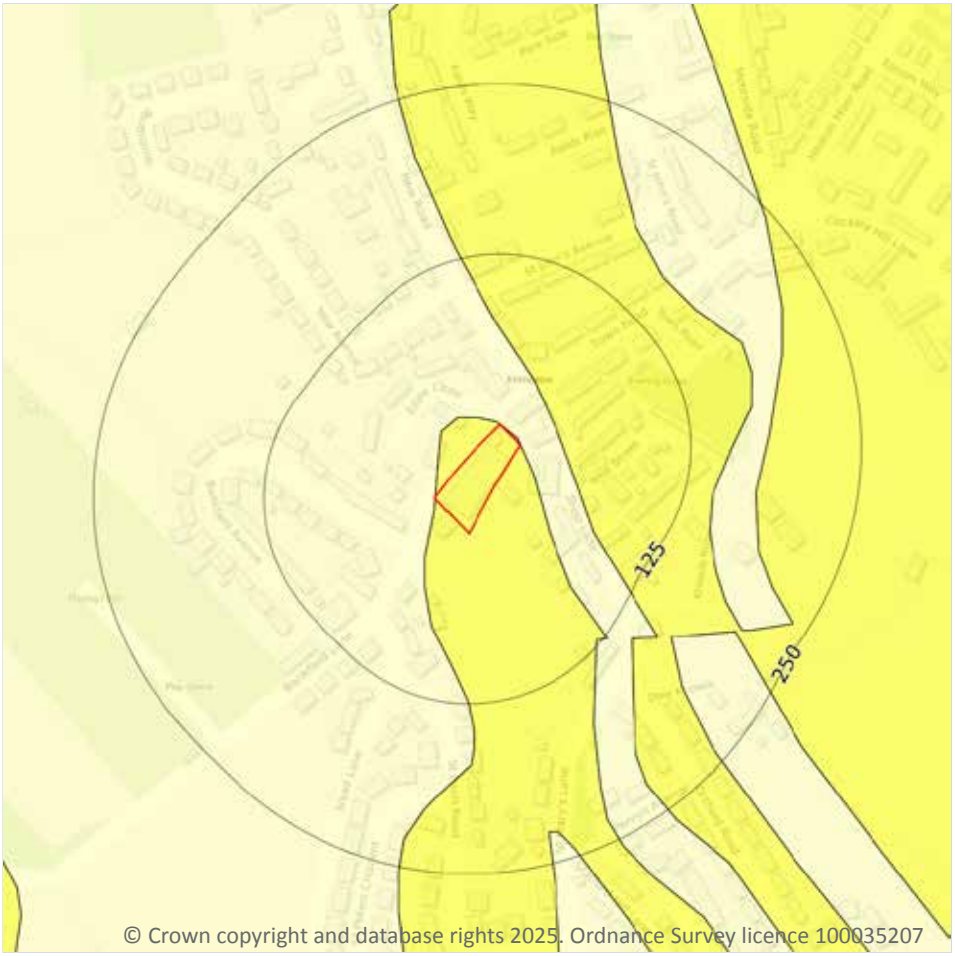
16.1 BGS Boreholes

Records within 250m	0

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.

