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PHASE 1 ENVIRONMENTAL
DESK STUDY
REPORT

job number	C4173/25/E/8276
date	12/09/25
site address	Land adjacent to Low Road, Dewsbury Moor, Dewsbury, WF13 3PR.
written by	I. Sakoor
checked by	R. A. Palmer
issued by	I. Sakoor

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Report on a Phase One Desk Study

Location:	Land adjacent to Low Road, Dewsbury Moor, Dewsbury, WF13 3PR.		
For:	APS Autocare Ltd.		
Report No.	C4173/25/E/8276	Report date:	September 2025

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

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1. Introduction

The site comprises an area of brownfield land located off Low Road, Dewsbury Moor, Dewsbury, WF13 3PR. The site is approximately 0.06 hectares in size and its National Grid reference is centred around 422758, 421557.

It is understood that the development proposals currently comprise the construction of a vehicle testing and repair garage with associated car parking areas. 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 29th August 2025 and the following observations were made:

General site description/current site use
The site comprises a square parcel of land located within a residential area, which appears to have had a previous structure on it.

Site boundaries/access
The site is accessible off Low Road via a driveway.

Topography
The site itself is relatively flat, however it is elevated above the level of the road.

Surface cover of site
The site is covered by overgrown vegetation. A number of trees have been felled and the trunks left on site. Additionally, made ground is also present across the site. Towards the front of the site, relict foundations can be seen.

Visible evidence of contamination/ contaminative sources
Made ground can be seen across the site and rubbish is also present. However, there were no other visible signs of contamination present during the time of the walkover.

Presence of vegetation and wildlife
The site was overgrown with vegetation. This will need to be cleared prior to any site investigation. 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. There were no overhead services present within the site at the time of the walkover.

Site neighbours
The site is located within a residential area.

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 the client. 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 - 1922	At the start of this period, the site is undeveloped and is located within a rural area.	Ground workings – 240m NE. Railway line – 100m SW. Sewage works – 140m W., 250m W.
1931 - 1977	At the start of this period, a rectangular building labelled club has been built onsite. Towards the end of this period, the building has been expanded to take up the majority of the site area. By this time, the site is now surrounded by residential housing.	Ground workings – 240m NE. No longer present by 1982. Dismantled railway line – 100m SW. Dewsbury moor crematorium – 200m E. Electricity substation – 200m E. Sewage works – 140m W
1982 – 2025	No further changes can be seen. However, by 2012, shows that the club building has been demolished.	Ground workings – 240m NE. No longer present by 1982. Railway line – 100m SW. Dewsbury moor crematorium – 200m E. Electricity substation – 200m E. Scrap yard – 150m E. Sewage works (disused) – 140m W.

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	Birstall Rock	Park Gate Rock	The Birstall Rock is a fine-grained, thickly bedded, cross bedded sandstone with common pebbles of ironstone, coal, sandstone, mudstone and common streaks of shaly coal.
GEOLOGICAL FEATURES			
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.
Faults	165m N	Fault	Normal fault, displacement unknown. This fault is not anticipated to affect the site.
Landslip Deposits	No data	No data	No data.

[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*]

BGS BOREHOLE DATA			
Reference[6]	**Location**	**Depth**	**Strata Description**
SE22SW1206	49m W	0.0m to 0.6m 0.6m to 1.9m 1.9m to 8.6m 8.6m to 9.6m 9.6m to 10.1m	Tarmac and sub-base. Sandstone. Mudstone. Coal. Shale.
SE22SW538	63m W	0.0m to 1.2m 1.2m to 5.1m 5.1m to 6.0m 6.0m to 7.0m	Soil and clay. Mudstone. Coal. Mudstone.

NATURAL GROUND SUBSIDENCE & HAZARDS[7]	
Type	**Risk Rating**
Potential for shrinking or swelling clay ground stability	Negligible.
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.

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 the Birstall Rock may 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.

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

Should any cohesive soils 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

A Coal Mining Risk Assessment has been undertaken by Rogers Geotechnical Services Ltd (report number: C4173/24/E/6372, March 2024) in relation to the site. This report concluded a low risk of instability posed by underground mining to surface structures. However, it was deemed that a moderate risk is present in relation to mines gasses.

2.5 Waste Management and Gas Monitoring

Table 3: Landfill Data and Artificial Ground, Recorded and Anticipated

ENVIRONMENT AGENCY, LOCAL AUTHORITY, BGS & HISTORIC LANDFILLS			
Waste Type	**Location**	**Comments**	**Monitoring Requirement**
Active Landfill	128m SW	Operator: Kirklees Council. Type: Household, commercial and industrial waste landfill.	N
Historic Landfill	123m SW	Lower Spen Valley	Y
Historic waste sites	128m E	Type: Waste Transfer Station (1994)	N
	140m – 147m NE	Type: Scrap Yard (1982 - 1997)	N
	175m NE, 190m NE	Ground workings and refuse heap (1933 and 1956)	N
Licenced waste sites	179m E	Type: Household, commercial and Industrial Waste Transfer Station. Issue date: 12/02/25.	-
	179m E	Type: Household, commercial and Industrial Waste Transfer Station. Issue date: 16/08/94.	-
	184m NE	Type: Landfill taking Non-Biodegradable Wastes. Issue date: 20/06/94	-

Waste Exceptions	93m SW	Category: Use of waste exemption. Use of waste in construction	-
MADE GROUND & INFILLED GROUNDWORKINGS			
Description	**Location**	**Comments**	**Monitoring Requirement**
Records of Potentially Infilled Features	181m NE	Unspecified pit (1892, 1905)	N
	183m NE	Unspecified ground workings (1938)	N
	184m NE	Unspecified heap (1892 - 1931)	N
	184m NE	Unspecified ground workings (1905, 1948)	N
	186m N	Colliery (1892)	N
	187m W	Unspecified heap (1892 – 1931)	N
	189m NE	Unspecified ground workings (1955)	N
	192m W	Unspecified heap (1955)	N
	201m – 204m NE	Refuse heap (1905 – 1948)	N
	209m NW	Sewage works (1938)	N
	212m NE	Unspecified heap (1967 – 1974)	Y
	212m NE, 220m NE	Refuse heap (1892, 1955)	N
	224m N	Unspecified heap (1905)	N
	230m N	Unspecified pit (1892)	N
	239m NE	Unspecified pit (1905)	N

2.6 Hydrogeology, Hydrology

Table 4: 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	-	None recorded within 250m.
Abstraction Licences	-	None recorded within 250m.
Records of Part A(2) and Part B	-	None recorded within 250m.

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

Activities and Enforcements		
Records of Licensed Discharge Consents	166m S	Process: Sewage discharges – sewer storm overflow. Status: Transferred from R (PP)A 1951-1961. Issue date: 10/05/1963. Revocation date: 10/06/1993.
	166m S	Process: Sewage discharges – sewer storm overflow. Status: Revised consent by notice (Section 37(1)). Issue date: 11/06/1993. Revocation date: 24/01/1995.
CONTROLLED WATERS[10]		
Description	**Location**	**Details**
River Network Entries	214m W 241m S 246m SW	Inland river.
Surface Water Features	Within 250m	4 surface water records present within 250m. 3 associated with inland river and 1 feature associated with a lake.

POLLUTION INCIDENTS[11]			
Pollutant	**Receptor**	**Location**	**Date**
None within 250m of the site.			

ENVIRONMENT AGENCY FLOOD RISK[12]		
Description	**Location**	**Details**
Zone 2	-	The site is not situated within a Zone 2 flood plain.
Zone 3	-	The site is not situated within a Zone 3 flood plain.
Flood Defences	-	None recorded within 250m.
Surface Water Flooding Area	-	Negligible risk of surface water flooding to occur.
Groundwater Flooding Area	-	Negligible risk for groundwater flooding to occur.

2.7 Sensitive Land Use

Table 5: Sensitive Land Uses within 250m		
REGISTERED SENSITIVE LAND USES [13]		
Description	**Location**	**Details**
Green Belt Land	126m SW	South and West Yorkshire Green Belt.
Nitrate Vulnerable Zone	On Site	Spen Beck from source to River Calder NVZ.

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

[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.

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:

Table 6: Potentially Contaminative Sources		
HISTORICAL		
Land Use	**Location**	**Classification**
Historical construction Ground workings Unspecified pit/heap Refuse heap Colliery	On site 240m NW, 183m – 189m NE, 181m NE, 184m NE, 187m – 192m W, 201m – 239m NE, 224m N 212m NE, 220m NE 186m N	Artificial/made ground.
Sewage works Scrap yard Sewage works	140m NW 150m E 209m NW	Unspecified works/factories/features.
Railway line	100m SW	Railway land
CURRENT		
Land Use	**Location**	**Classification**
D Wilkinson Bros (scrap metal merchants)	153m E	Unspecified works/factories/features.
TANKS (Buried and Above Ground)		
Land Use	**Location**	**Classification**
Detritus Tanks	248m W	Associated with sewage works.

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 vehicle testing and repair garage with associated car parking areas. In view of the sensitivity of the end users it is considered that the soil screening values (SSVs) for a commercial 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 7: 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 – 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	No – soft landscaping not proposed as part of the new development.	N/A	
	Neighbours	No – soft landscaping not proposed as part of the new development.	N/A	

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	Yes – possible source on site and controlled waters within 250m.	Moderate	There are potential on and off-site sources of contamination that may have caused contamination of the site. Controlled waters within 250m. 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	No – landscaped areas are not anticipated.	N/A	No further action required.
Uptake via root system			N/A	
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 activity and where shallow worked seams may be present. The Coal Mining Risk Assessment indicates that a moderate risk is present in relation to mines gas.	Moderate	For further details see report C4173/24/E/6372 (CMRA).
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 activity and where shallow worked seams may be present. However, the Coal Mining Risk Assessment indicates that a low risk is present in relation to underground mining.	Low	For further details see report C4173/24/E/6372 (CMRA).
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 0.06ha, 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	Should be assessed during any investigation.				

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).
- **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.

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.

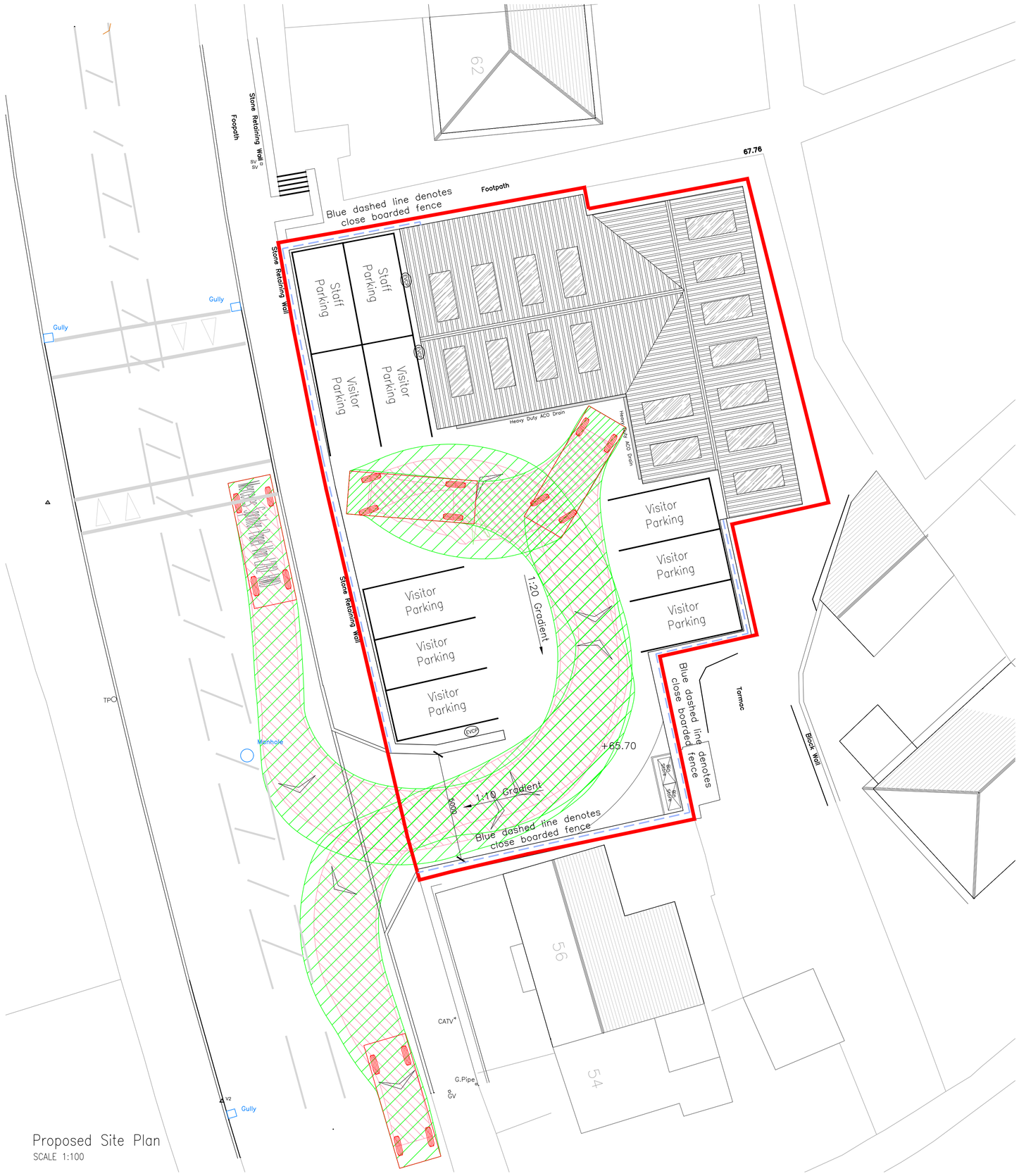
As soon is as practicable, and prior to the above, this Phase 1 report should be forwarded to the relevant authorities, in order to ensure they have sufficient time to review and discuss any issues.

5. References

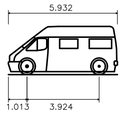
- British Standards Institution (2015), BS5930 2015 + A1:2020: *Code of practice for site investigations*, B.S.I., London.
- British Standards Institution (2007), Amendment No 1 to BS5930: *Code of practice for ground investigations*, B.S.I., London.
- British Standards Institution (2011) +A2:2017, BS 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







Mercedes Sprinter Panel Van L2H2 RWD	
Overall Length	5.932m
Overall Width	1.993m
Overall Body Height	2.620m
Min Body Ground Clearance	0.162m
Track Width	1.759m
Lock to lock time	5.00s
Kerb to Kerb Turning Radius	7.600m

NOTES

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2. All dimensions must be checked and verified on site by the Contractor prior to the commencement of works and Hinchliffe Architecture & Design Ltd. to be notified of any discrepancies.

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4. Any works undertaken on site prior to obtaining full written approval from Kirklees Planning Department & Kirklees Building Control is at the Contractor/Clients own risk. Works should not commence until ALL approvals are granted.

Rev.	Date	Description
G	03.12.24	AMENDMENTS FOLLOWING HIGHWAYS COMMENTS
F	22.11.24	AMENDMENTS FOLLOWING HIGHWAYS COMMENTS
E	02.10.24	AMENDMENTS FOLLOWING HIGHWAYS COMMENTS
D	09.05.24	CLIENT AMENDMENTS
C	25.02.24	PLANNING ISSUE
B	15.02.24	AMENDMENTS MADE FOLLOWING RECEIPT OF KIRKLEES PRE PLANNING FEEDBACK.
A	03.05.23	AMENDMENTS MADE FOLLOWING RECEIPT OF CLIENT COMMENTS 02.05.2023.

Status

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01484 529 764
info@hinch-architecture.co.uk
www.hinch-architecture.co.uk

Client

MR A. SHAH

Project

LAND ADJ. LOW ROAD
DEWSBURY
WEST YORKSHIRE
WF13 3PR

Drawing Title

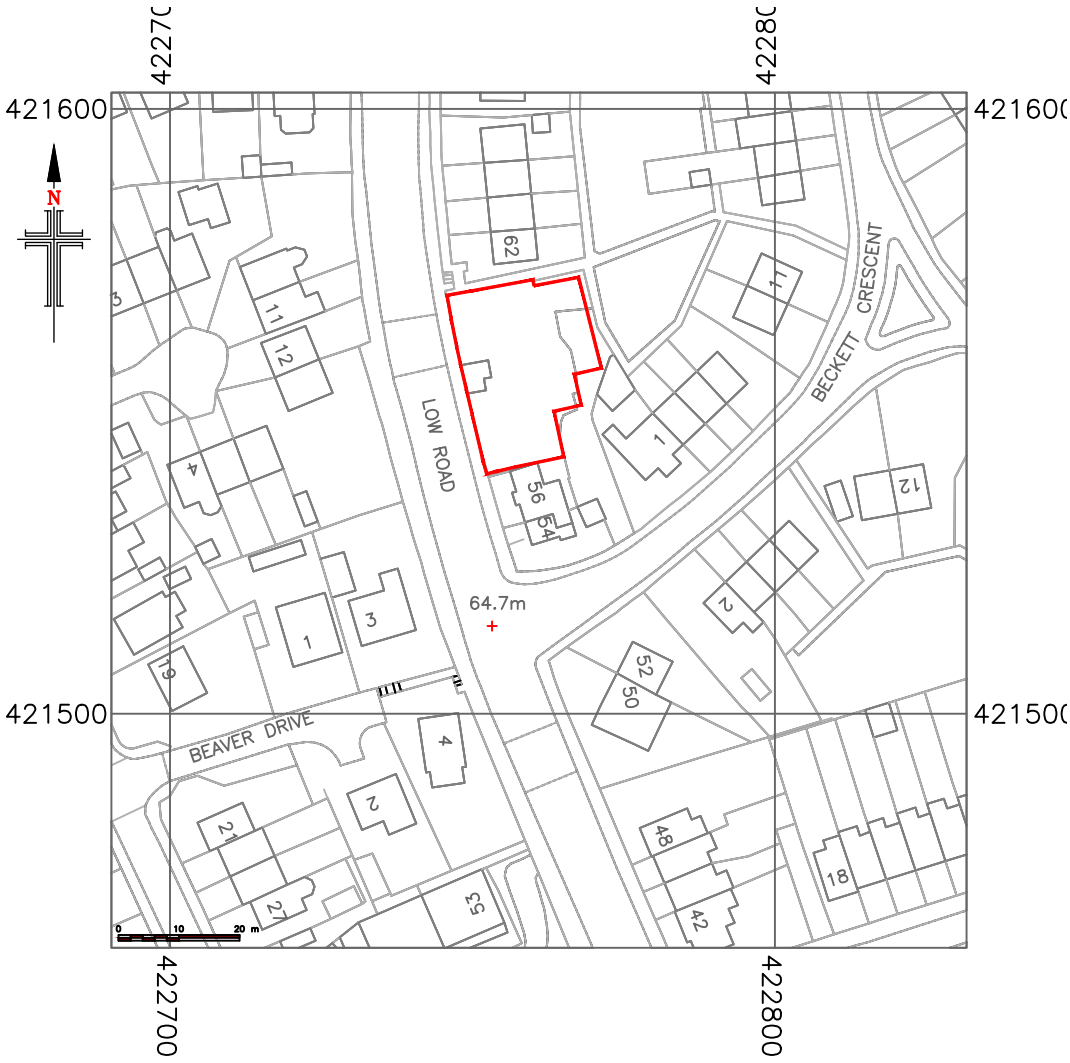
PROPOSED COMMERCIAL UNIT, SITE PLAN

Scale (at A1)	Date
1:100	APRIL 2023

Drg. no.	Rev.
180-23-PL01	G

10 0 10 20 50 100mm NATURAL SCALE

ORIGINAL DRAWING SIZE 841 x 594



LOCATION PLAN

SCALE 1:1250

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Client: MR A. SHAH

Project:
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DEWSBURY
WEST YORKSHIRE
WF13 3PR

Drawing Title: LOCATION PLAN

Scale at A4: 1:1250

Date: APRIL.2023

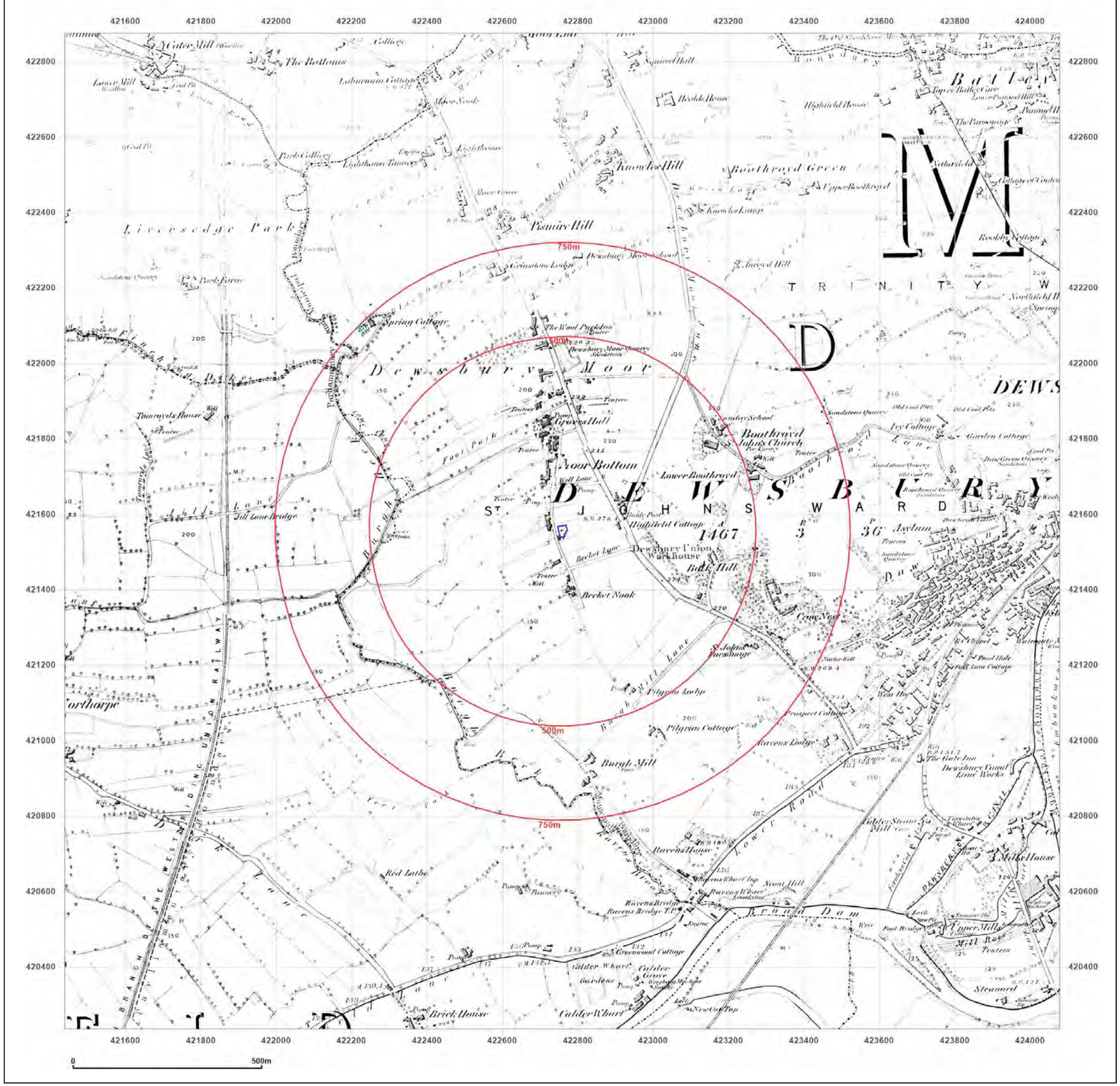
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Drawing No.: 180-23-PL06