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	2

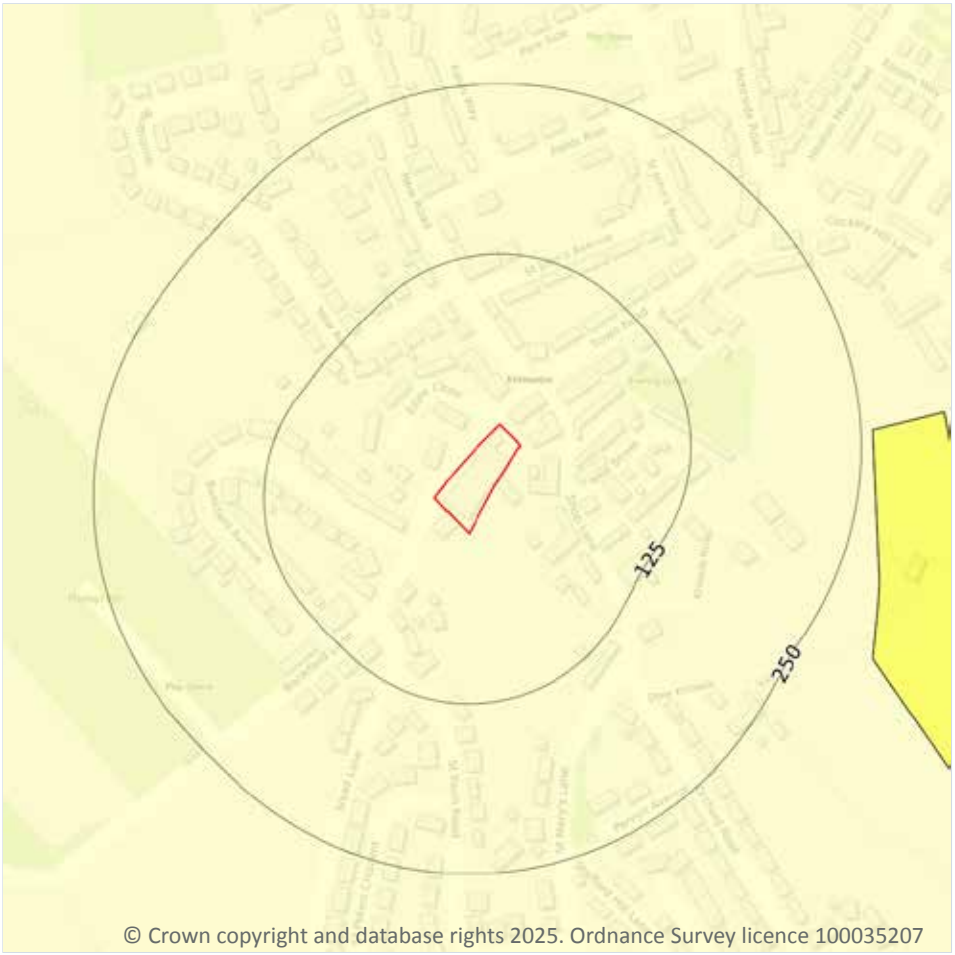
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 86 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	1

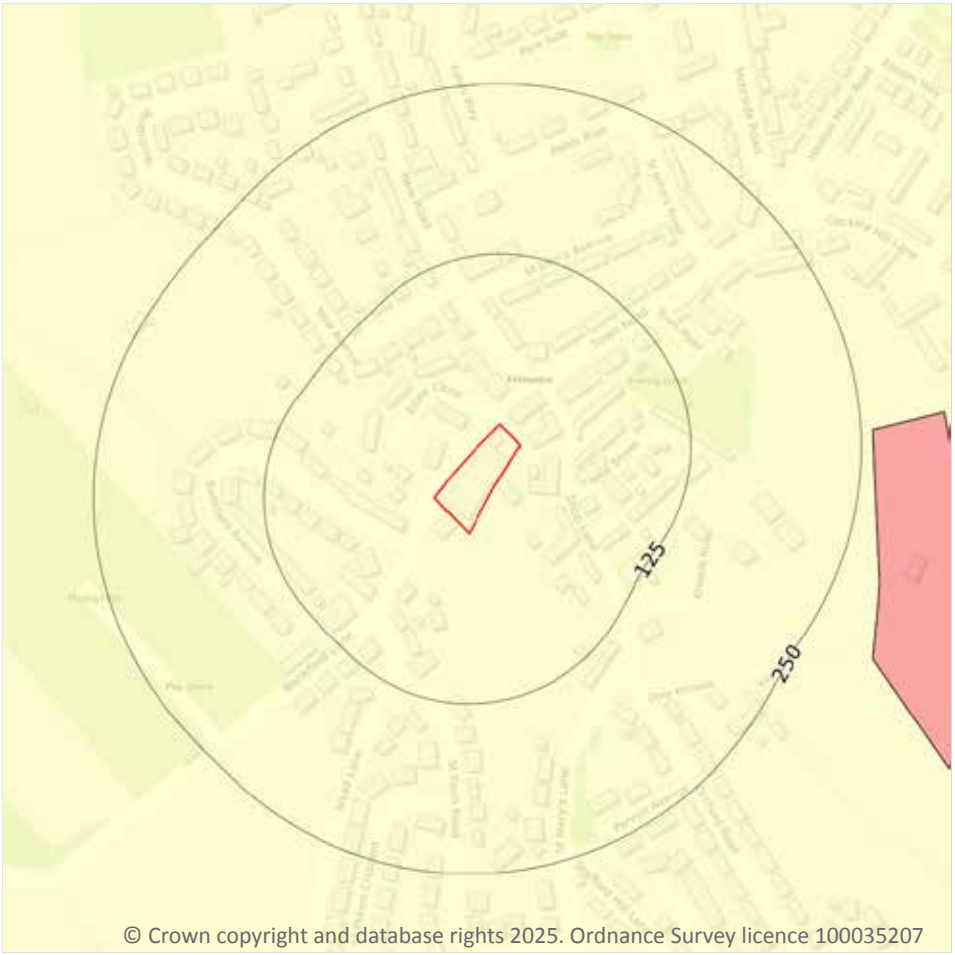
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 87 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	1

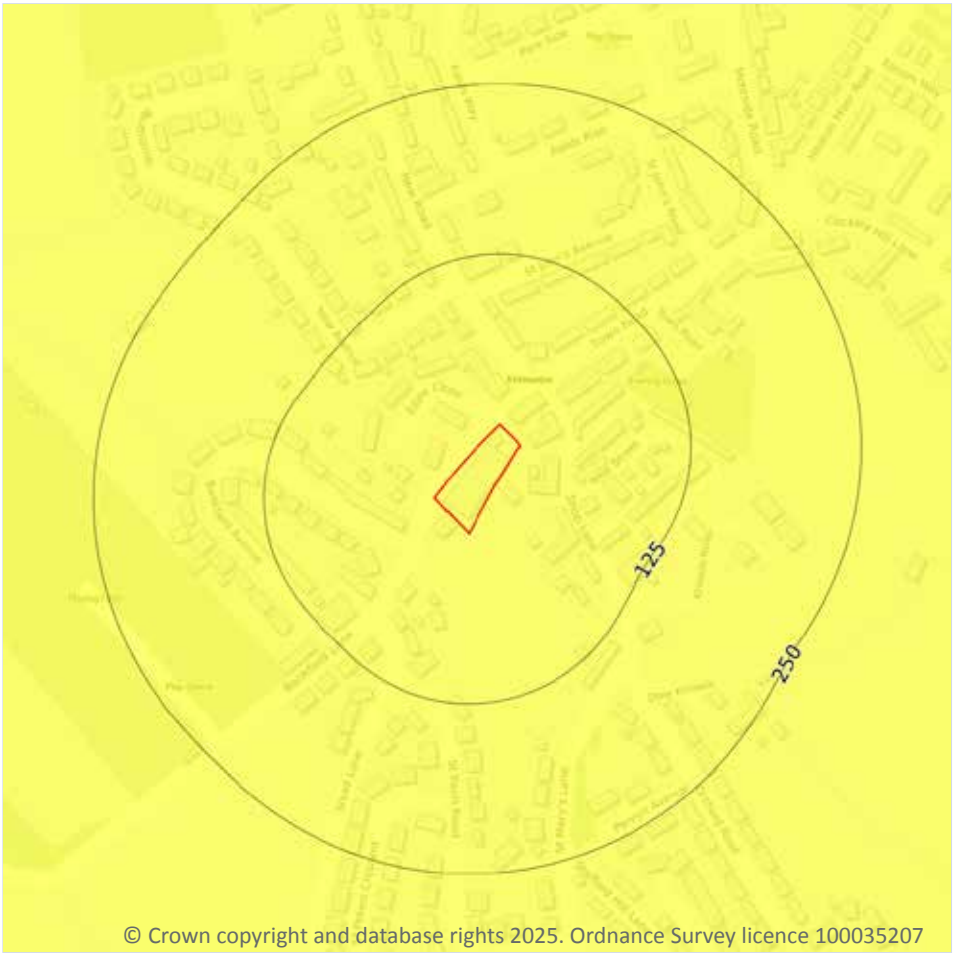
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 88 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