Revision: A

Appendix 2

Historical Maps



Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: County Series

Map date: **1854-1855**

Scale: 1:10,560

Printed at: 1:10,560

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Revised N/A
Edition 1854
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Surveyed 1851
Revised N/A
Edition 1855
Copyright N/A
Levelled N/A

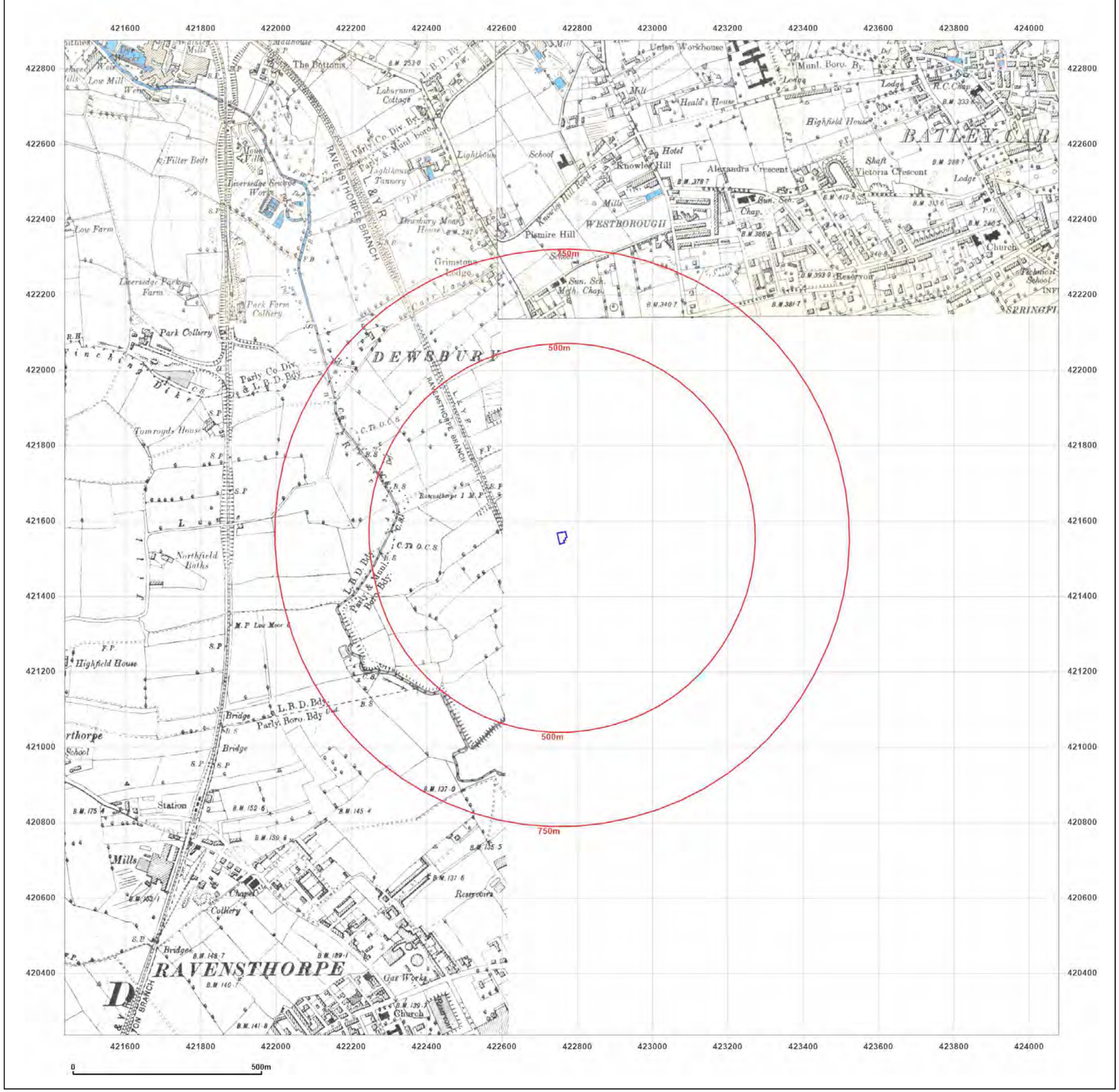
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
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Map Name: County Series

Map date: **1892**

Scale: 1:10,560

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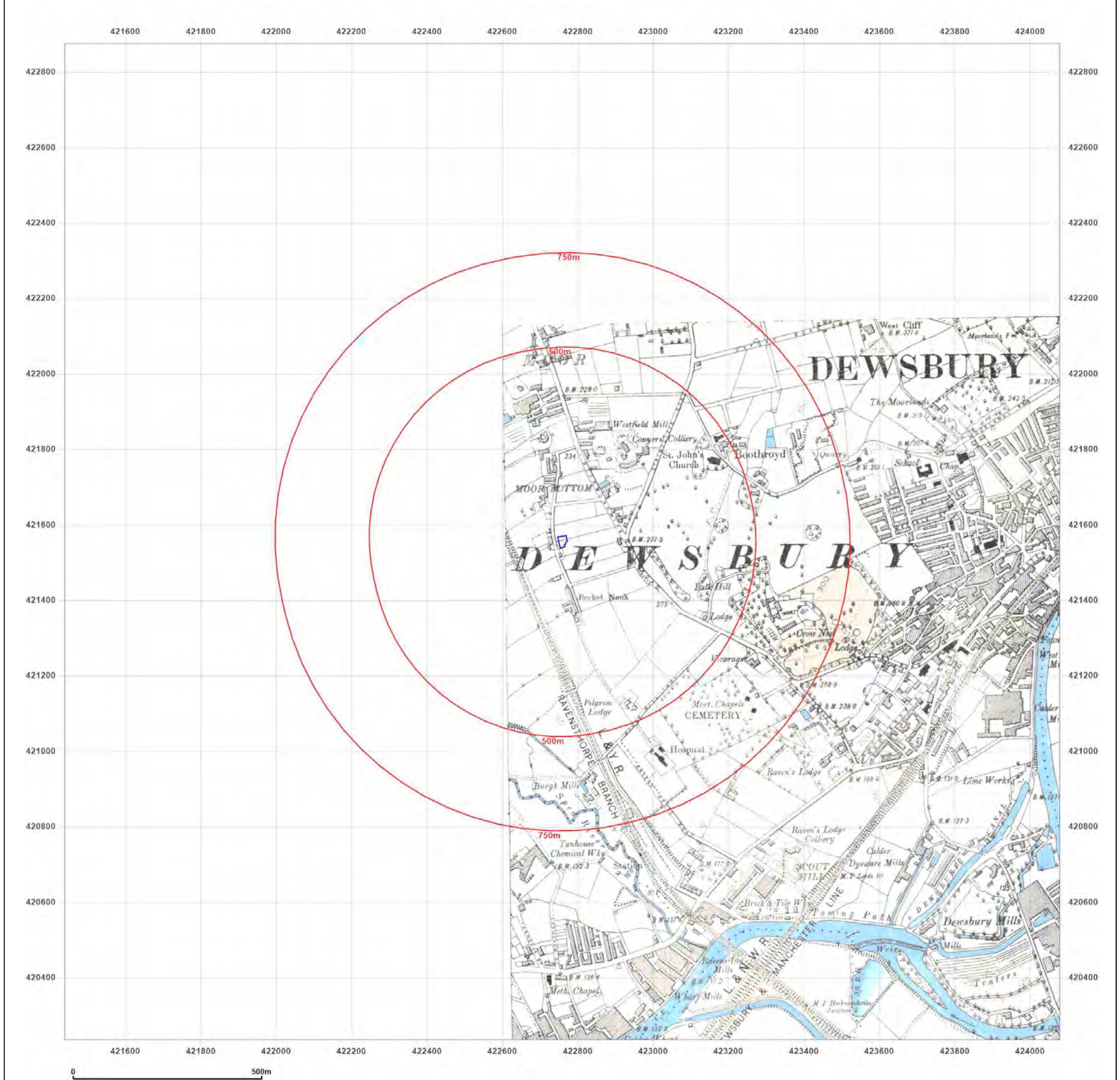
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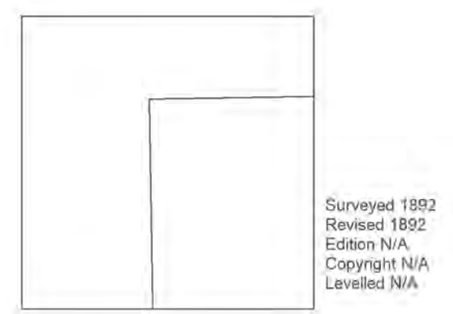
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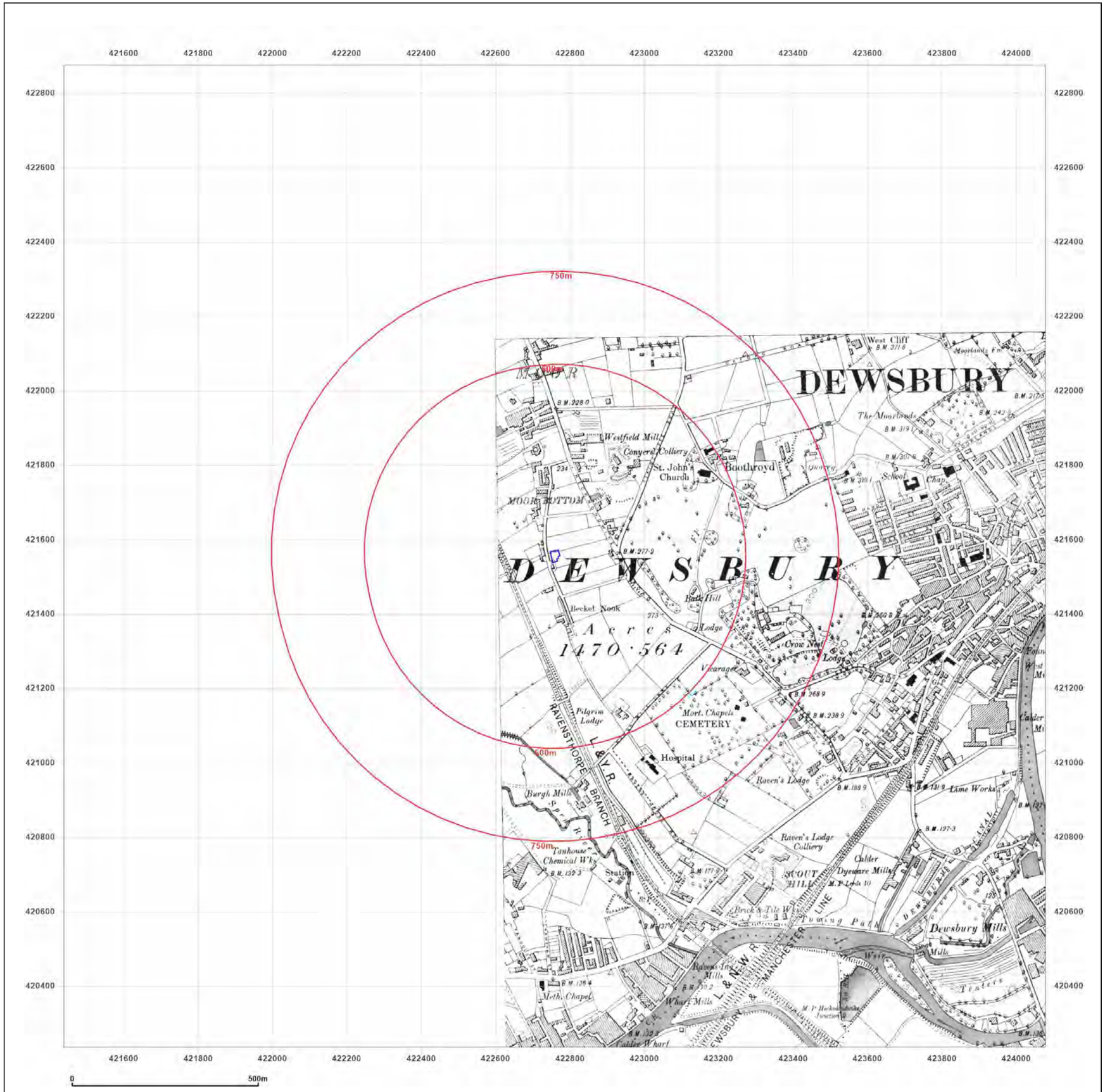
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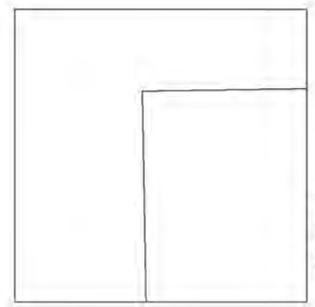
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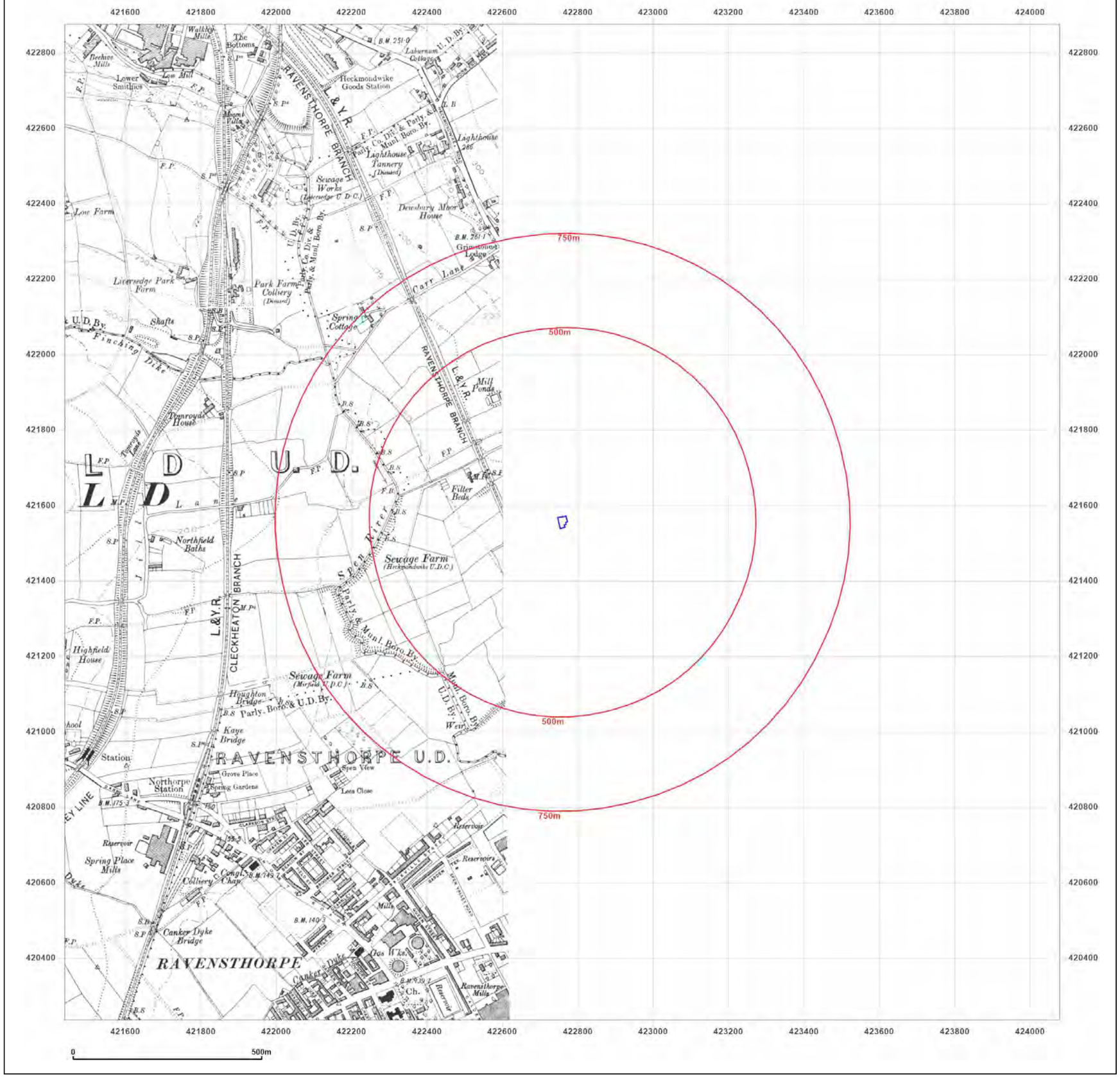
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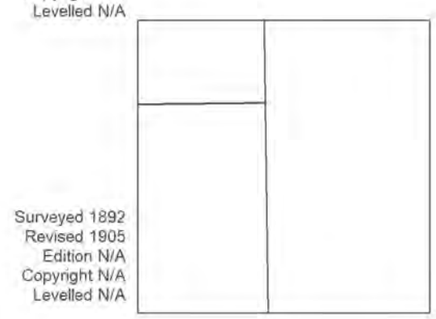
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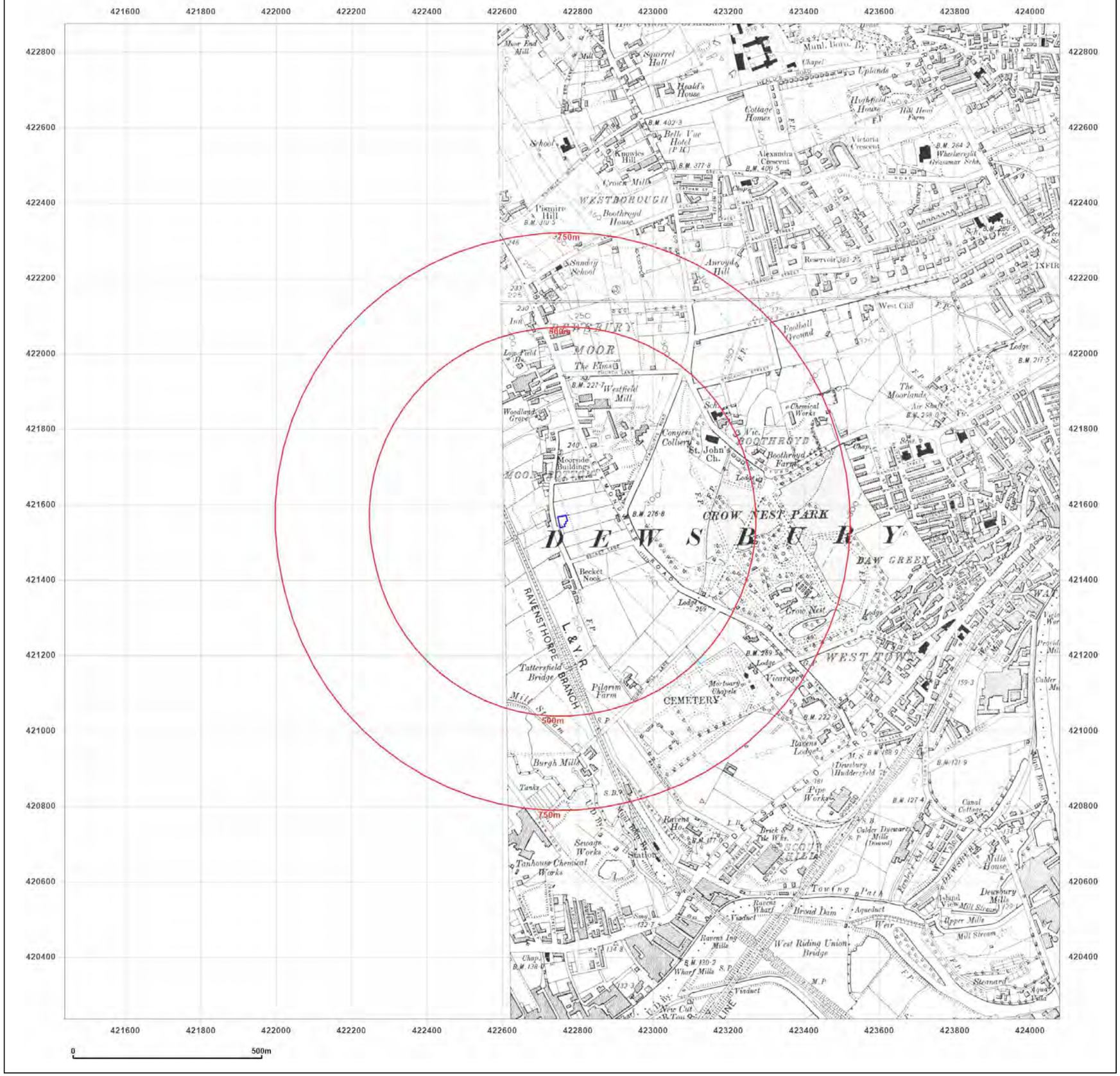
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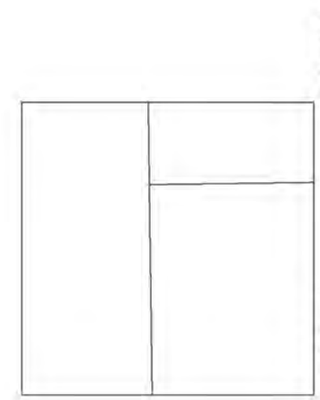
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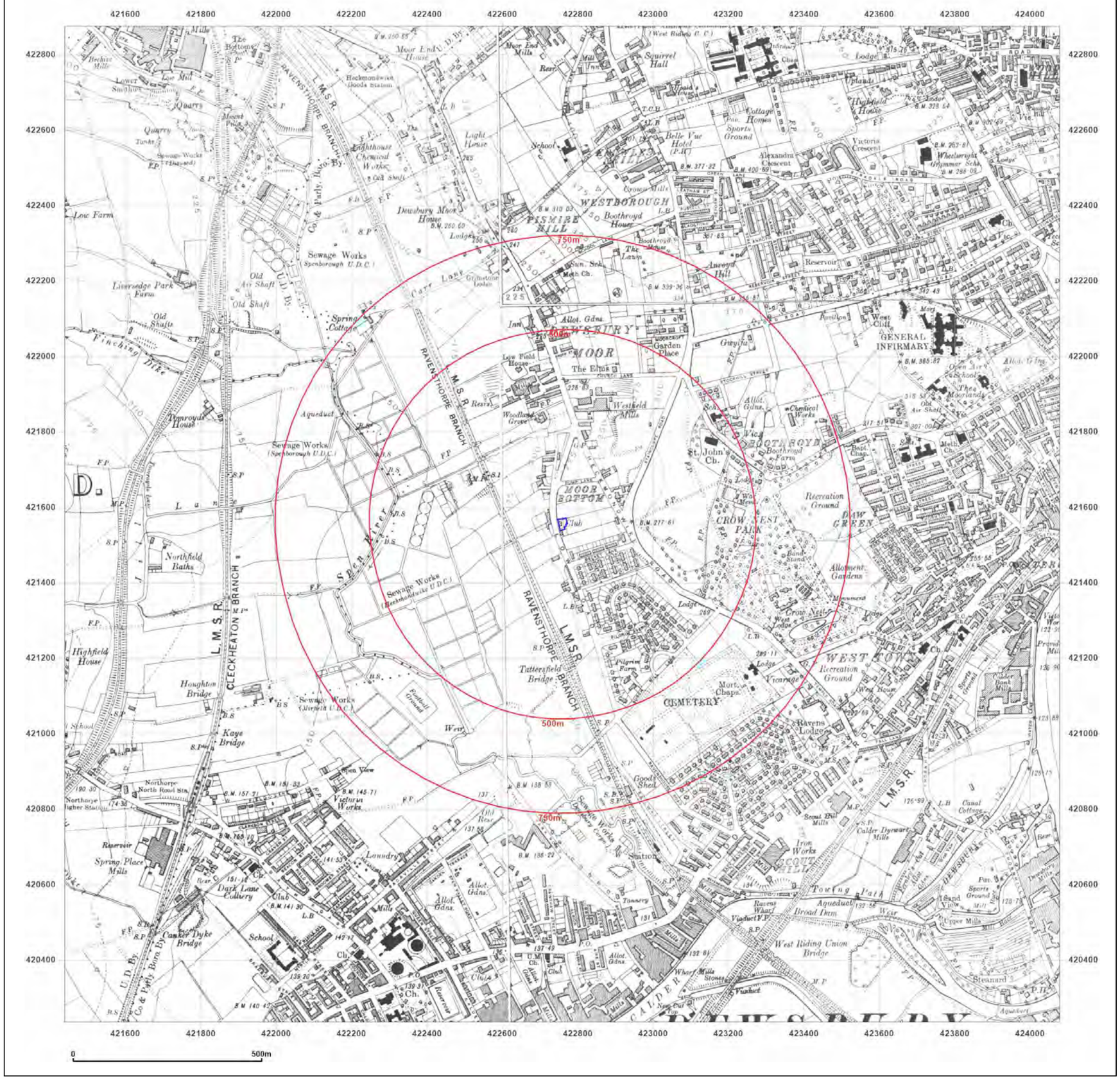
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Map Name: County Series