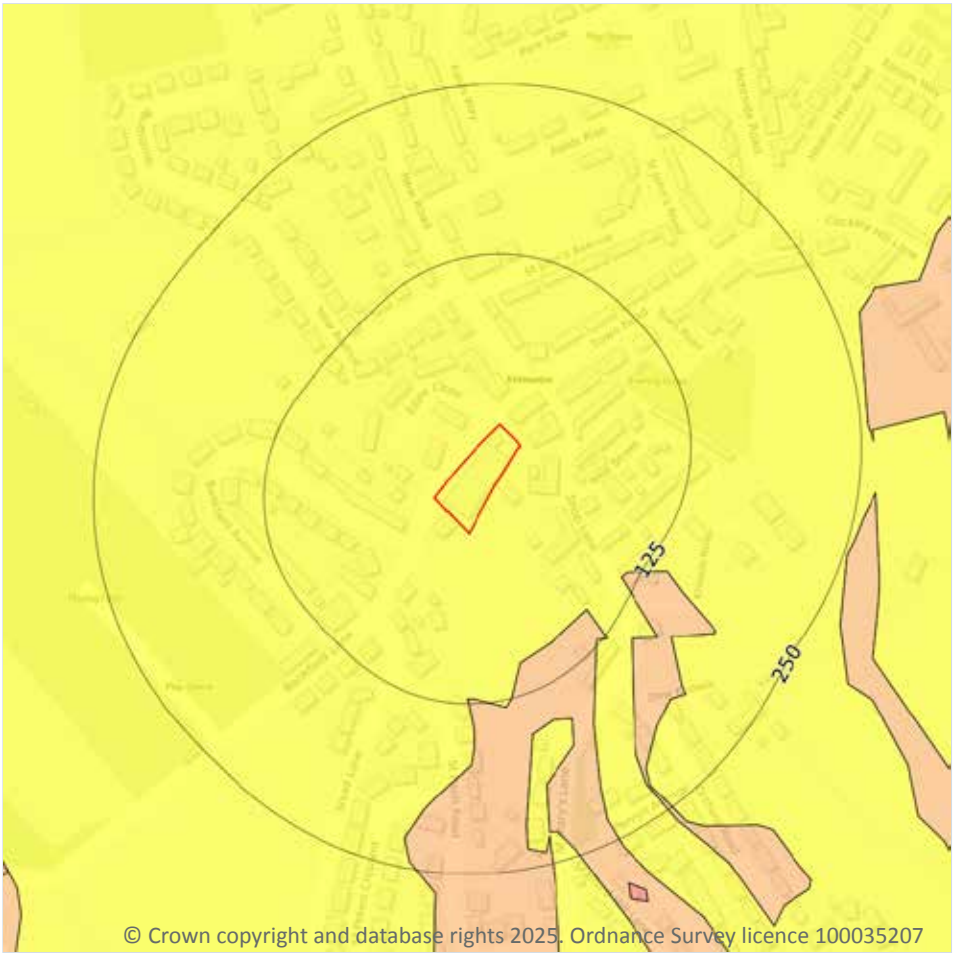
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 89 >**

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

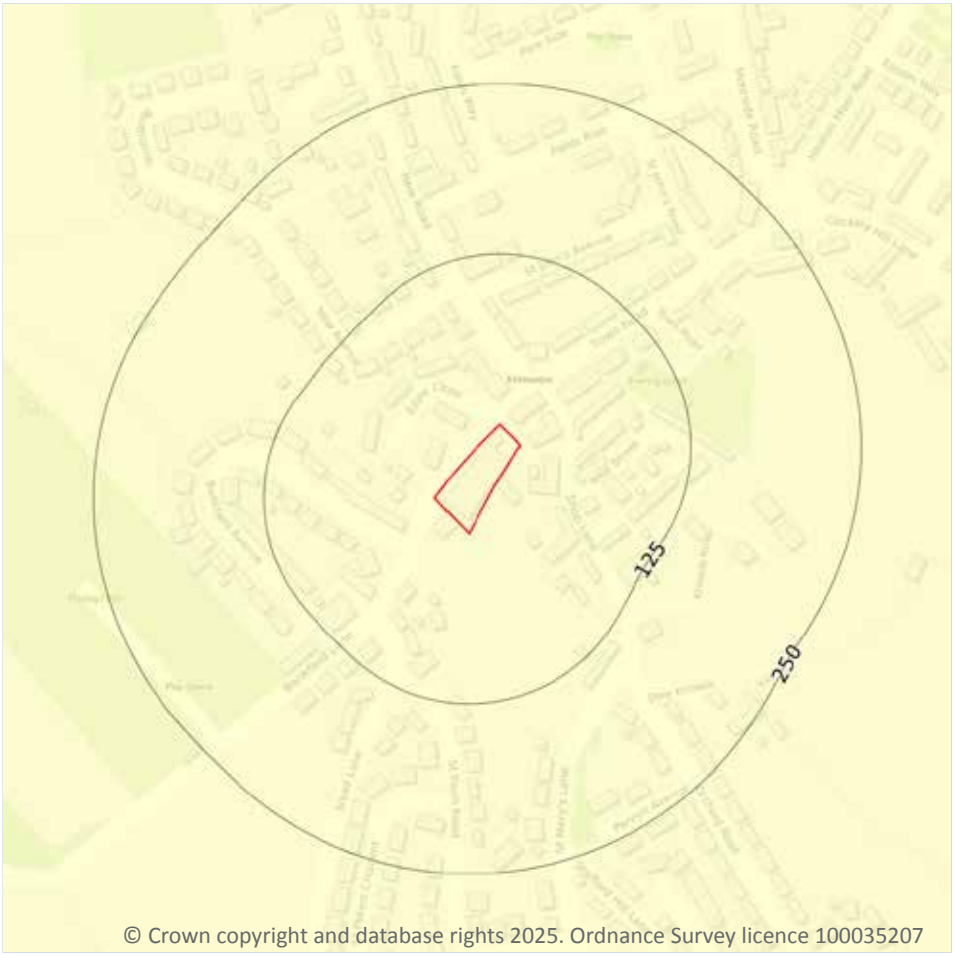
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 90 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

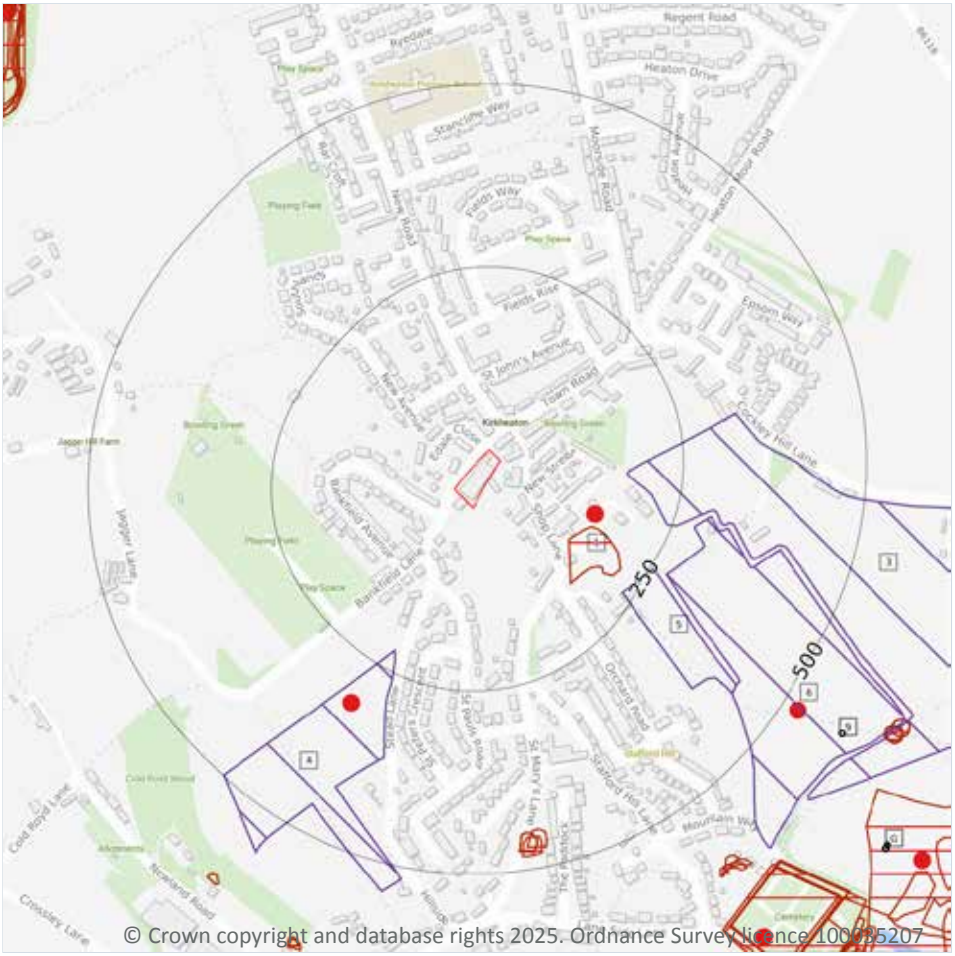
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 91 >**