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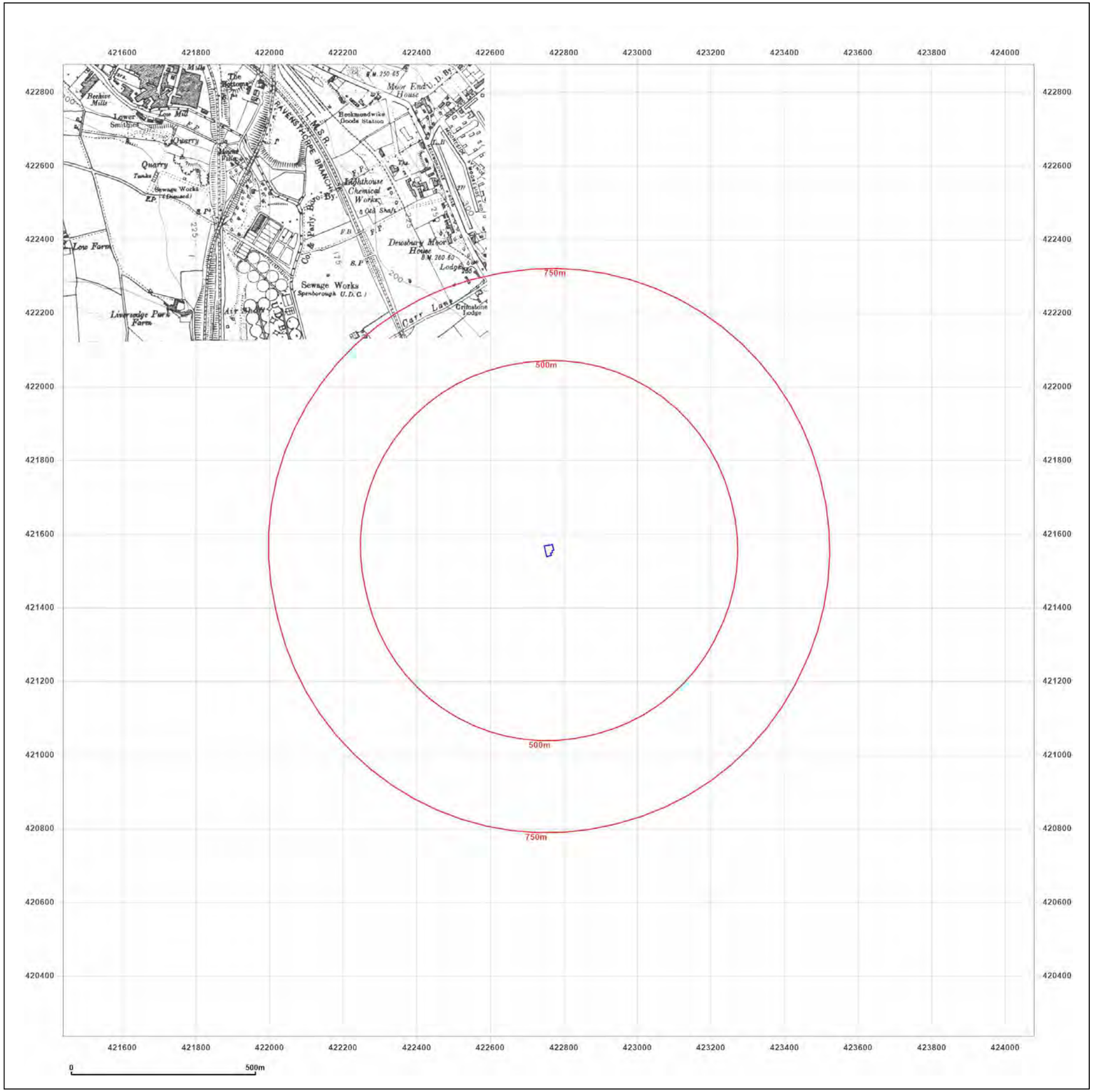
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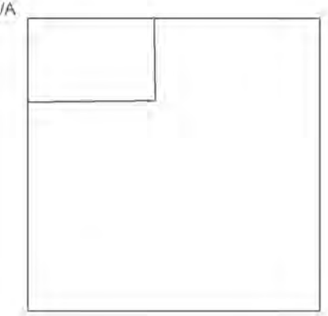
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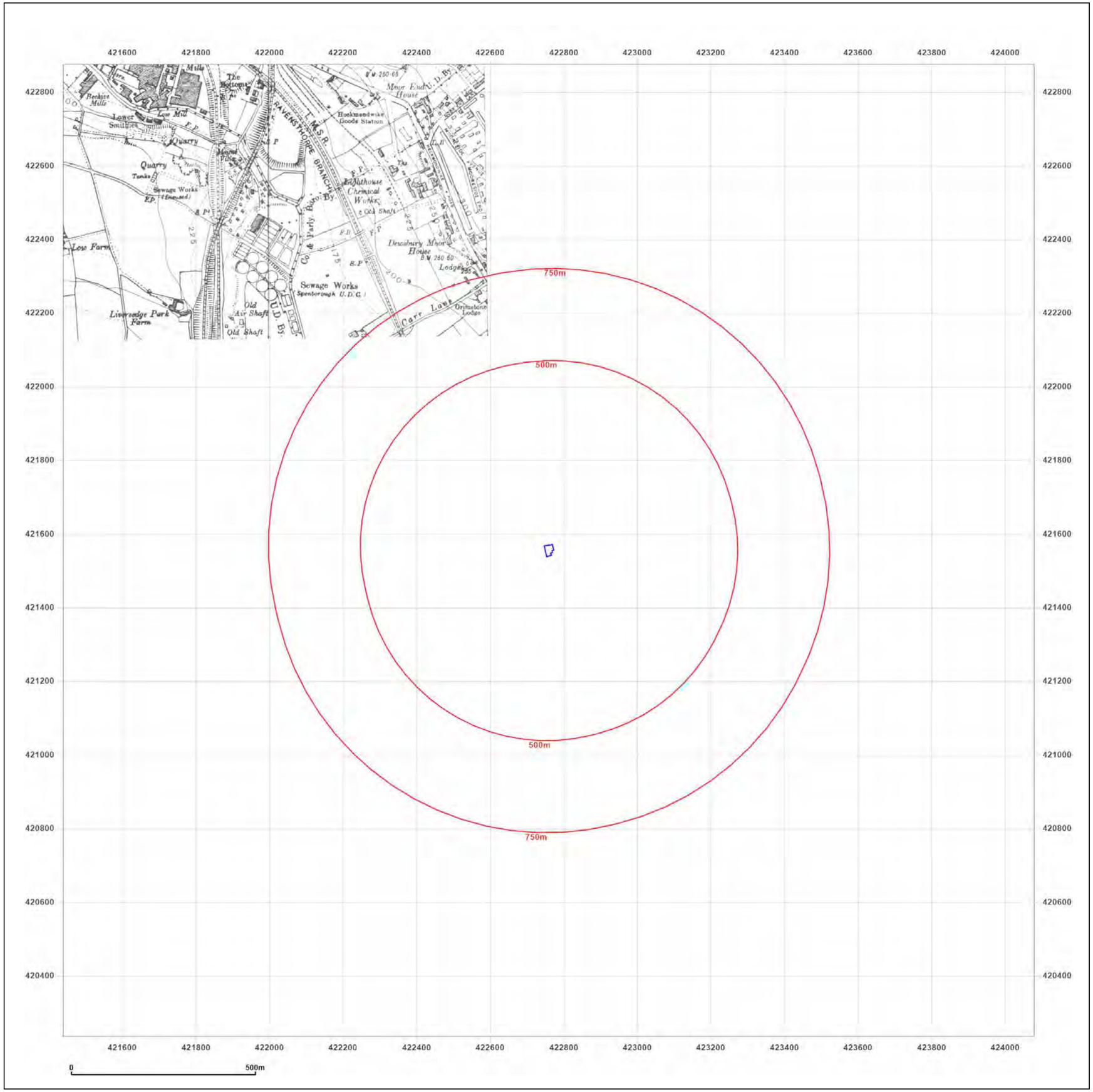
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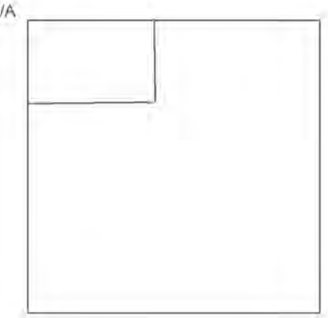
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Surveyed 1851
Revised 1931
Edition N/A
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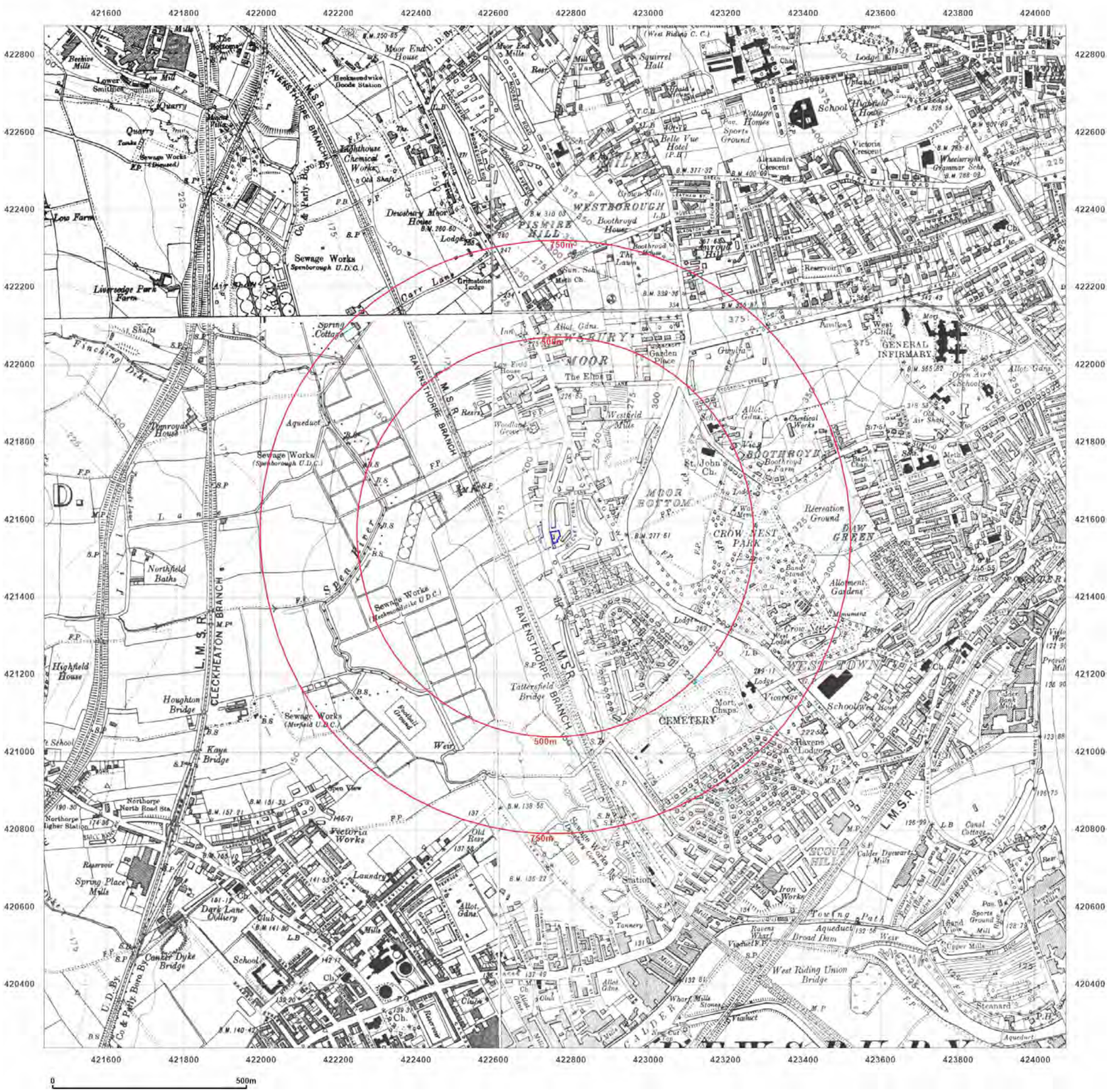
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Map Name: County Series

Map date: **1938**

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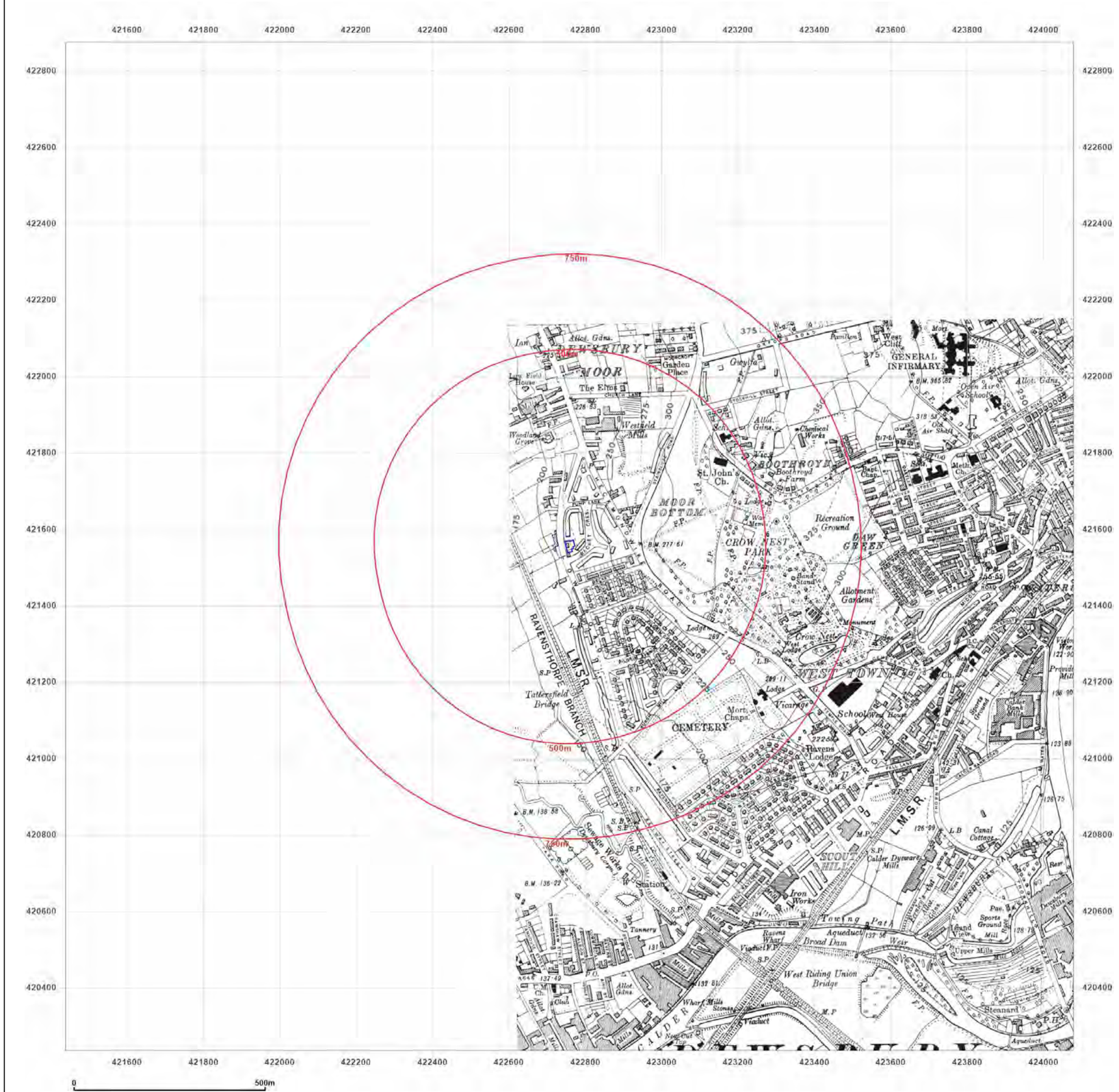
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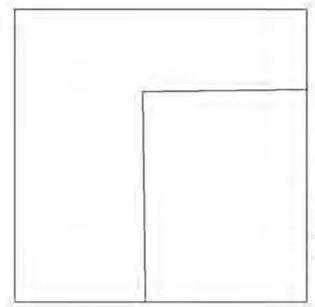
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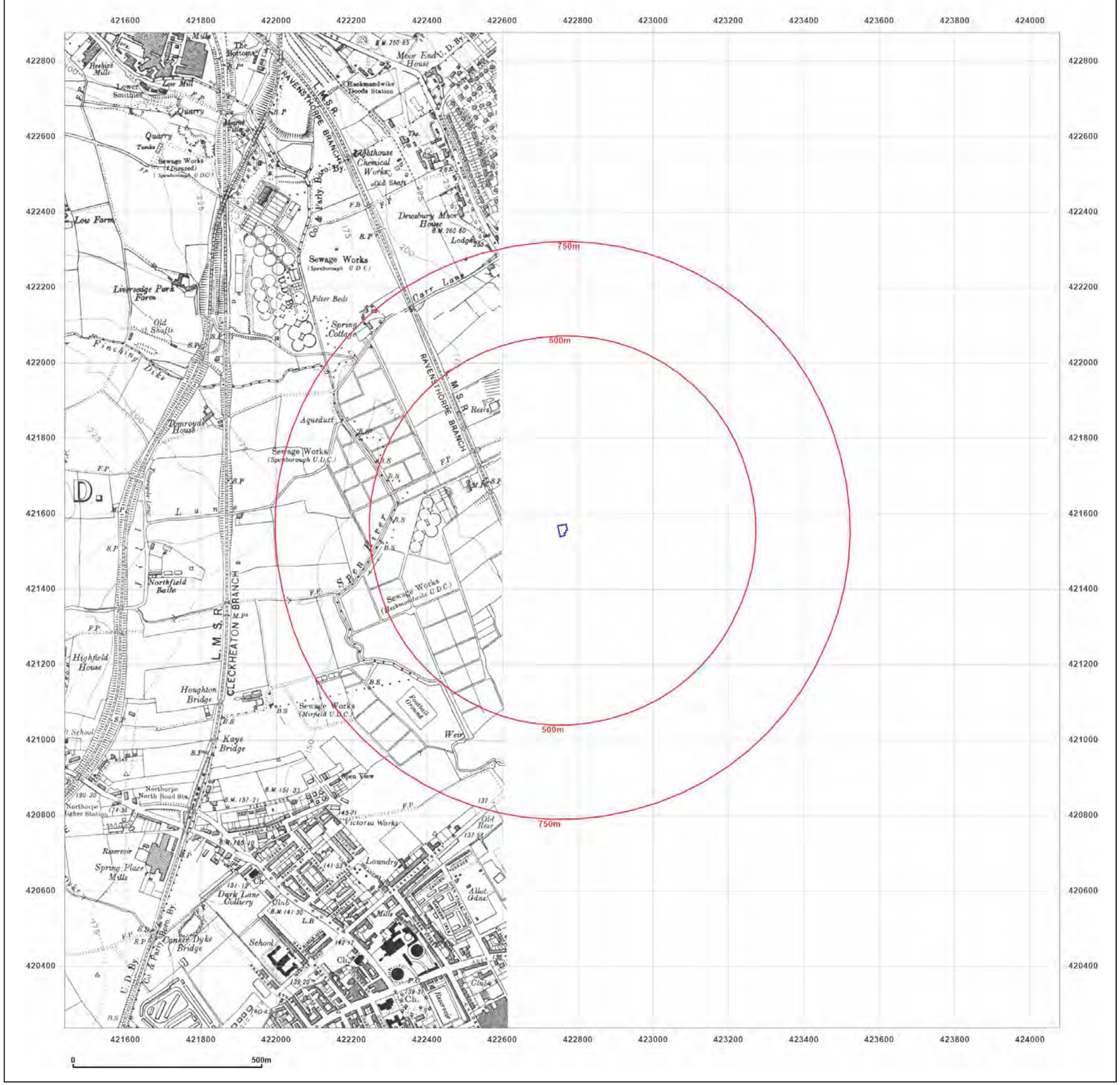
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: County Series

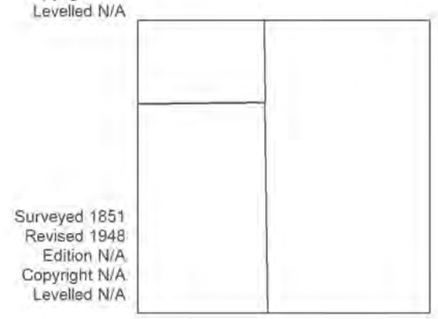
Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

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



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

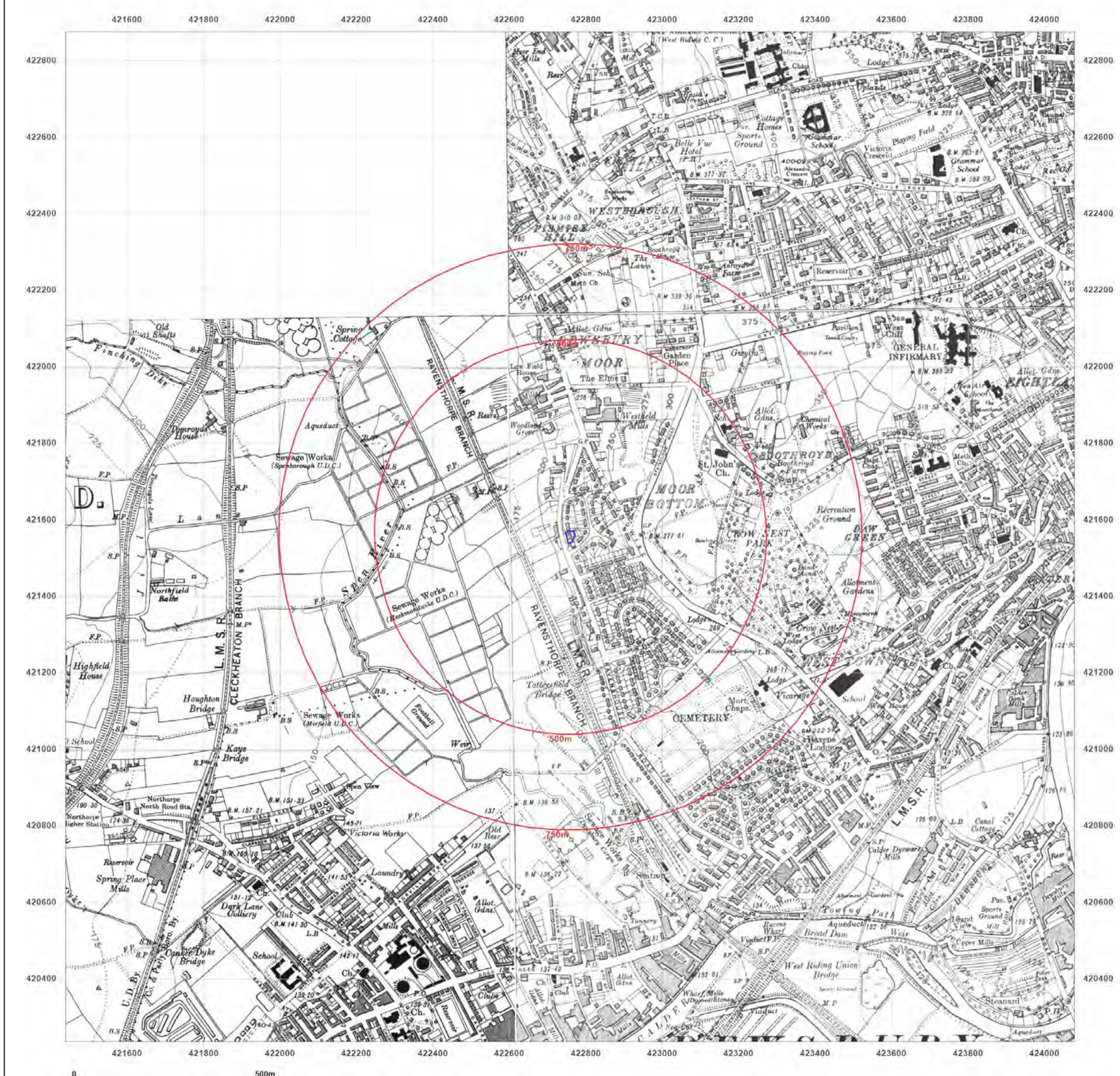
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: County Series

Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

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

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

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

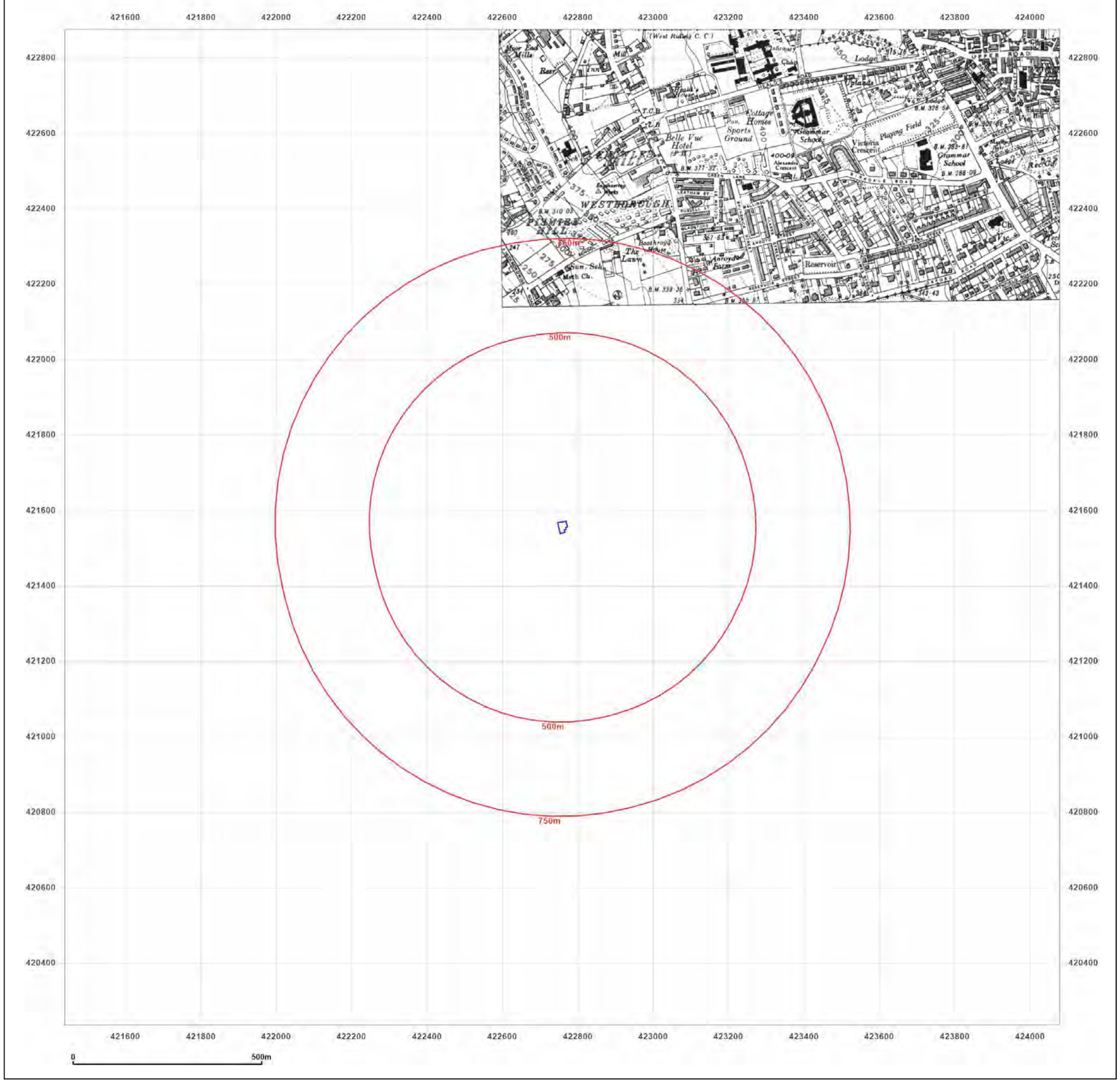
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: County Series

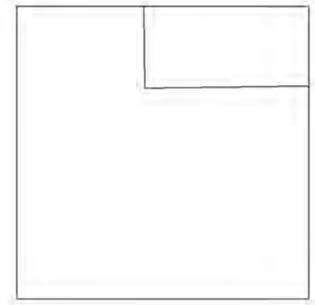
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Surveyed 1851
Revised 1948
Edition N/A
Copyright N/A
Levelled 1931



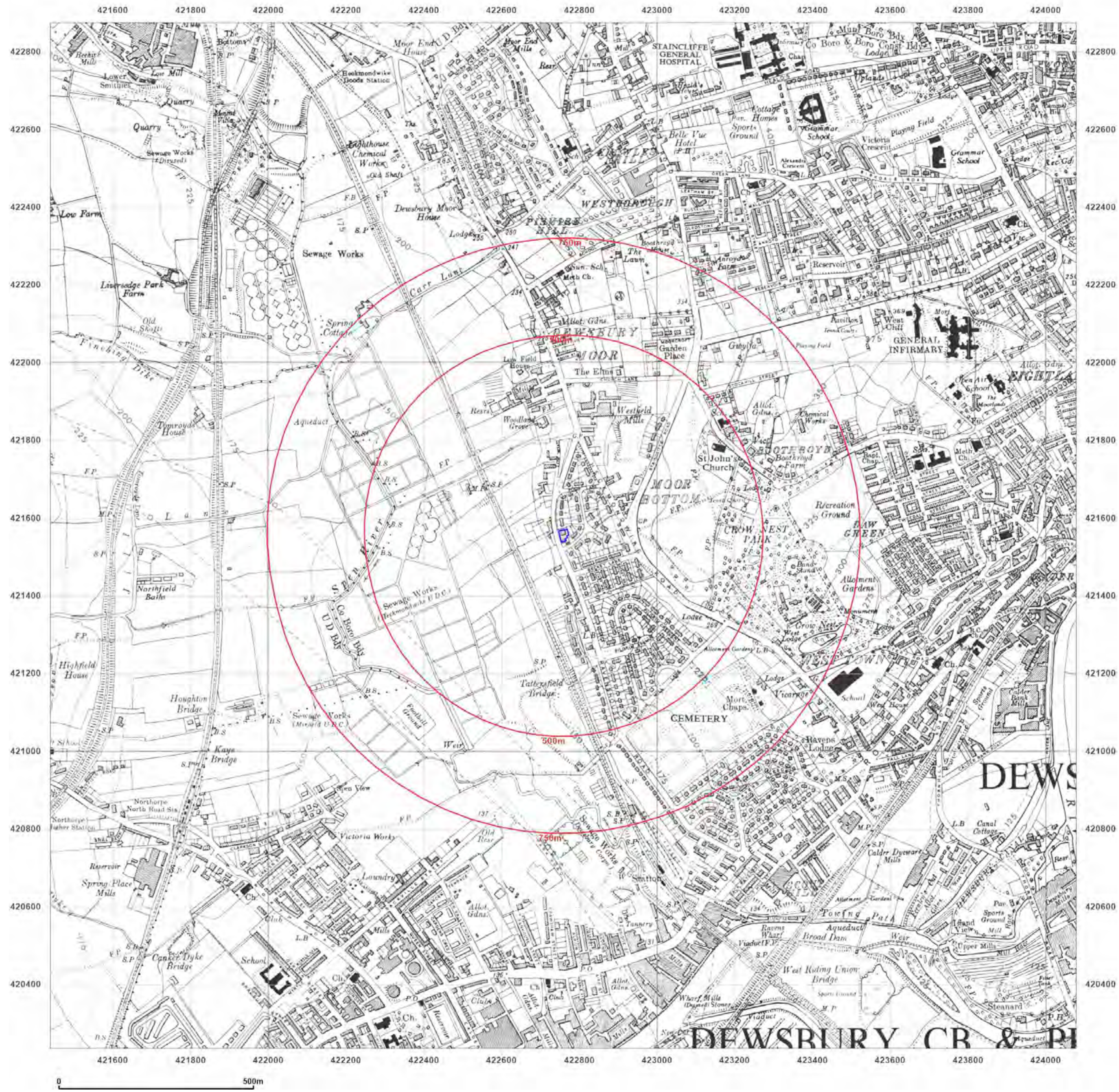
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Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: Provisional

Map date: **1955**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1951
Revised 1955
Edition N/A
Copyright N/A
Levelled N/A

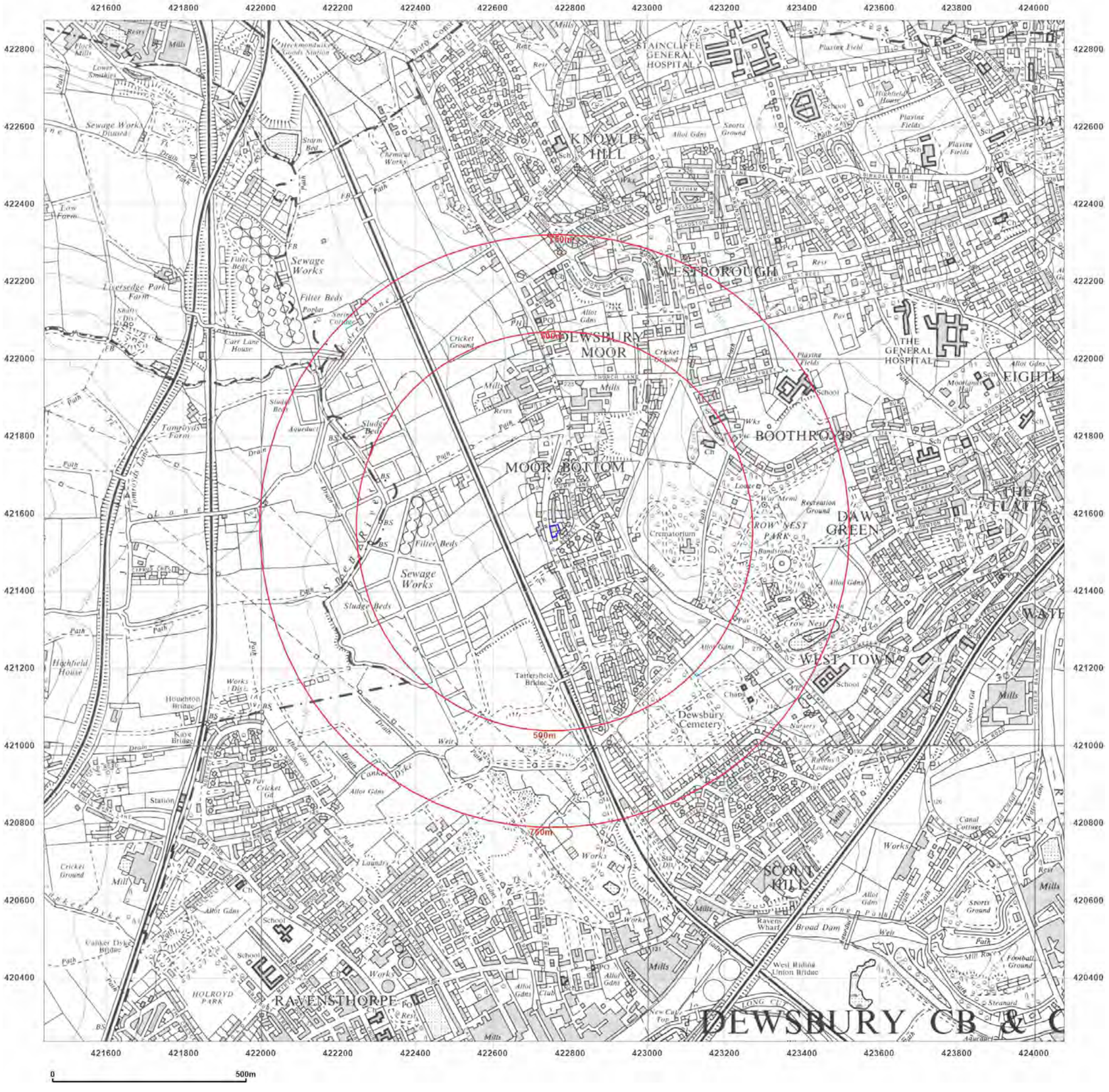
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: Provisional

Map date: **1967**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1967
Revised 1967
Edition N/A
Copyright N/A
Levelled N/A

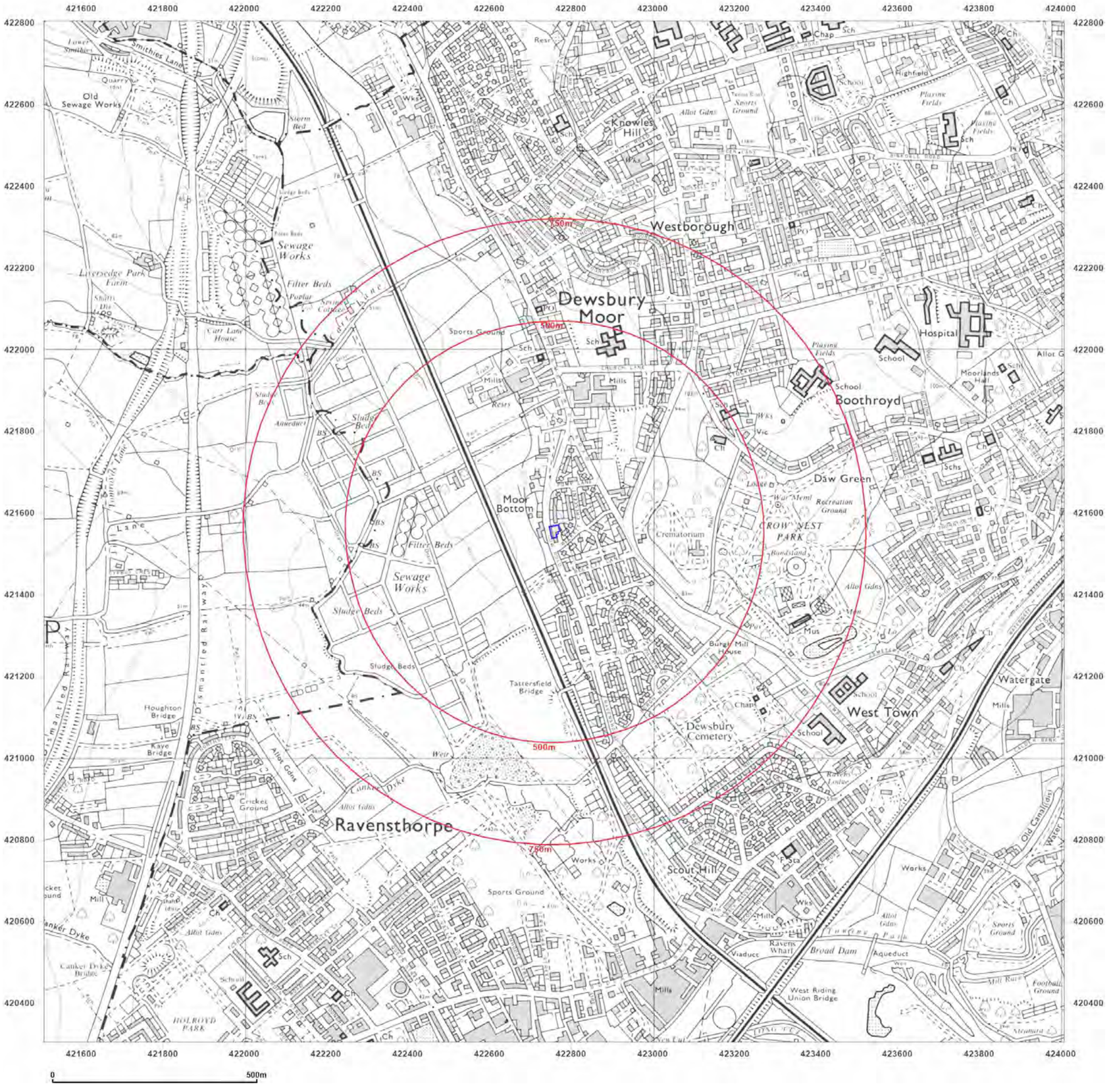
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid

Map date: **1974**

Scale: 1:10,000

Printed at: 1:10,000

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

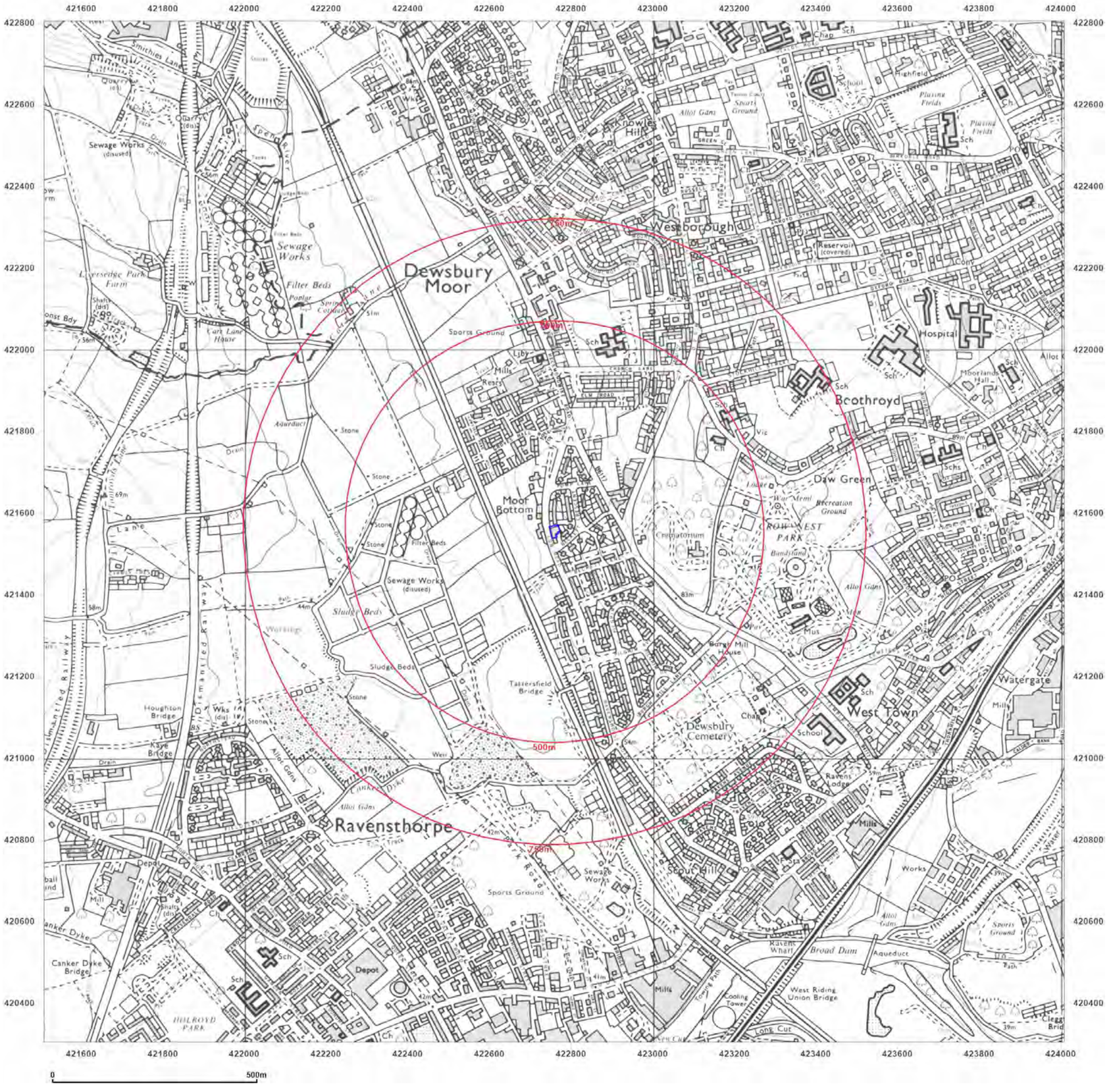
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid

Map date: **1981**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1977
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

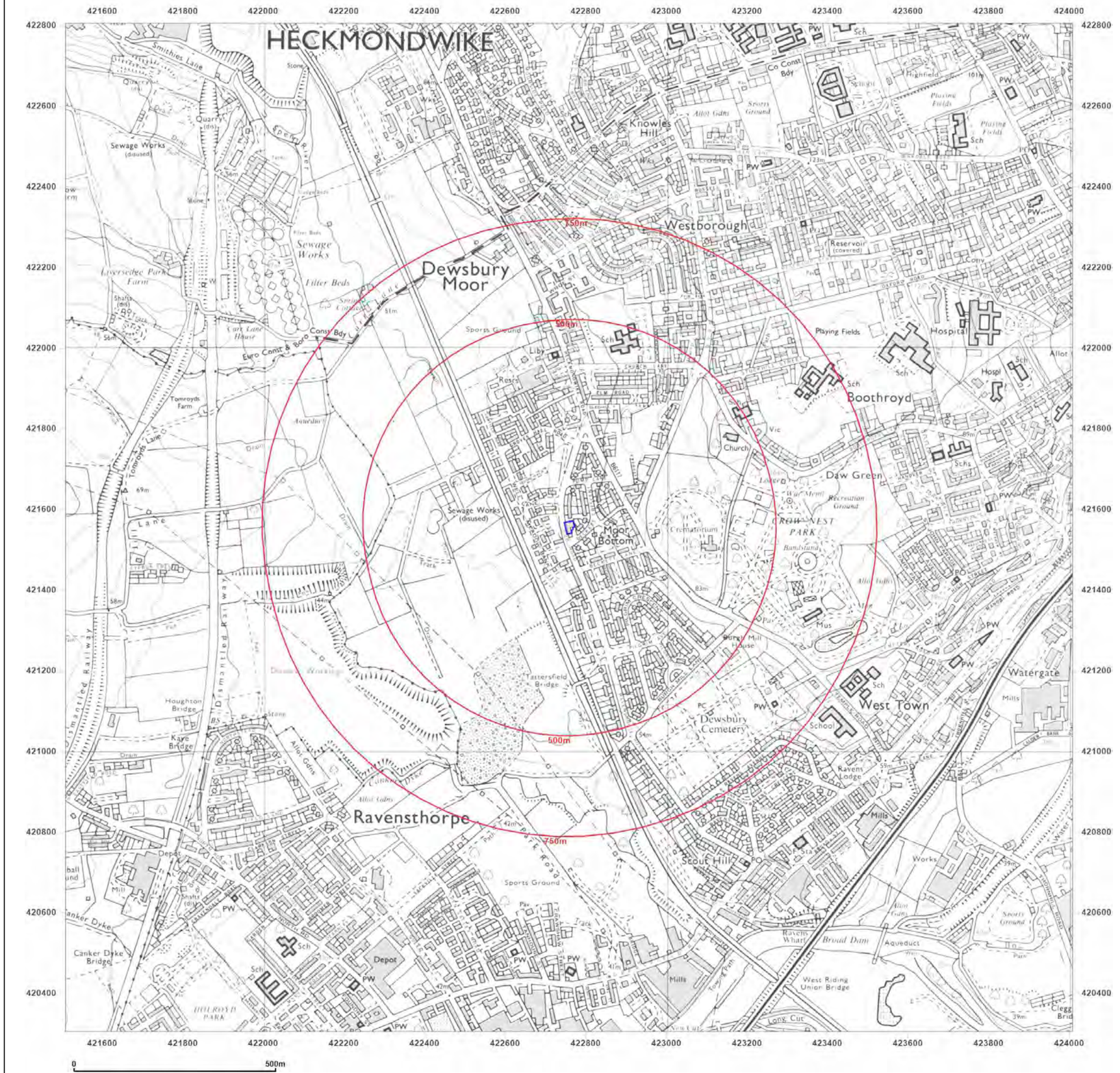
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
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DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid