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	2

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 93 >**

ID	Location	Details	Description
2	147m E	Name: Kirkheaton Address: Kirkheaton, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
7	314m SW	Name: Hill Top Address: Kirkheaton, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	**1**

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 93 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	136m SE	Unspecified Pit	1888	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	**6**

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 93 >**

ID	Location	Land Use	Year of mapping	Mapping scale
9	588m SE	Air Shaft	1904	1:10560
G	727m SE	Unspecified Disused Shaft	1965	1:10560
G	727m SE	Unspecified Old Shaft	1956	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
G	727m SE	Unspecified Disused Shaft	1975	1:10000
G	728m SE	Unspecified Old Shaft	1948	1:10560
G	728m SE	Air Shaft	1904	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	**0**

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	**4**

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.

Features are displayed on the Mining and ground workings map on **page 93 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
3	174m E	Kirkheaton	Fireclay	Surface mineral working	Refused	Not available
4	223m SW	Hill Top	Sandstone	Surface mineral working	Valid	Not available
5	234m SE	Kirkheaton	Fireclay	Surface mineral working	Refused	Not available
6	274m SE	Kirkheaton	Fireclay, coal (opencast)	Mineral working is partly on the surface and partly underground	Valid	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	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.

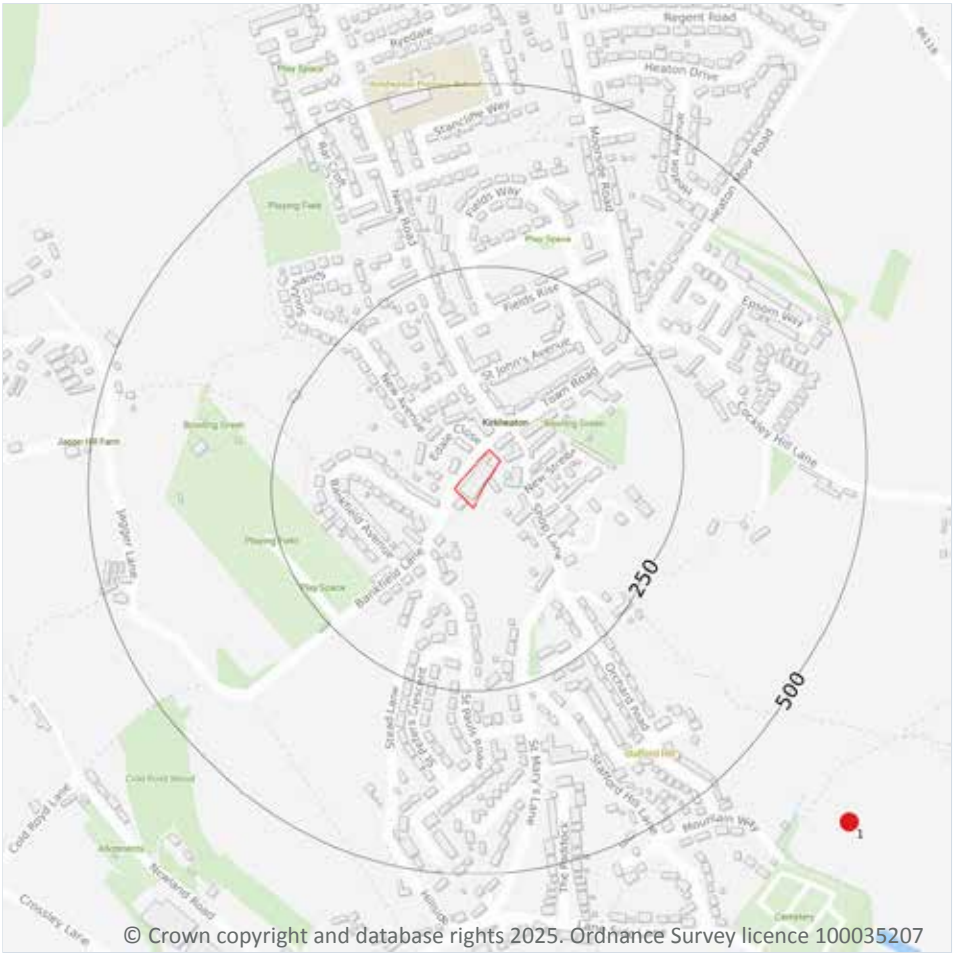
18.16 Clay mining

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 99 >**

ID	Location	Mine Address	Mineral	Data source	Publisher
1	669m SE	Bell String, Lane Side, West Yorkshire	Clay	LISTING OF NEW MINERAL RECORDS OFFICE CATALOGUE.	UNPUBLISHED/DRAFT