Map date: **1988**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1985
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
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DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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Site Details:

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DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

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

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W E
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2010

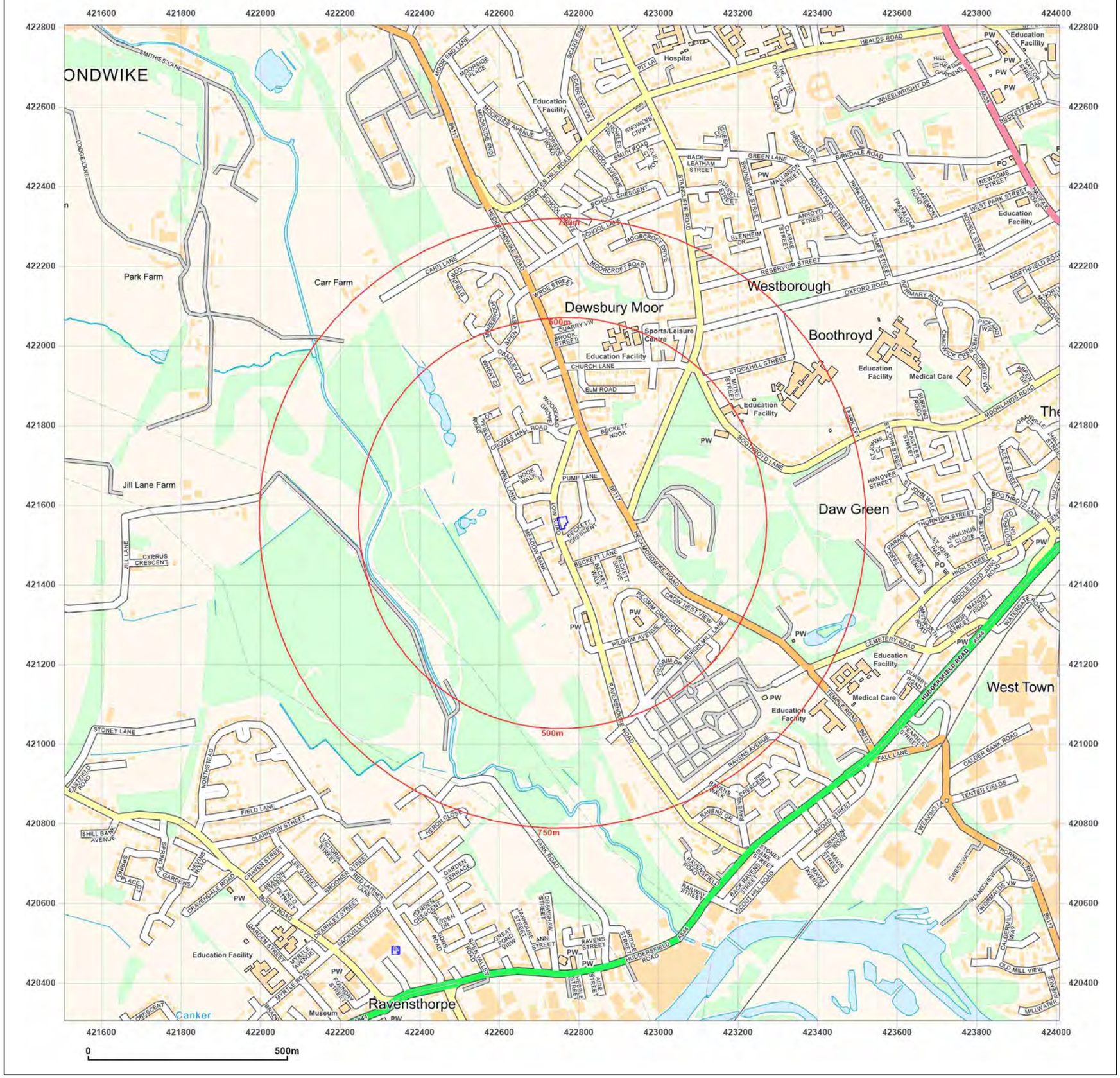
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

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

N
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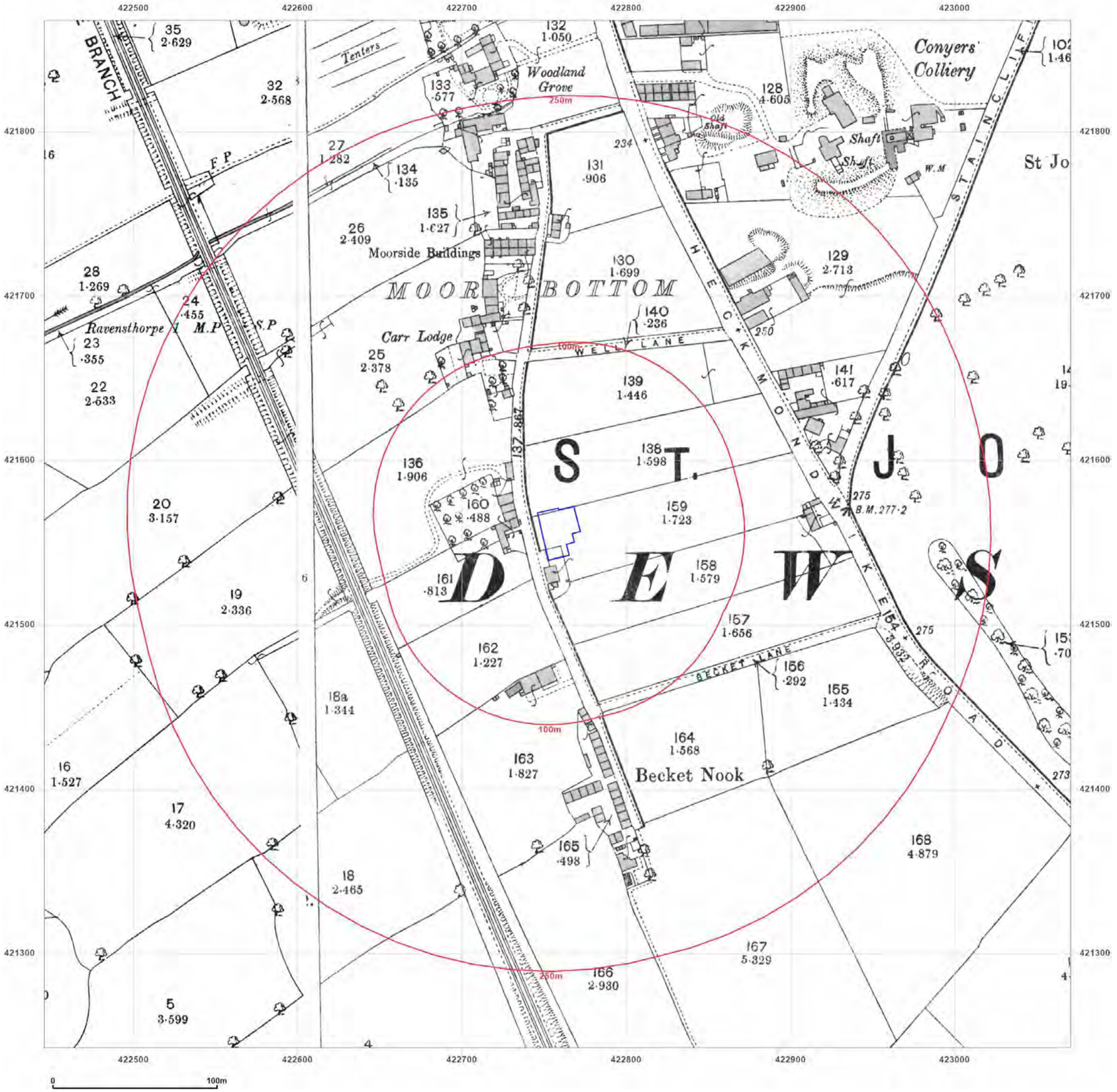
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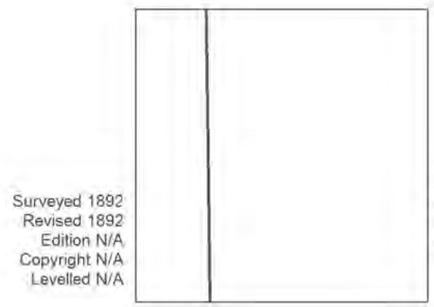
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DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: County Series
Map date: **1892-1893**
Scale: 1:2,500
Printed at: 1:2,500

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W E
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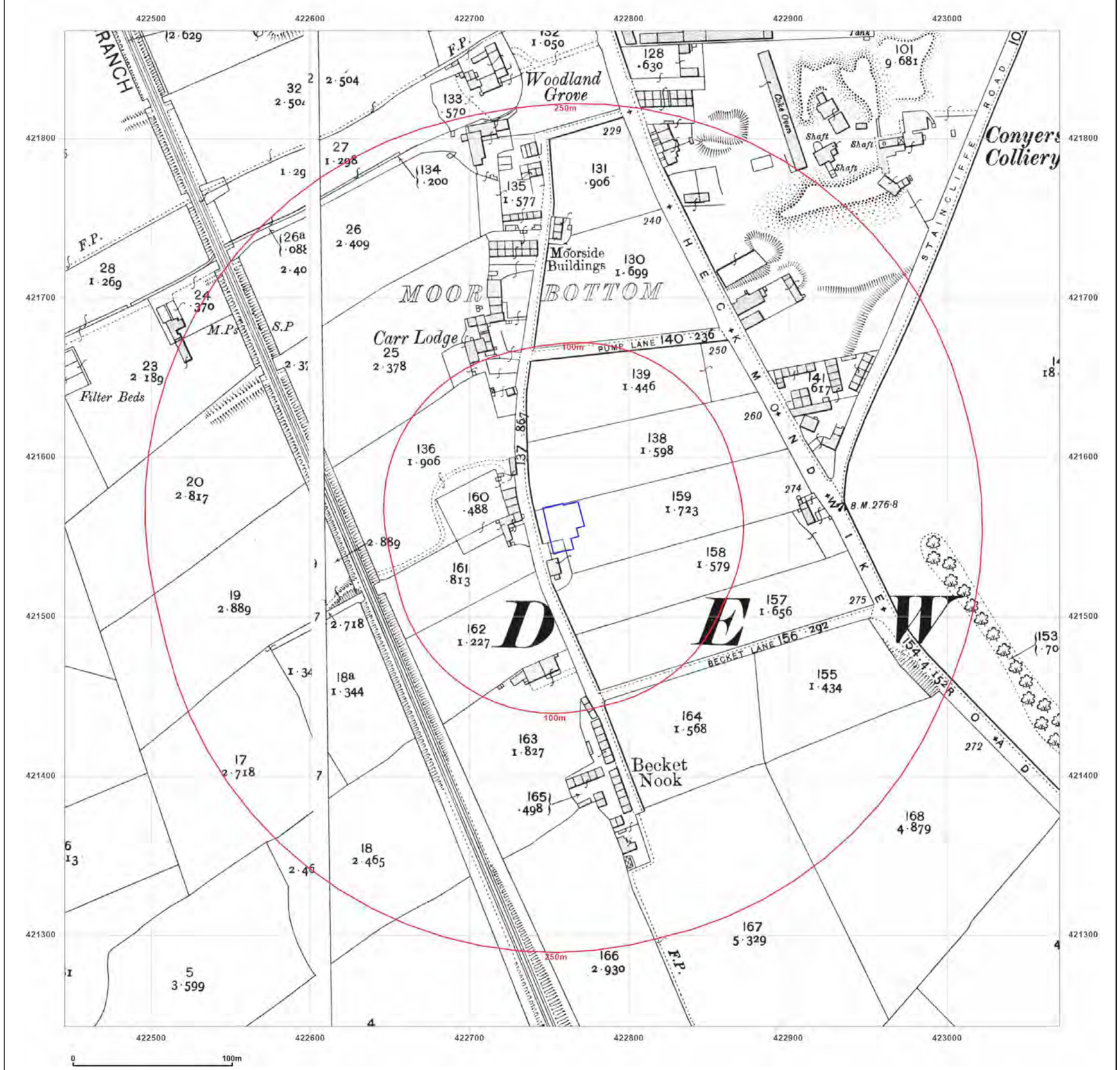
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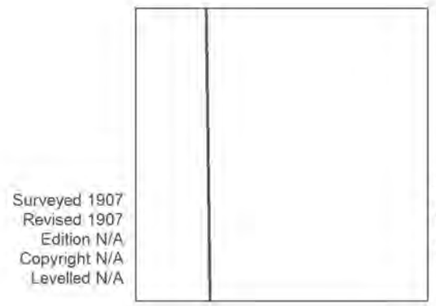
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DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: County Series
Map date: **1907**
Scale: 1:2,500
Printed at: 1:2,500

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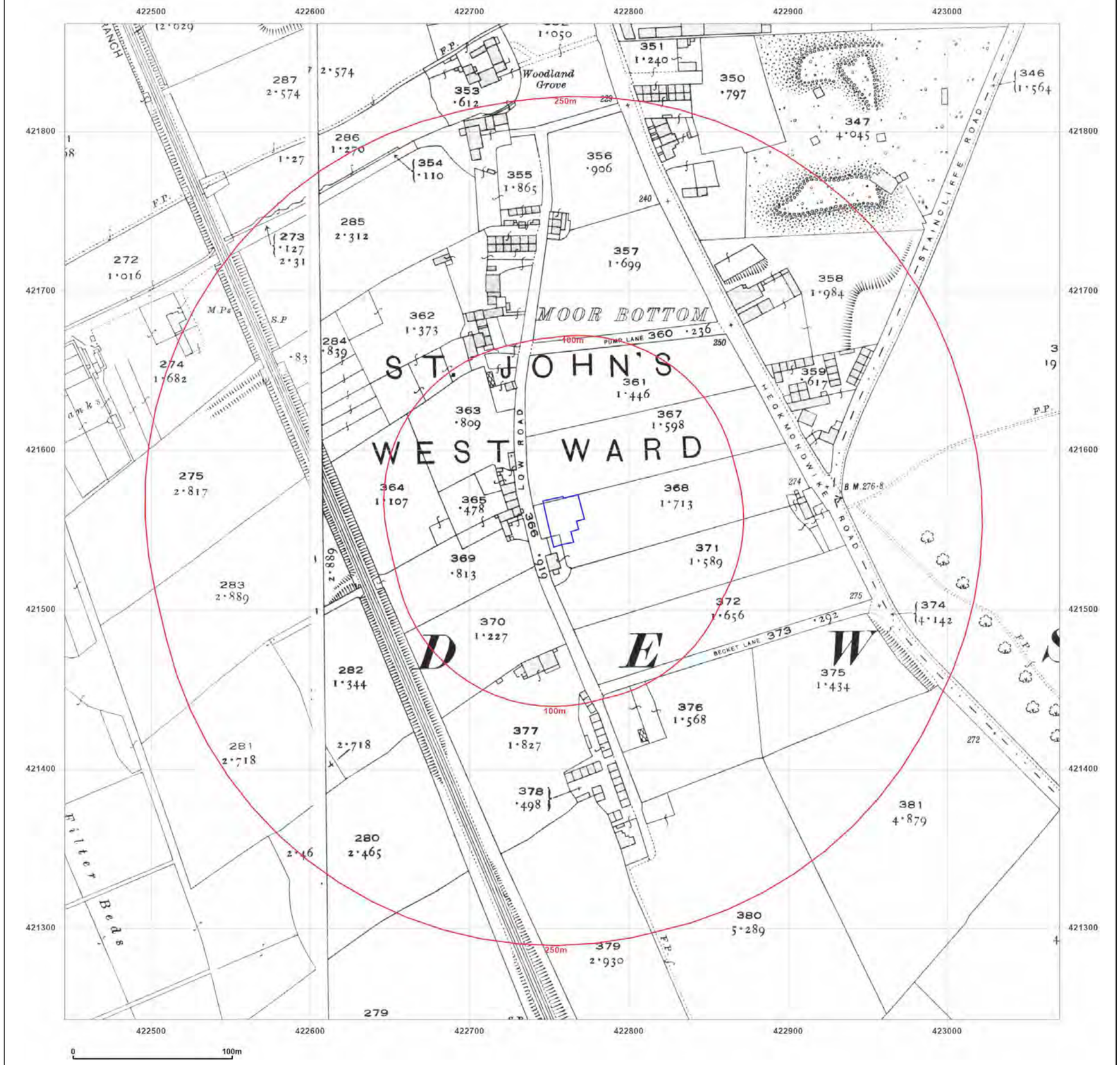
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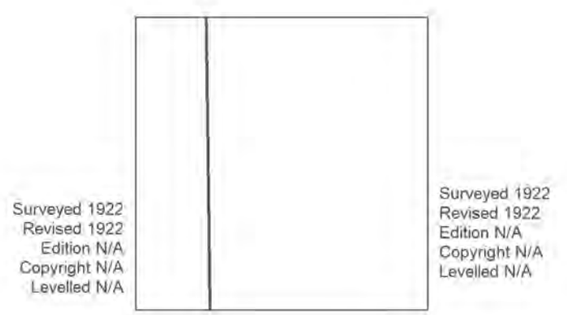
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DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: County Series
Map date: **1922**
Scale: 1:2,500
Printed at: 1:2,500

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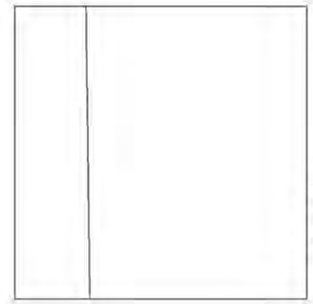
Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: County Series
Map date: **1933**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1933
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
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DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

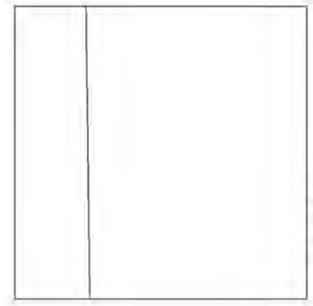
Map Name: County Series

Map date: **1938**

Scale: 1:2,500

Printed at: 1:2,500

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

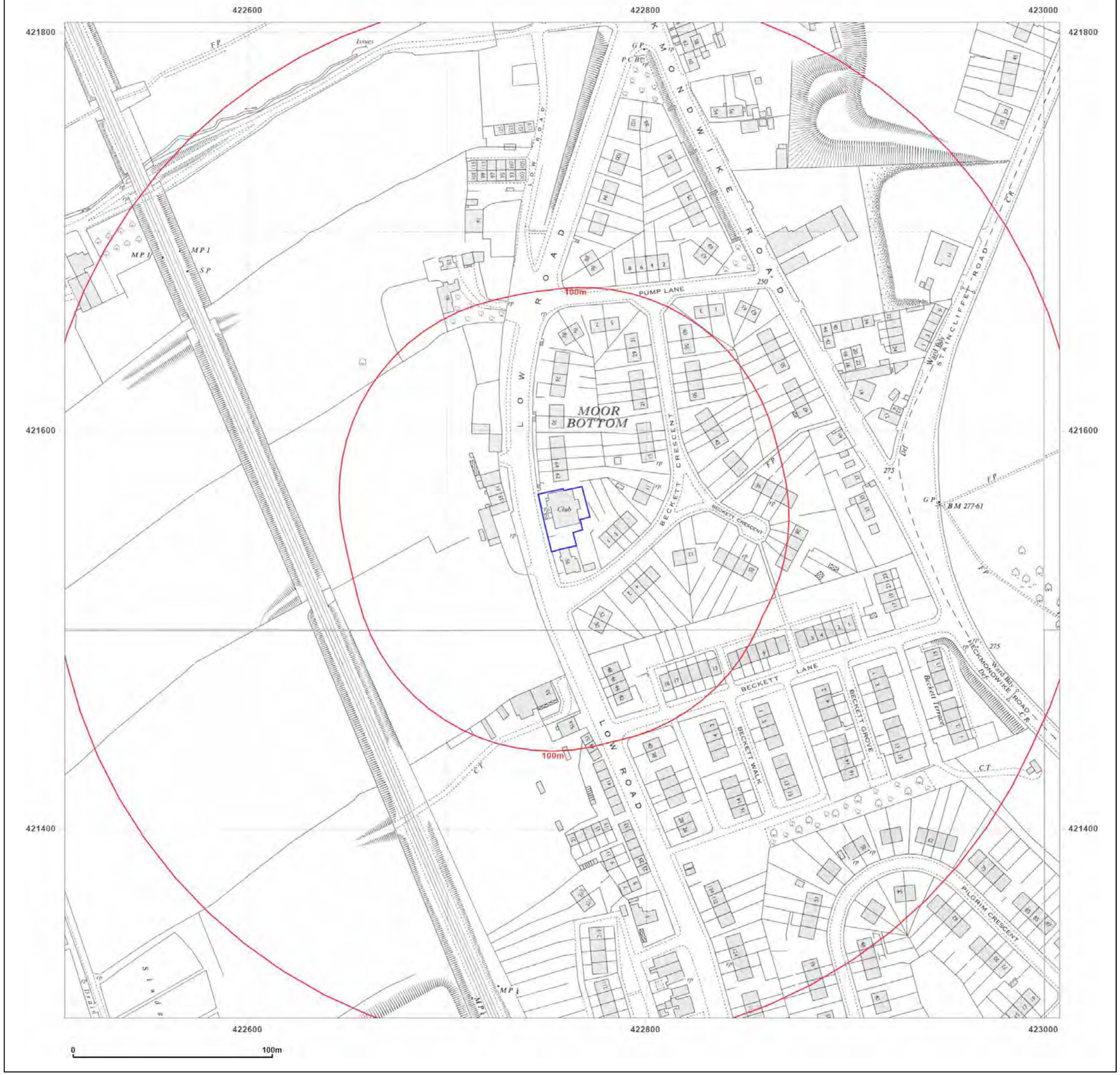
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid

Map date: **1955**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1955
Revised 1955
Edition N/A
Copyright N/A
Levelled 1931

Surveyed 1955
Revised 1955
Edition N/A
Copyright N/A
Levelled 1931

Surveyed 1955
Revised 1955
Edition N/A
Copyright N/A
Levelled 1931

Surveyed 1955
Revised 1955
Edition N/A
Copyright N/A
Levelled 1931

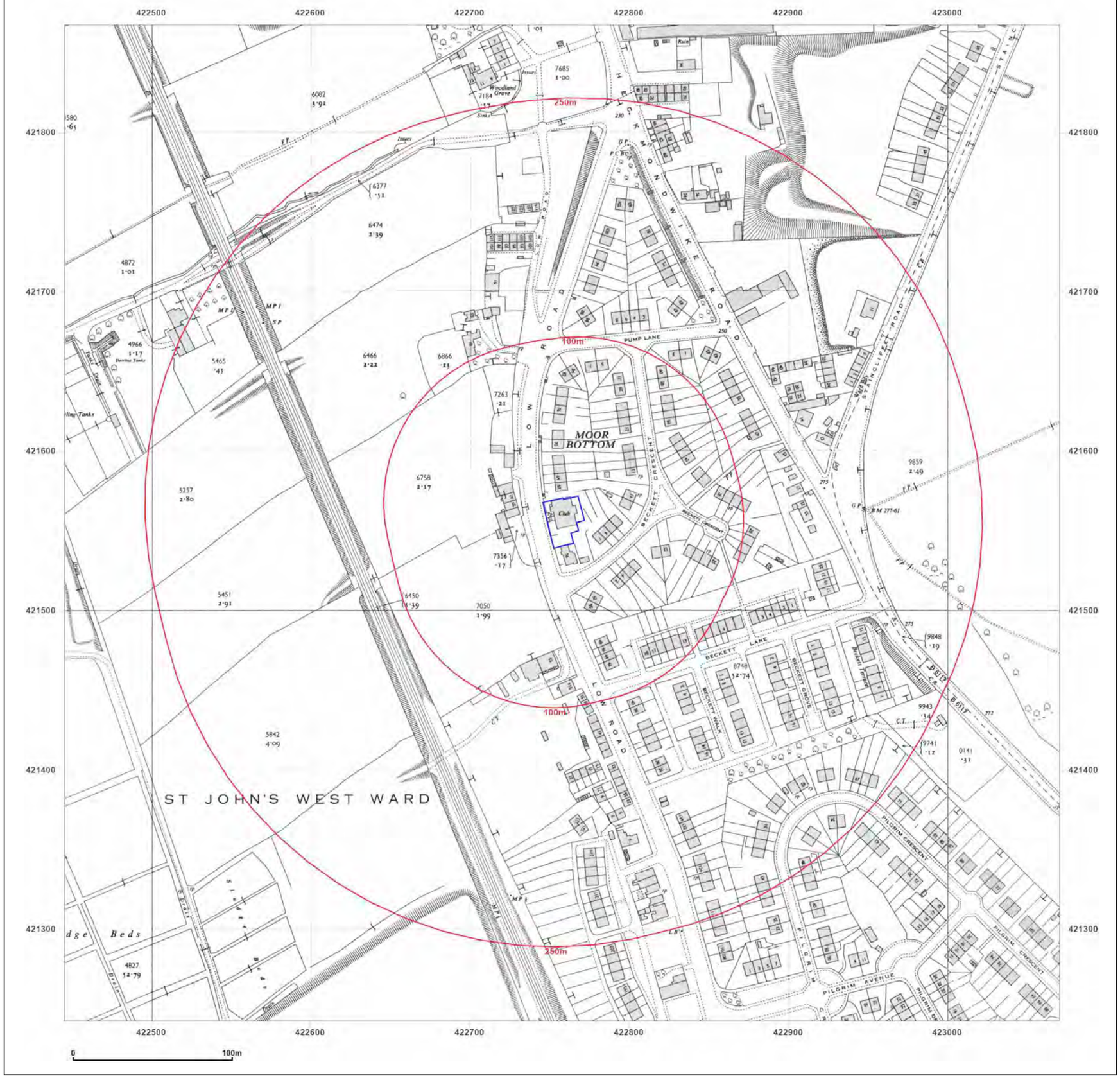
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

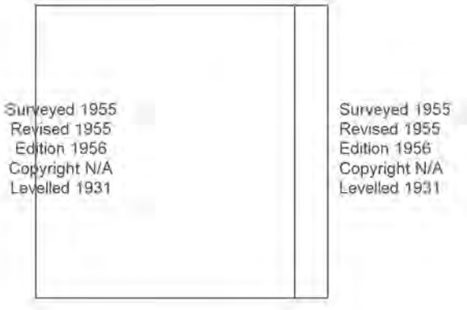
Map Name: National Grid

Map date: **1956**

Scale: 1:2,500

Printed at: 1:2,500

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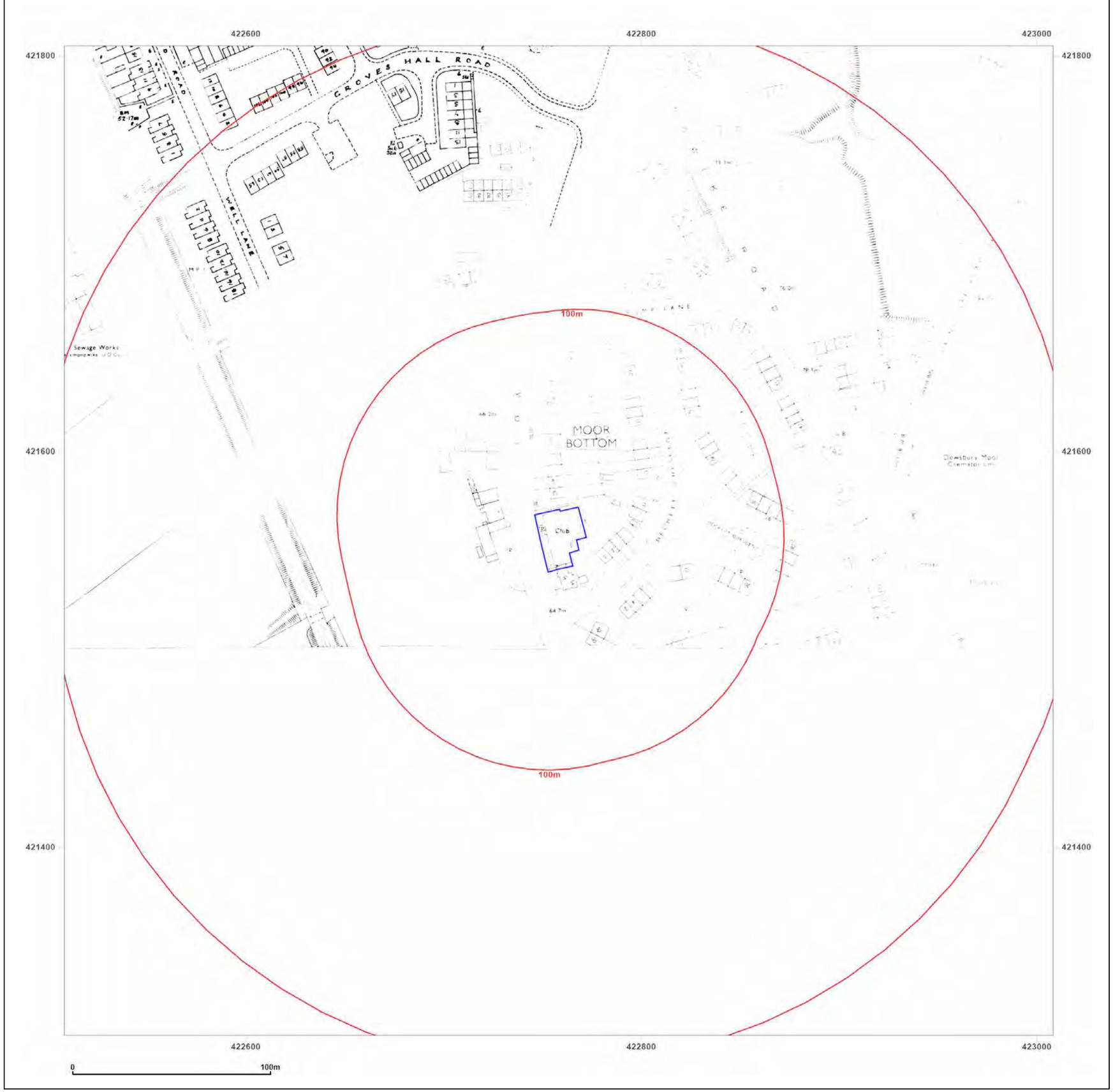
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid
Map date: **1974**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1974
Levelled N/A

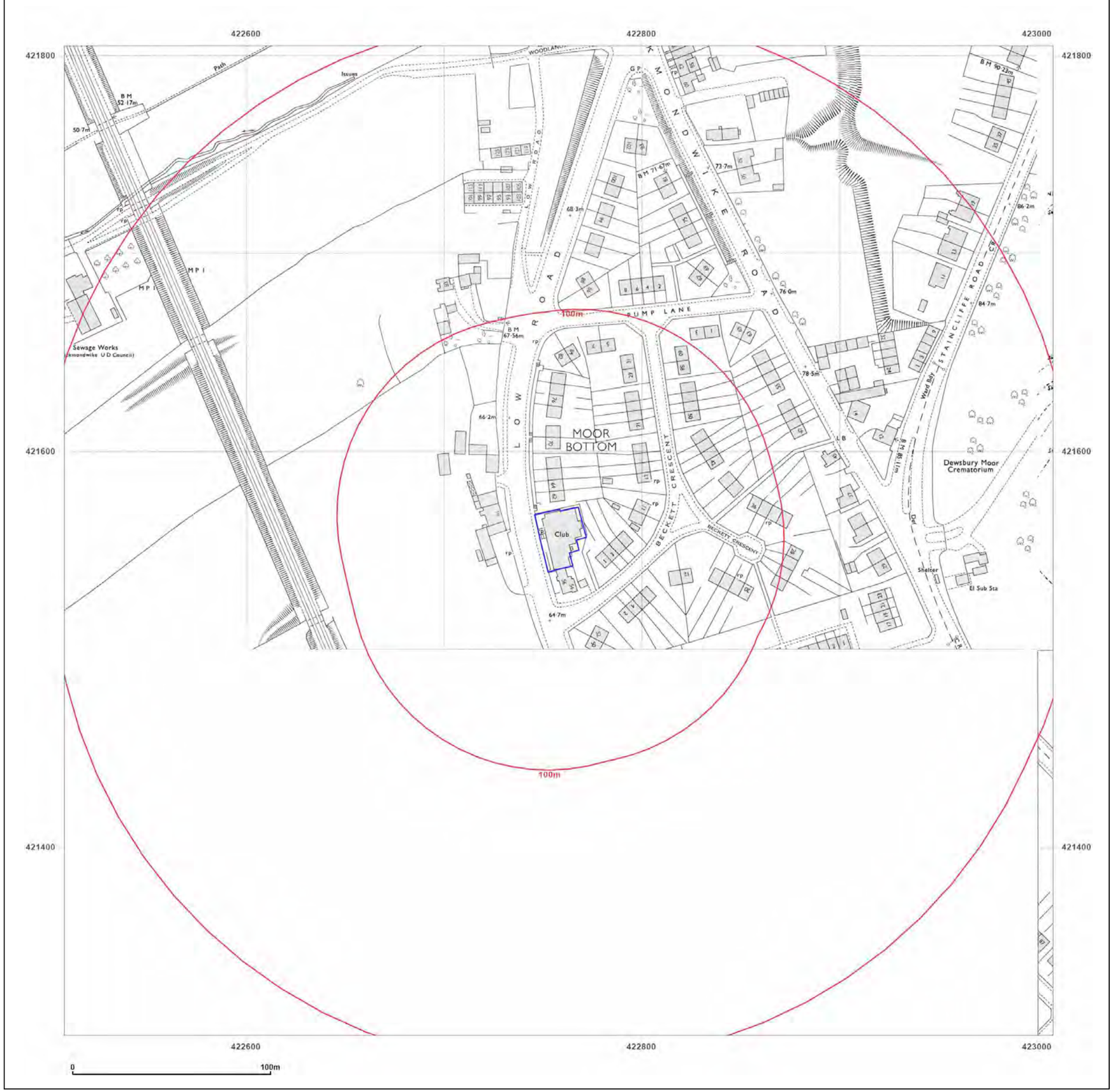
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

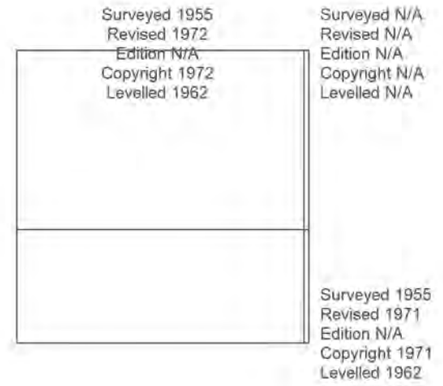
Map Name: National Grid

Map date: **1971-1976**

Scale: 1:1,250

Printed at: 1:2,000

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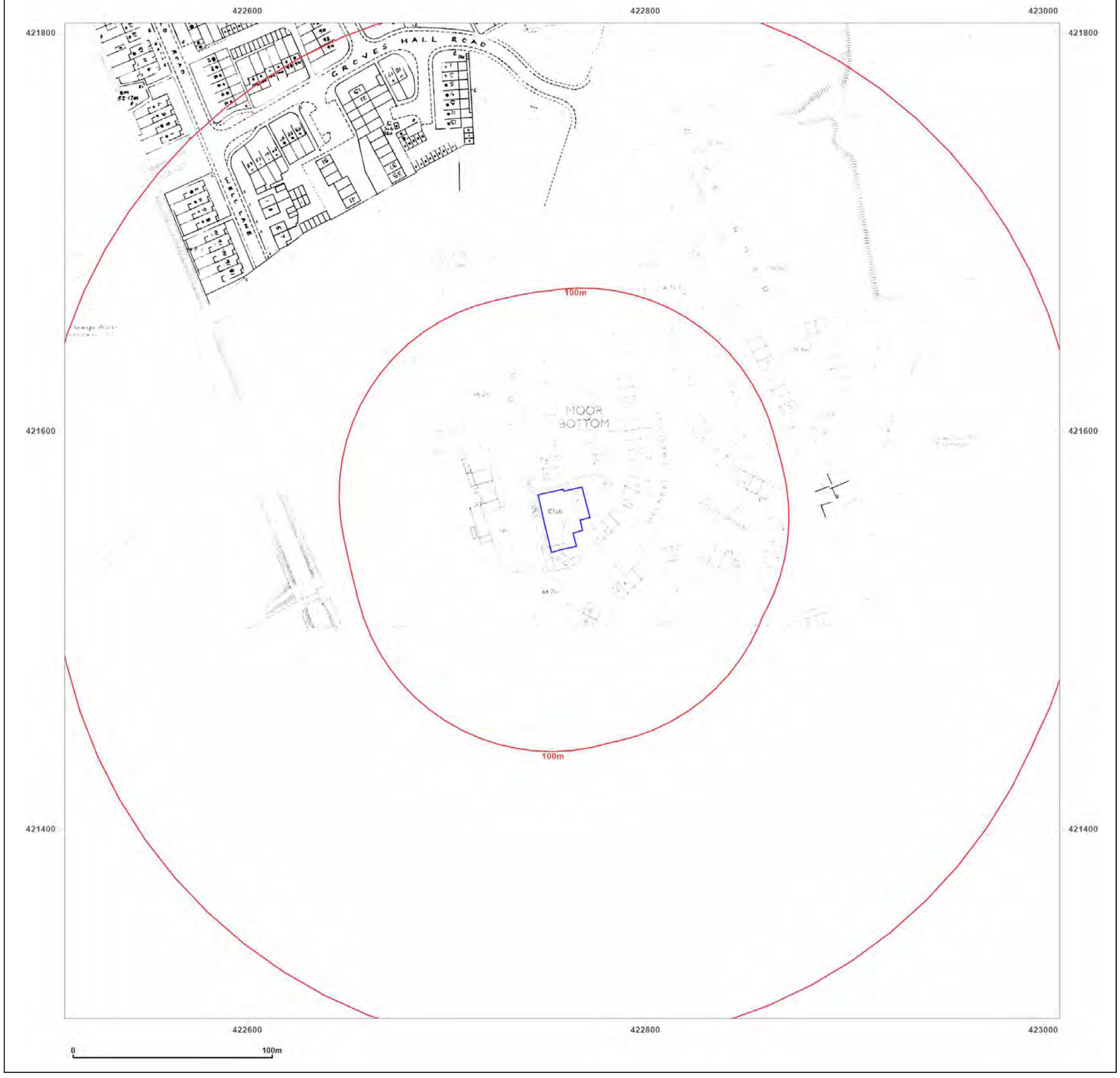
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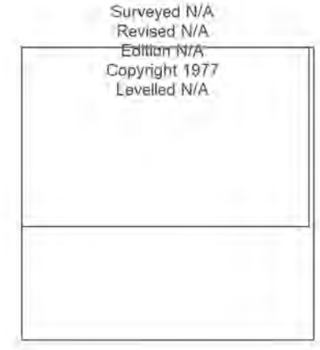
Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13 3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid
Map date: **1977**
Scale: 1:1,250
Printed at: 1:2,000

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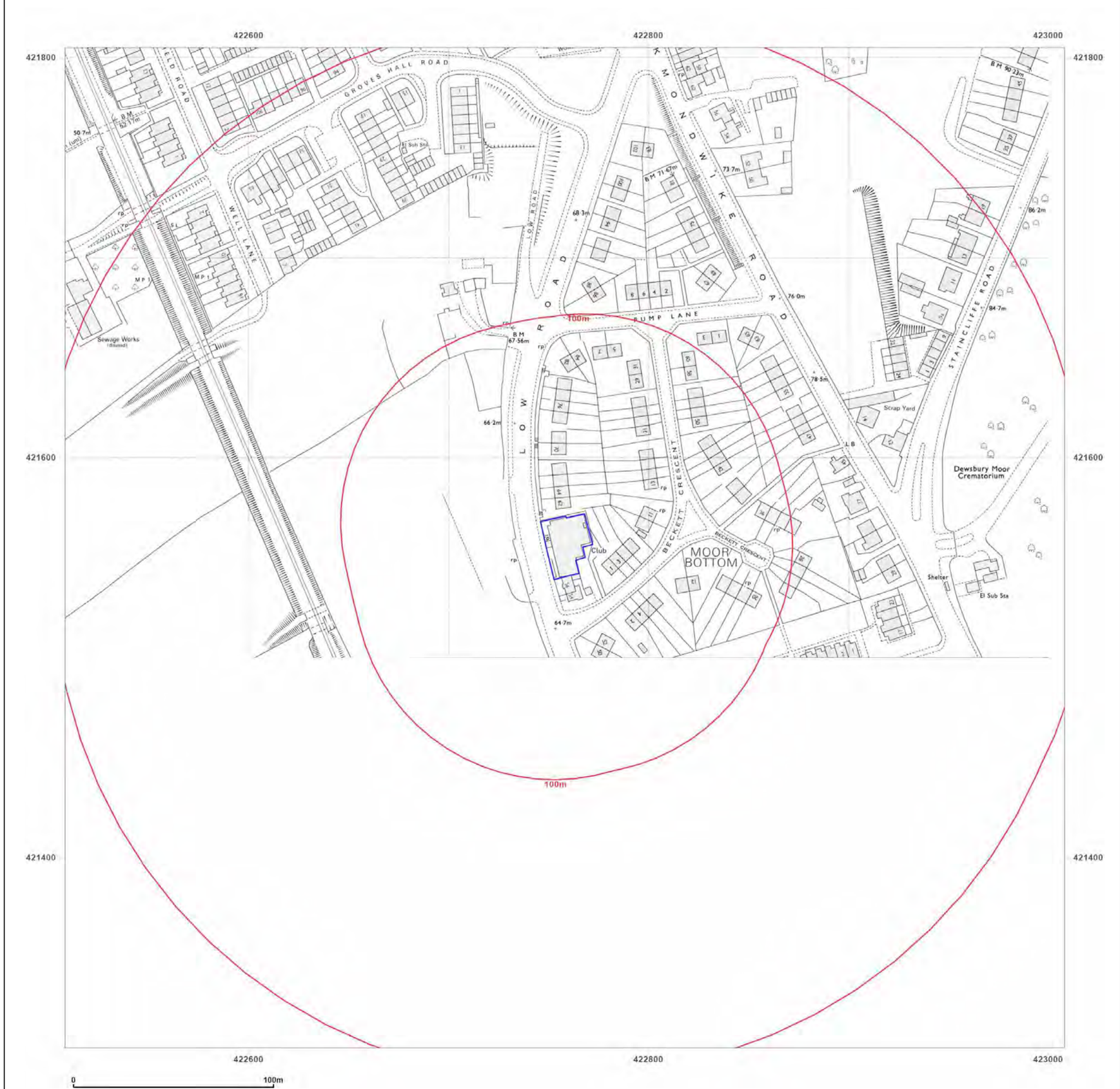
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid

Map date: **1982**

Scale: 1:1,250

Printed at: 1:2,000

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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid

Map date: **1982-1985**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1955
Revised 1982
Edition N/A
Copyright N/A
Levelled 1962

Surveyed 1962
Revised 1985
Edition N/A
Copyright 1985
Levelled 1962

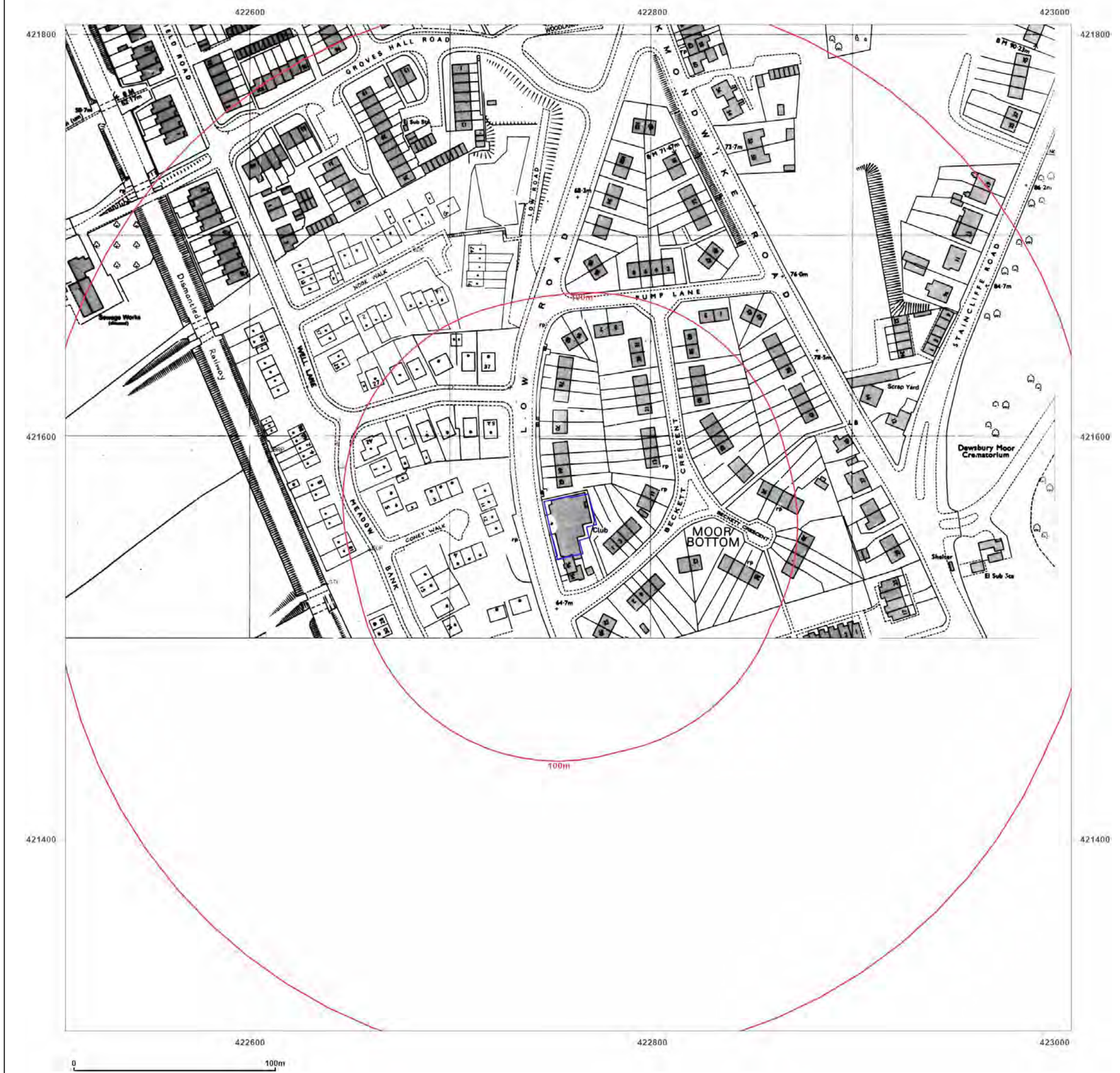
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid