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

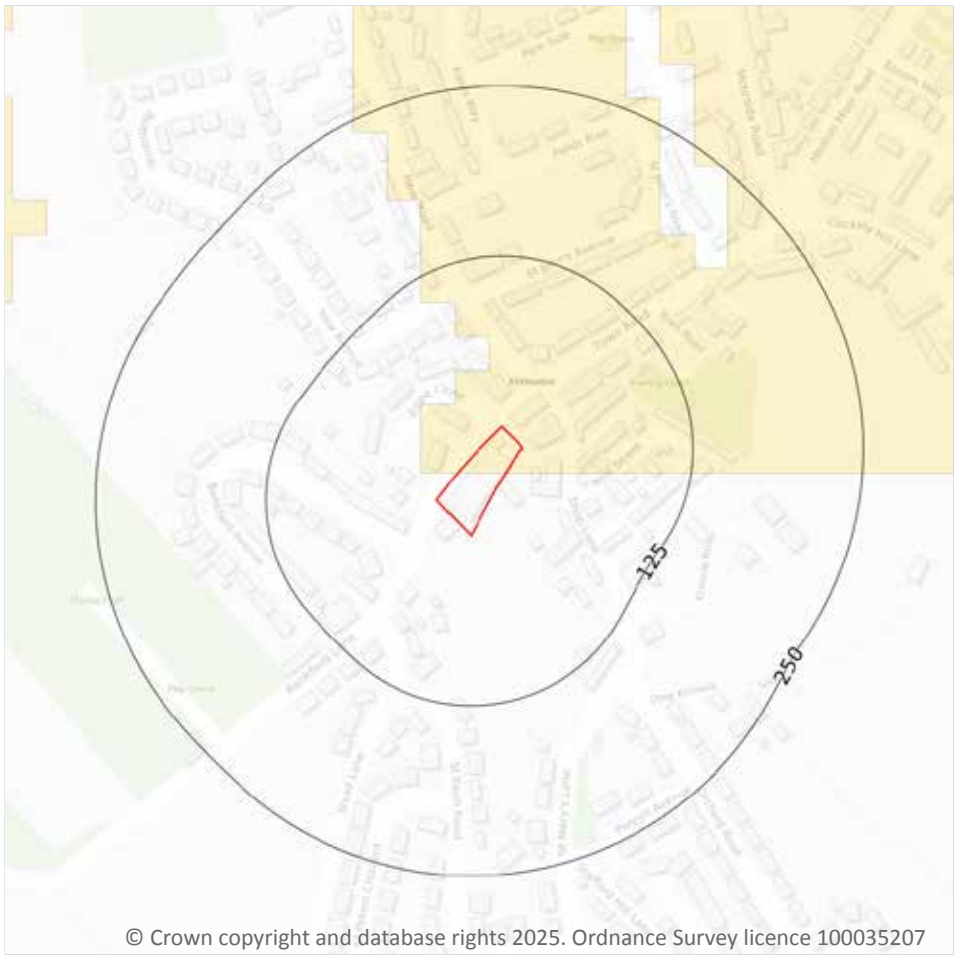
Records within 500m	0

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



Site Outline

Search buffers in metres (m)

Greater than 30%

Between 10% and 30%

Between 5% and 10%

Between 3% and 5%

Between 1% and 3%

Less than 1%

20.1 Radon

Records on site	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 101 >**

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

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	15

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 km^2. 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 km^2; 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 - 25 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 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	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 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 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
1m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
2m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
9m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
25m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
29m NE	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
30m NE	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
30m NE	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

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 km^2.

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	0

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 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 4

Photographs



Photo 1: Image shows the front centre of the site, the works can be seen clearly.



Photo 2: Image shows the front, south end of the site. Presumed asbestos panelling can be seen across the entire unit.



Photo 3: Image shows overgrown vegetation to the northern edge of the site.



Photo 4: Image shows further overgrown vegetation towards the rear of the site.