Map date: **1992**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1992
Edition N/A
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid

Map date: **1988-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A Revised 1988 Edition N/A Copyright N/A Levelled 1962	Surveyed 1955 Revised 1987 Edition N/A Copyright 1989 Levelled 1963
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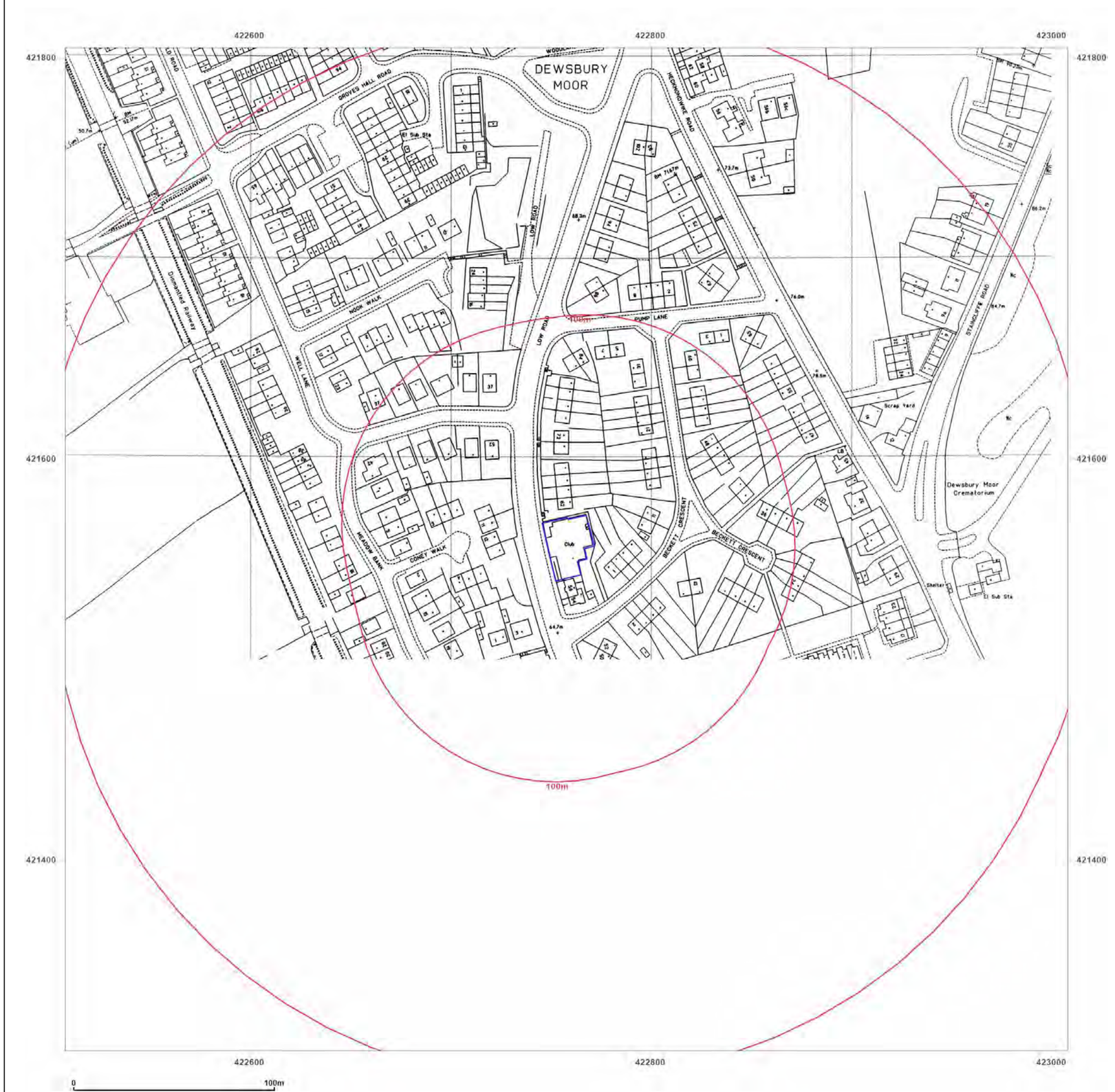
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1993
Edition N/A
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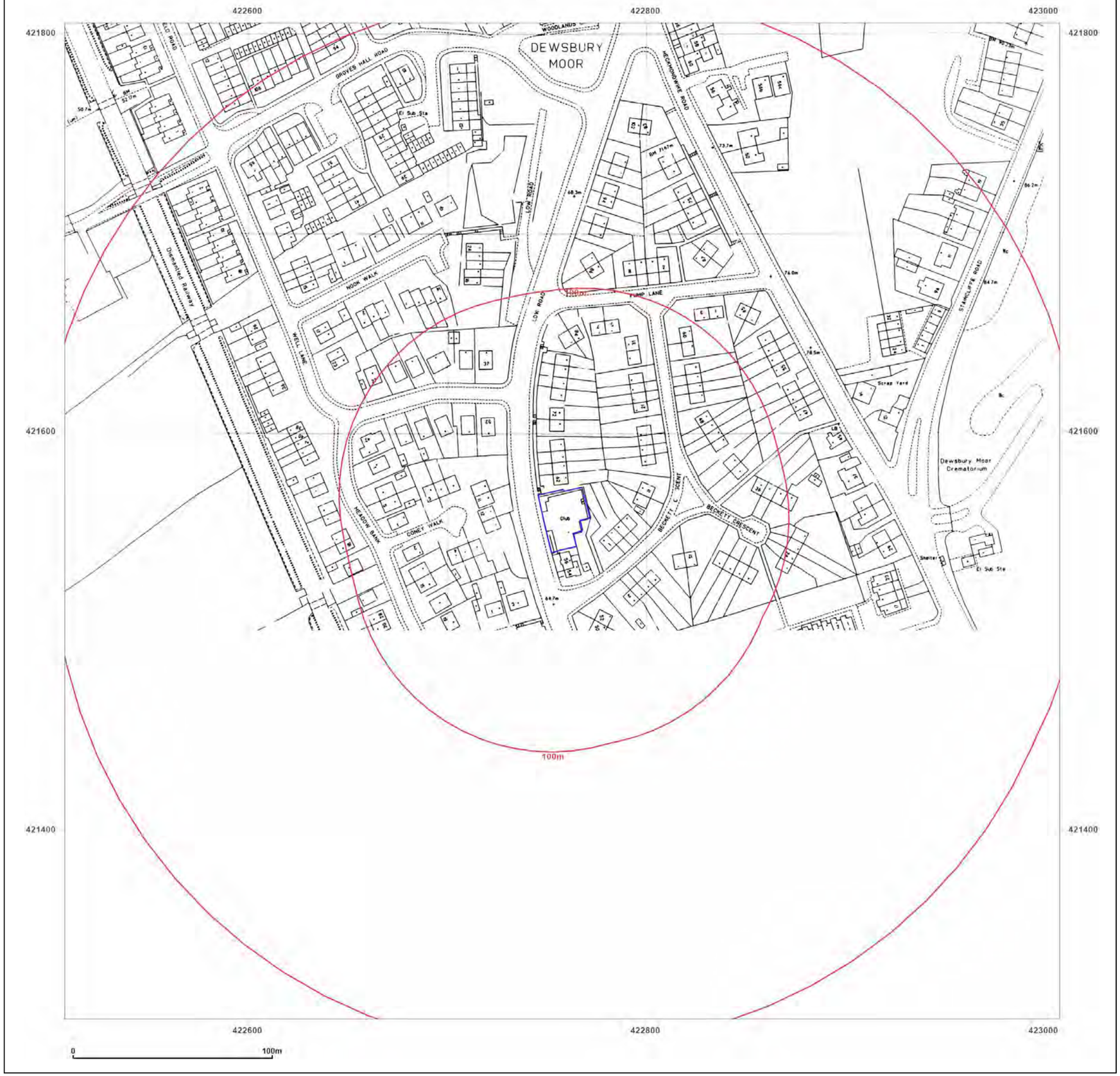
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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

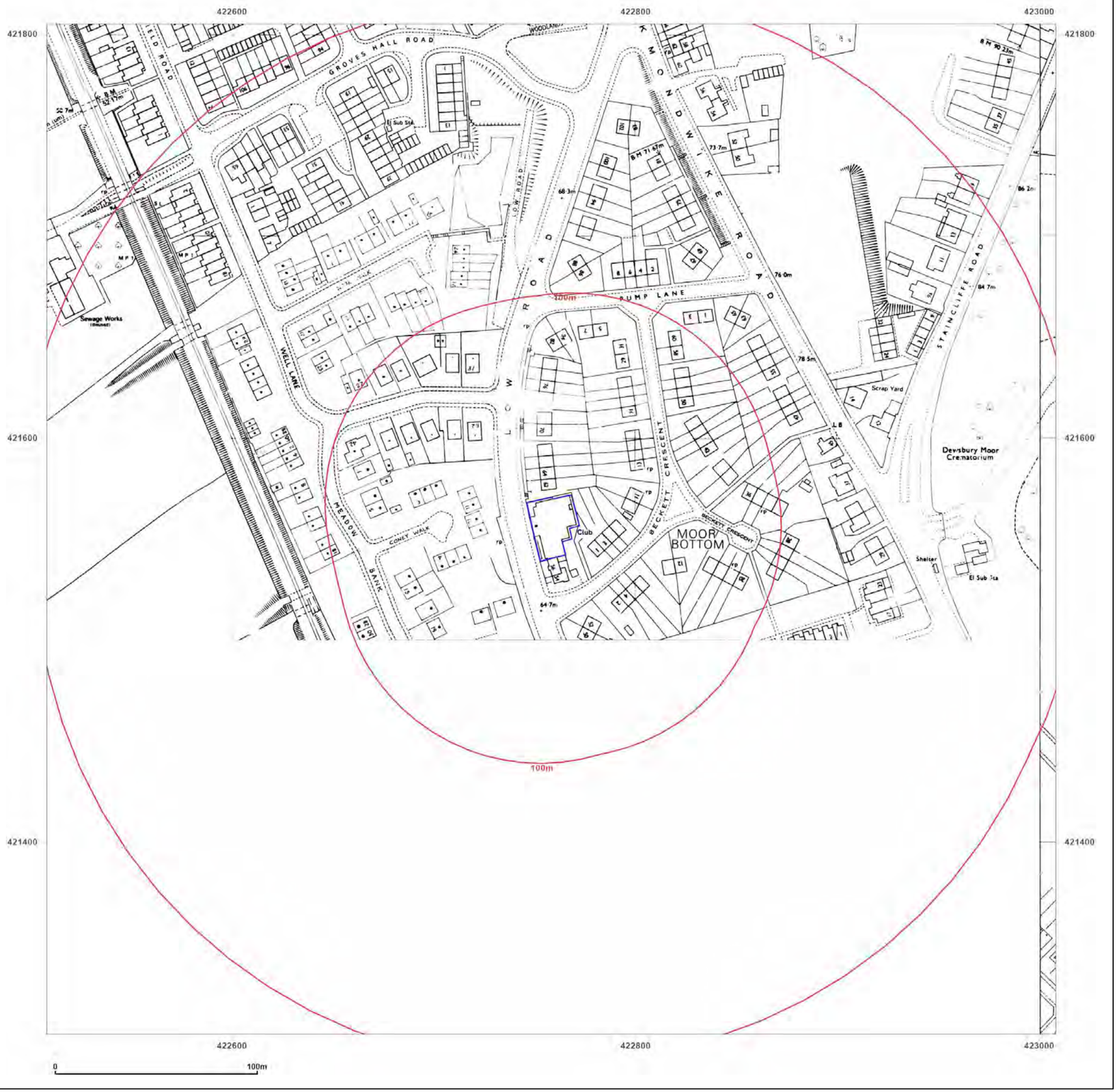
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

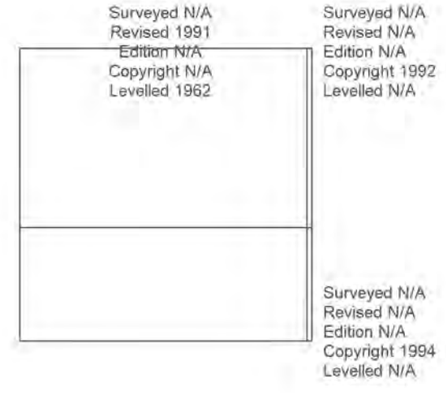
Map Name: National Grid

Map date: **1991-1994**

Scale: 1:1,250

Printed at: 1:2,000

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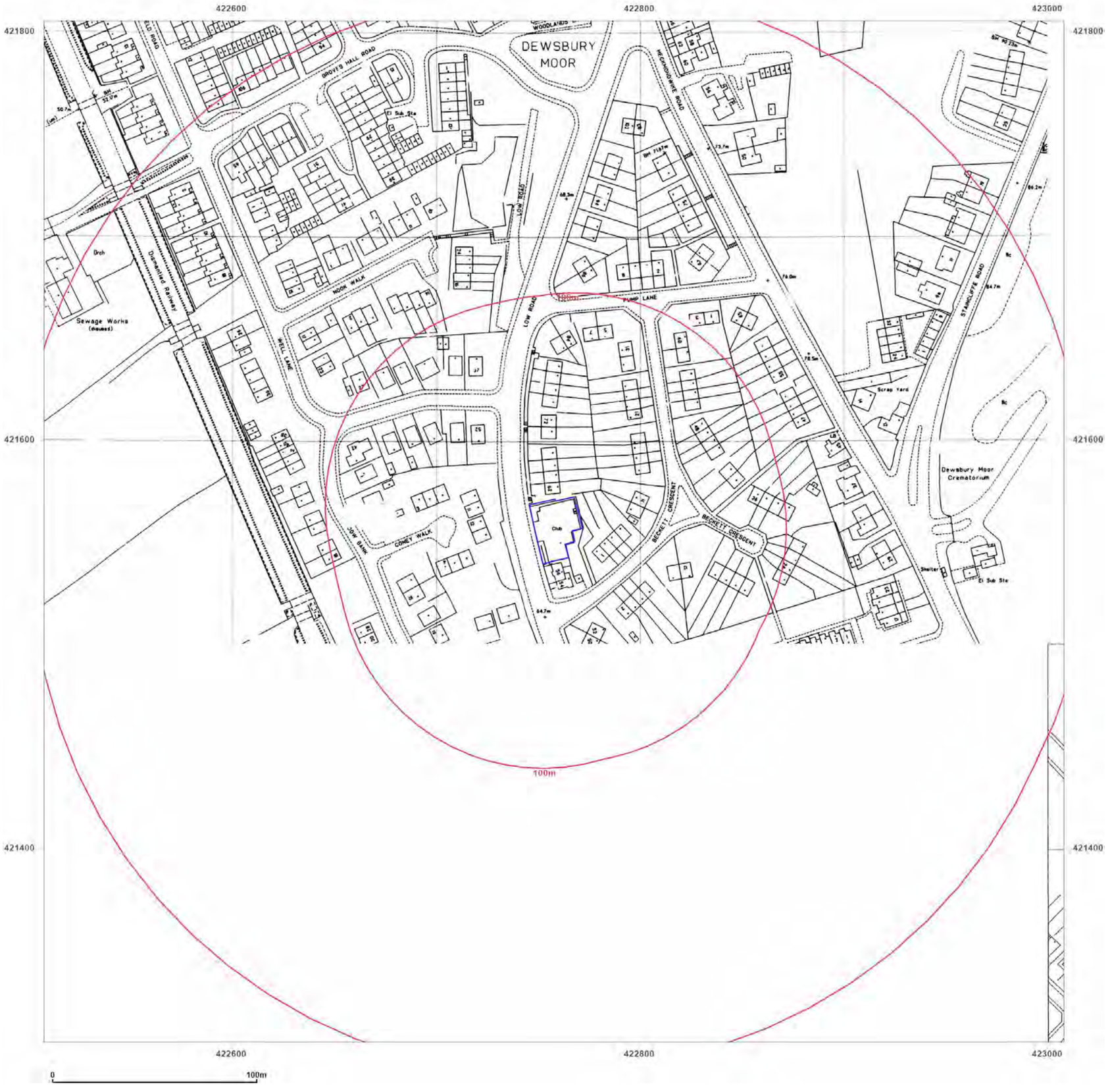
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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

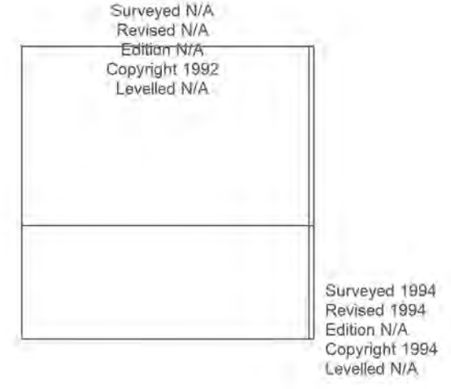
Map Name: National Grid

Map date: **1992-1994**

Scale: 1:1,250

Printed at: 1:2,000

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Groundsure INSIGHTS

Site Details:

Land adjacent LOW ROAD,
DEWSBURY MOOR,
DEWSBURY, KIRKLEES, WF13
3PR

Client Ref: C/4173/25/E/8276 - PO-3517
Report Ref: GS-6DE-VSP-VGA-PTC
Grid Ref: 422758, 421555

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

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Appendix 3

Groundsure Reports

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Land adjacent LOW ROAD, DEWSBURY MOOR, DEWSBURY, KIRKLEES, WF13 3PR

Order Details

Date: 22/08/2025

Your ref: C/4173/25/E/8276 - PO-3517

Our Ref: GS-SEH-ZJ9-O8H-UXK

Site Details

Location: 422758 421557

Area: 0.06 ha

Authority: Kirklees Council ↗



Summary of findings p. 2 >

OS MasterMap site plan p.13 >

Aerial image p. 9 >

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
14 >	1.1 >	Historical industrial land uses >	0	0	22	51	-
17 >	1.2 >	Historical tanks >	0	0	1	19	-
18 >	1.3 >	Historical energy features >	0	0	4	5	-
19	1.4	Historical petrol stations	0	0	0	0	-
19 >	1.5 >	Historical garages >	0	0	0	4	-
20	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
21 >	2.1 >	Historical industrial land uses >	0	0	28	81	-
25 >	2.2 >	Historical tanks >	0	0	1	29	-
27 >	2.3 >	Historical energy features >	0	0	11	13	-
28	2.4	Historical petrol stations	0	0	0	0	-
28 >	2.5 >	Historical garages >	0	0	0	6	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
29 >	3.1 >	Active or recent landfill >	0	0	1	0	-
30 >	3.2 >	Historical landfill (BGS records) >	0	0	0	1	-
30 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	1	0	-
30 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	2	-
31 >	3.5 >	Historical waste sites >	0	0	8	3	-
33 >	3.6 >	Licensed waste sites >	0	0	5	7	-
36 >	3.7 >	Waste exemptions >	0	0	1	3	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
38 >	4.1 >	Recent industrial land uses >	0	0	3	-	-
39	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
39	4.3	Current or recent petrol stations	0	0	0	0	-
39	4.4	Electricity cables	0	0	0	0	-
39	4.5	Gas pipelines	0	0	0	0	-

39	4.6	Sites determined as Contaminated Land	0	0	0	0	-
40	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
40	4.8	Regulated explosive sites	0	0	0	0	-
40	4.9	Hazardous substance storage/usage	0	0	0	0	-
40	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
40	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
41 >	**4.12 >**	**Licensed pollutant release (Part A(2)/B) >**	0	0	0	1	-
41	4.13	Radioactive Substance Authorisations	0	0	0	0	-
41 >	**4.14 >**	**Licensed Discharges to controlled waters >**	0	0	3	4	-
43	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
43	4.16	Pollutant release to public sewer	0	0	0	0	-
43	4.17	List 1 Dangerous Substances	0	0	0	0	-
43	4.18	List 2 Dangerous Substances	0	0	0	0	-
43	4.19	Pollution Incidents (EA/NRW)	0	0	0	0	-
44	4.20	Pollution inventory substances	0	0	0	0	-
44	4.21	Pollution inventory waste transfers	0	0	0	0	-
44	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
45 >	**5.1 >**	**Superficial aquifer >**	Identified (within 500m)				
46 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
47 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
48	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
48	5.5	Groundwater vulnerability- local information	None (within 0m)				
49 >	**5.6 >**	**Groundwater abstractions >**	0	0	0	0	26
56 >	**5.7 >**	**Surface water abstractions >**	0	0	0	0	13
59	5.8	Potable abstractions	0	0	0	0	0
59	5.9	Source Protection Zones	0	0	0	0	-
59	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m

60 >	6.1 >	Water Network (OS MasterMap) >	0	0	4	-	-
61 >	6.2 >	Surface water features >	0	0	5	-	-
61 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
62 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
62 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
63	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
63	7.2	Historical Flood Events	0	0	0	-	-
63	7.3	Flood Defences	0	0	0	-	-
64	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
64	7.5	Flood Storage Areas	0	0	0	-	-
65	7.6	Flood Zone 2	None (within 50m)				
65	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
66	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
67 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
68	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
69	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
69	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
69	10.4	Special Protection Areas (SPA)	0	0	0	0	0
69	10.5	National Nature Reserves (NNR)	0	0	0	0	0
70 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	2
70	10.7	Designated Ancient Woodland	0	0	0	0	0
70	10.8	Biosphere Reserves	0	0	0	0	0
70	10.9	Forest Parks	0	0	0	0	0
71	10.10	Marine Conservation Zones	0	0	0	0	0
71 >	10.11 >	Green Belt >	0	0	1	0	1

71	10.12	Proposed Ramsar sites	0	0	0	0	0
71	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
72	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
72	10.15	Nitrate Sensitive Areas	0	0	0	0	0
72 >	**10.16 >**	**Nitrate Vulnerable Zones >**	1	0	0	0	0
73 >	**10.17 >**	**SSSI Impact Risk Zones >**	1	-	-	-	-
74	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
75	11.1	World Heritage Sites	0	0	0	-	-
75	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
75	11.3	National Parks	0	0	0	-	-
75	11.4	Listed Buildings	0	0	0	-	-
76	11.5	Conservation Areas	0	0	0	-	-
76	11.6	Scheduled Ancient Monuments	0	0	0	-	-
76	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
77 >	**12.1 >**	**Agricultural Land Classification >**	Grade 3 (within 250m)				
78	12.2	Open Access Land	0	0	0	-	-
78	12.3	Tree Felling Licences	0	0	0	-	-
78	12.4	Environmental Stewardship Schemes	0	0	0	-	-
78	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	**Habitat designations >**	On site	0-50m	50-250m	250-500m	500-2000m
79 >	**13.1 >**	**Priority Habitat Inventory >**	0	0	4	-	-
80	13.2	Habitat Networks	0	0	0	-	-
80	13.3	Open Mosaic Habitat	0	0	0	-	-
80	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
81 >	**14.1 >**	**10k Availability >**	Identified (within 500m)				
82 >	**14.2 >**	**Artificial and made ground (10k) >**	0	0	3	5	-

84 >	14.3 >	Superficial geology (10k) >	0	0	1	0	-
85	14.4	Landslip (10k)	0	0	0	0	-
86 >	14.5 >	Bedrock geology (10k) >	1	2	9	10	-
88 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	10	12	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
89 >	15.1 >	50k Availability >	Identified (within 500m)				
90 >	15.2 >	Artificial and made ground (50k) >	0	0	1	0	-
91	15.3	Artificial ground permeability (50k)	0	0	-	-	-
92 >	15.4 >	Superficial geology (50k) >	0	0	1	0	-
93	15.5	Superficial permeability (50k)	None (within 50m)				
93	15.6	Landslip (50k)	0	0	0	0	-
93	15.7	Landslip permeability (50k)	None (within 50m)				
94 >	15.8 >	Bedrock geology (50k) >	1	1	9	11	-
96 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
96 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	10	12	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
98 >	16.1 >	BGS Boreholes >	0	1	58	-	-
Page	Section	Natural ground subsidence >					
102 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
103 >	17.2 >	Running sands >	Negligible (within 50m)				
104 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
105 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
106 >	17.5 >	Landslides >	Low (within 50m)				
108 >	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
110 >	18.1 >	BritPits >	0	0	0	1	-
111 >	18.2 >	Surface ground workings >	0	0	28	-	-
112 >	18.3 >	Underground workings >	0	0	2	0	4
113	18.4	Underground mining extents	0	0	0	0	-

113	18.5	Historical Mineral Planning Areas	0	0	0	0	-
113	18.6	Non-coal mining	0	0	0	0	0
113	18.7	JPB mining areas	None (within 0m)				
114	18.8	The Coal Authority non-coal mining	0	0	0	0	-
114	18.9	Researched mining	0	0	0	0	-
114	18.10	Mining record office plans	0	0	0	0	-
114	18.11	BGS mine plans	0	0	0	0	-
115 >	**18.12 >**	**Coal mining >**	Identified (within 0m)				
115	18.13	Brine areas	None (within 0m)				
115	18.14	Gypsum areas	None (within 0m)				
115	18.15	Tin mining	None (within 0m)				
115	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
116	19.1	Natural cavities	0	0	0	0	-
116	19.2	Mining cavities	0	0	0	0	0
116	19.3	Reported recent incidents	0	0	0	0	-
116	19.4	Historical incidents	0	0	0	0	-
Page	Section	**Radon >**					
118 >	**20.1 >**	**Radon >**	Between 1% and 3% (within 0m)				
Page	Section	**Soil chemistry >**	On site	0-50m	50-250m	250-500m	500-2000m
120 >	**21.1 >**	**BGS Estimated Background Soil Chemistry >**	1	3	-	-	-
120	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
121	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
122	22.1	Underground railways (London)	0	0	0	-	-
122	22.2	Underground railways (Non-London)	0	0	0	-	-
123	22.3	Railway tunnels	0	0	0	-	-
123 >	**22.4 >**	**Historical railway and tunnel features >**	0	0	1	-	-
123	22.5	Royal Mail tunnels	0	0	0	-	-

123 >	22.6 >	Historical railways >	0	0	3	-	-
124	22.7	Railways	0	0	0	-	-
124	22.8	Crossrail 2	0	0	0	0	-
124	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 30/05/2021

Site Area: 0.06ha

Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 0.06ha

Recent site history - 2012 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2025. All Rights Reserved.

Capture Date: 26/03/2012

Site Area: 0.06ha

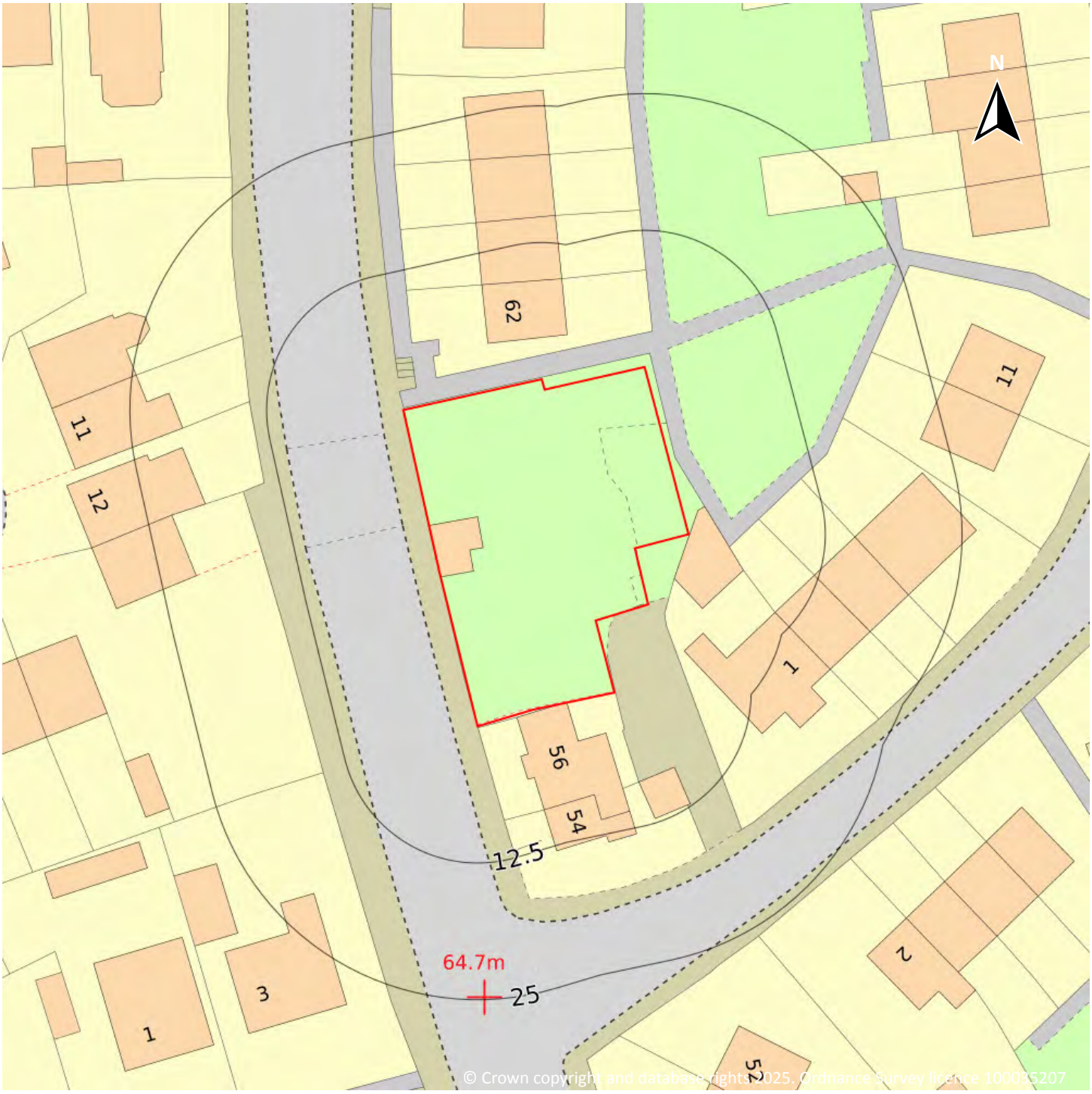
Recent site history - 1999 aerial photograph



Capture Date: 10/07/1999

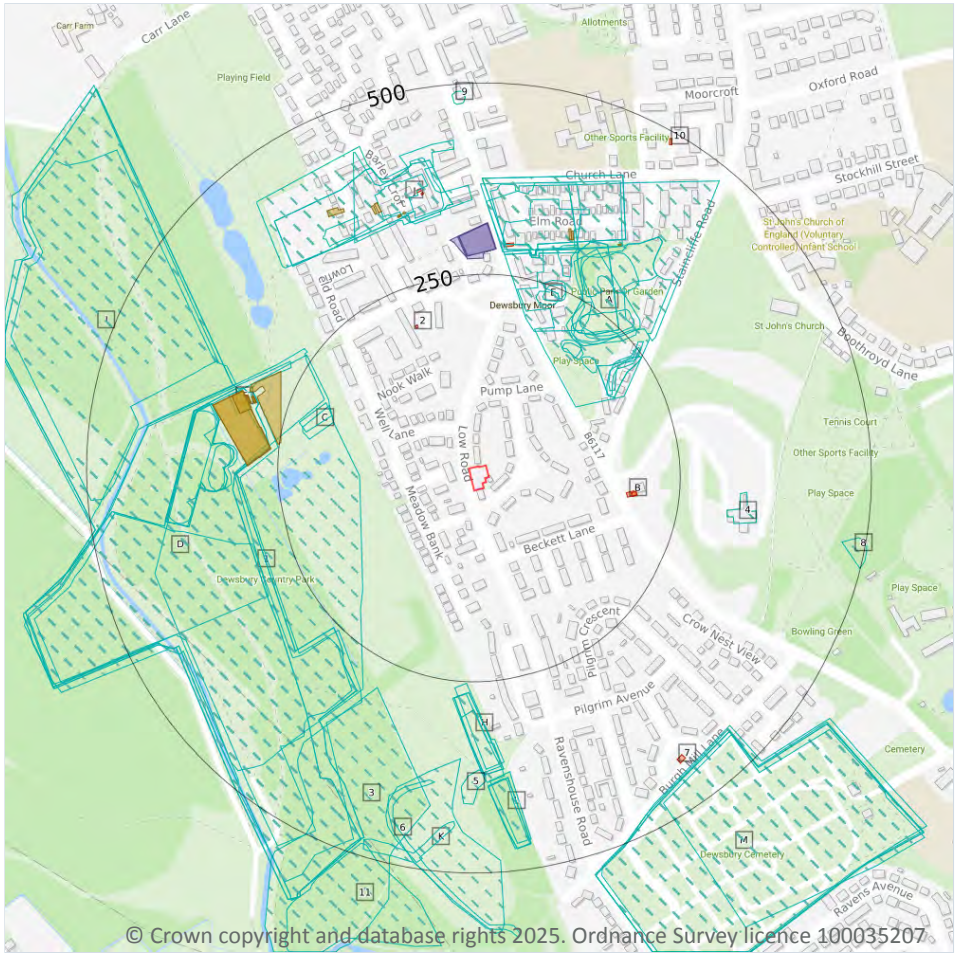
Site Area: 0.06ha

OS MasterMap site plan



Site Area: 0.06ha

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	73

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 14 >**

ID	Location	Land use	Dates present	Group ID
A	140m NE	Colliery	1905	1534392

ID	Location	Land use	Dates present	Group ID
1	143m W	Sewage Farm	1905	1442392
A	181m NE	Unspecified Pit	1905	1482555
A	181m NE	Unspecified Pit	1892	1510231
A	183m NE	Unspecified Ground Workings	1938	1546589
A	184m NE	Unspecified Heap	1892	1467829
A	184m NE	Unspecified Ground Workings	1905	1541188
A	184m NE	Unspecified Ground Workings	1948	1573062
A	186m N	Colliery	1892	1509732
C	187m W	Unspecified Heap	1892 - 1931	1516226
A	189m NE	Unspecified Ground Workings	1955	1486291
C	192m W	Unspecified Heap	1955	1568263
A	201m NE	Refuse Heap	1948	1526401
A	202m NE	Refuse Heap	1905	1581910
A	204m NE	Refuse Heap	1938	1555042
D	209m NW	Sewage Works	1938	1566686
A	212m NE	Unspecified Heap	1967 - 1974	1568765
A	212m NE	Refuse Heap	1955	1577000
A	220m NE	Refuse Heap	1892	1541716
E	224m N	Unspecified Heap	1905	1467831
E	230m N	Unspecified Pit	1892	1502764
E	239m NE	Unspecified Pit	1905	1510857
G	251m W	Disused Sewage Works	1981 - 1988	1522310
H	252m S	Cuttings	1955	1536762
D	257m SW	Sewage Works	1955 - 1967	1496447
D	257m SW	Sewage Works	1974	1570032
A	258m NE	Refuse Heap	1892	1551426
H	264m S	Cuttings	1948	1554062
H	264m S	Cuttings	1905	1555518

ID	Location	Land use	Dates present	Group ID
G	265m W	Sewage Works	1948	1549494
G	265m W	Sewage Works	1931	1572114
H	265m S	Cuttings	1938	1565243
E	268m N	Unspecified Heap	1967	1467828
G	270m SW	Sludge Beds	1967 - 1981	1488270
E	277m N	Unspecified Mill	1892	1548415
E	280m N	Unspecified Mills	1938	1562265
E	281m N	Unspecified Mill	1905	1534924
E	282m N	Unspecified Mills	1948	1580840
H	287m S	Cuttings	1892	1543505
3	287m SW	Refuse Heap	1988	1533865
E	289m N	Unspecified Commercial/Industrial	1981 - 1988	1509751
E	289m N	Unspecified Mills	1955 - 1974	1544957
F	297m W	Filter Beds	1905	1463185
D	303m W	Unspecified Tanks	1988	1554598
D	308m W	Filter Beds	1967 - 1981	1487760
D	308m W	Unspecified Tanks	1955	1503776
D	311m W	Unspecified Tanks	1948	1549902
4	314m E	Crematorium	1967 - 1988	1493760
I	324m W	Sludge Beds	1967 - 1974	1545505
J	327m N	Unspecified Mills	1938	1562061
J	330m N	Unspecified Commercial/Industrial	1988	1431964
J	330m N	Unspecified Mills	1974 - 1981	1530020
D	334m W	Unspecified Tanks	1931 - 1938	1554525
J	335m N	Unspecified Mills	1955 - 1967	1498302
J	339m NW	Mill Ponds	1905	1480499
J	340m N	Unspecified Mills	1948	1503504
K	351m S	Refuse Heap	1955	1494482

ID	Location	Land use	Dates present	Group ID
I	357m NW	Sewage Works	1931 - 1948	1482270
5	365m S	Unspecified Ground Workings	1974 - 1988	1545435
L	370m S	Cuttings	1955	1484092
L	378m S	Cuttings	1948	1488504
L	378m S	Cuttings	1905	1495177
L	378m S	Cuttings	1938	1509882
6	383m S	Refuse Heap	1948	1510885
K	433m S	Unspecified Ground Workings	1938	1530452
M	447m SE	Cemetery	1955 - 1988	1515453
M	449m SE	Cemetery	1938	1511545
M	452m SE	Cemetery	1905	1495466
M	452m SE	Cemetery	1948	1555914
M	457m SE	Cemetery	1892	1508737
8	469m E	Unspecified Pit	1967 - 1988	1525263
9	474m N	Unspecified Pit	1892	1450344
11	484m S	Refuse Heap	1974 - 1981	1547916

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**20**

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 14 >**

ID	Location	Land use	Dates present	Group ID
F	248m W	Detritus Tanks	1955	237342
F	260m W	Settling Tanks	1955 - 1956	260163

ID	Location	Land use	Dates present	Group ID
F	262m W	Tanks	1985	245219
F	291m W	Detritus Tanks	1956	237344
F	291m W	Tanks	1955	257594
F	292m W	Tanks	1985	261934
F	295m W	Tanks	1956	246396
F	298m W	Detritus Tanks	1956	237343
F	298m W	Tanks	1955	254389
F	299m W	Tanks	1985	257245
E	315m N	Unspecified Tank	1938	248003
E	316m N	Unspecified Tank	1907 - 1933	254269
A	336m NE	Unspecified Tank	1907	243222
J	341m N	Unspecified Tank	1972 - 1982	250024
J	341m N	Unspecified Tank	1982	255575
J	341m N	Unspecified Tank	1907 - 1938	247915
J	343m N	Unspecified Tank	1956	243223
J	354m N	Tanks	1938	236080
J	354m N	Tanks	1955 - 1956	248797
J	373m NW	Filter Tanks	1955 - 1972	254215

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**9**

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 14 >**

ID	Location	Land use	Dates present	Group ID
B	181m E	Electricity Substation	1982 - 1992	159074
B	187m E	Electricity Substation	1993 - 1997	149782
B	188m E	Electricity Substation	1972 - 1982	145375
2	196m N	Electricity Substation	1982 - 1997	157897
E	287m N	Electricity Substation	1982 - 1997	160993
J	362m N	Electricity Substation	1982	143941
J	366m N	Electricity Substation	1972 - 1982	156477
7	434m SE	Electricity Substation	1955 - 1994	153178
10	483m NE	Electricity Substation	1989	143076

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 14 >**

ID	Location	Land use	Dates present	Group ID
E	271m N	Garage	1972	52254
E	275m N	Garage	1982 - 1992	50508

ID	Location	Land use	Dates present	Group ID
E	275m N	Garage	1982	51602
E	275m N	Garage	1993 - 1997	51571

This data is sourced from Ordnance Survey / Groundsure.

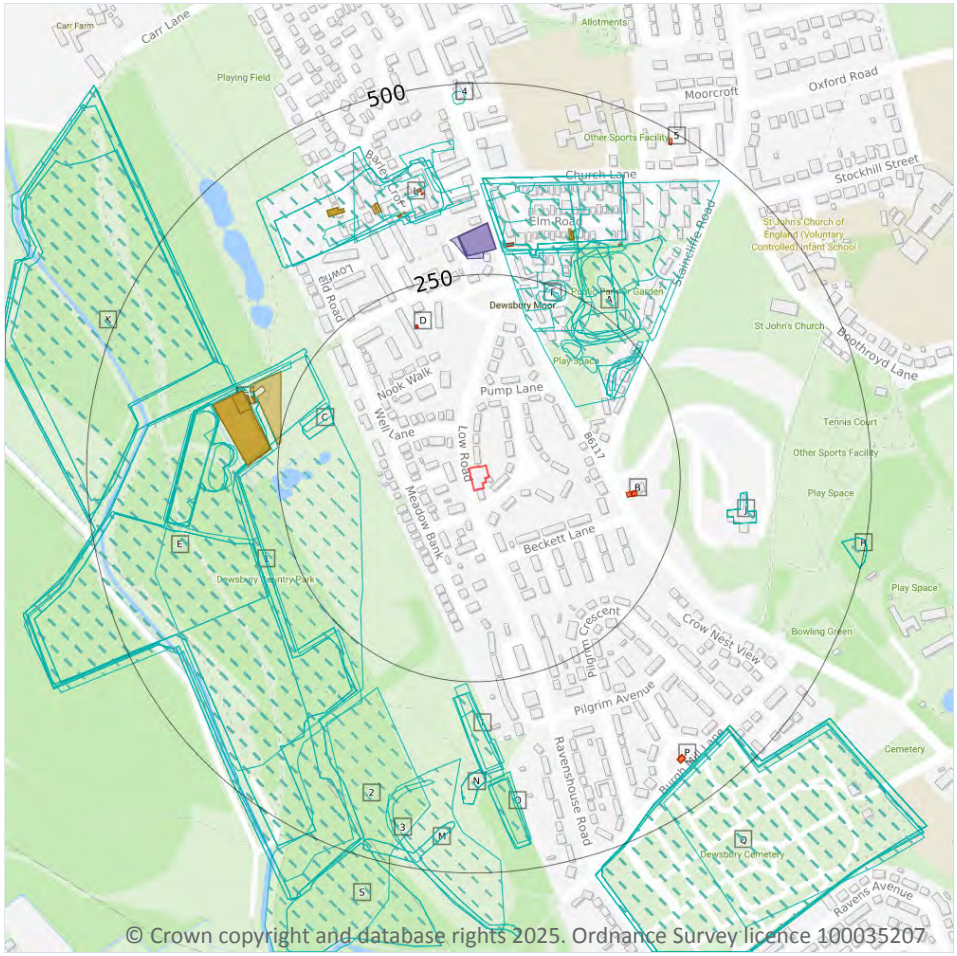
1.6 Historical military land

Records within 500m	**0**

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

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

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	109

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

Features are displayed on the Past land use - un-grouped map on **page 21 >**

ID	Location	Land Use	Date	Group ID
A	140m NE	Colliery	1905	1534392
1	143m W	Sewage Farm	1905	1442392
A	181m NE	Unspecified Pit	1905	1482555

ID	Location	Land Use	Date	Group ID
A	181m NE	Unspecified Pit	1892	1510231
A	183m NE	Unspecified Ground Workings	1938	1546589
A	183m NE	Unspecified Ground Workings	1938	1546589
A	184m NE	Unspecified Heap	1892	1467829
A	184m NE	Unspecified Ground Workings	1948	1573062
A	184m NE	Unspecified Ground Workings	1905	1541188
A	186m N	Colliery	1892	1509732
C	187m W	Unspecified Heap	1905	1516226
C	187m W	Unspecified Heap	1892	1516226
C	187m W	Unspecified Heap	1931	1516226
A	189m NE	Unspecified Ground Workings	1955	1486291
C	192m W	Unspecified Heap	1955	1568263
A	201m NE	Refuse Heap	1948	1526401
A	202m NE	Refuse Heap	1905	1581910
A	204m NE	Refuse Heap	1938	1555042
A	204m NE	Refuse Heap	1938	1555042
E	209m NW	Sewage Works	1938	1566686
E	209m NW	Sewage Works	1938	1566686
A	212m NE	Unspecified Heap	1974	1568765
A	212m NE	Unspecified Heap	1967	1568765
A	212m NE	Refuse Heap	1955	1577000
A	220m NE	Refuse Heap	1892	1541716
F	224m N	Unspecified Heap	1905	1467831
F	230m N	Unspecified Pit	1892	1502764
F	239m NE	Unspecified Pit	1905	1510857
H	251m W	Disused Sewage Works	1981	1522310
I	252m S	Cuttings	1955	1536762
E	257m SW	Sewage Works	1974	1570032

ID	Location	Land Use	Date	Group ID
E	257m SW	Sewage Works	1967	1496447
E	257m SW	Sewage Works	1955	1496447
E	257m W	Disused Sewage Works	1988	1522310
A	258m NE	Refuse Heap	1892	1551426
I	264m S	Cuttings	1948	1554062
I	264m S	Cuttings	1905	1555518
H	265m W	Sewage Works	1948	1549494
H	265m W	Sewage Works	1931	1572114
I	265m S	Cuttings	1938	1565243
F	268m N	Unspecified Heap	1967	1467828
H	270m SW	Sludge Beds	1981	1488270
H	270m SW	Sludge Beds	1974	1488270
H	270m SW	Sludge Beds	1967	1488270
F	277m N	Unspecified Mill	1892	1548415
F	280m N	Unspecified Mills	1938	1562265
F	281m N	Unspecified Mill	1905	1534924
F	282m N	Unspecified Mills	1948	1580840
I	287m S	Cuttings	1892	1543505
2	287m SW	Refuse Heap	1988	1533865
F	289m N	Unspecified Commercial/Industrial	1988	1509751
F	289m N	Unspecified Commercial/Industrial	1981	1509751
F	289m N	Unspecified Mills	1974	1544957
F	289m N	Unspecified Mills	1967	1544957
F	289m N	Unspecified Mills	1955	1544957
G	297m W	Filter Beds	1905	1463185
E	303m W	Unspecified Tanks	1988	1554598
E	308m W	Filter Beds	1981	1487760
E	308m W	Filter Beds	1974	1487760

ID	Location	Land Use	Date	Group ID
E	308m W	Filter Beds	1967	1487760
E	308m W	Unspecified Tanks	1955	1503776
E	311m W	Unspecified Tanks	1948	1549902
J	314m E	Crematorium	1988	1493760
J	314m E	Crematorium	1981	1493760
J	314m E	Crematorium	1974	1493760
J	314m E	Crematorium	1967	1493760
K	324m W	Sludge Beds	1974	1545505
K	324m W	Sludge Beds	1967	1545505
L	327m N	Unspecified Mills	1938	1562061
L	330m N	Unspecified Commercial/Industrial	1988	1431964
L	330m N	Unspecified Mills	1981	1530020
L	330m N	Unspecified Mills	1974	1530020
E	334m W	Unspecified Tanks	1931	1554525
L	335m N	Unspecified Mills	1967	1498302
L	335m N	Unspecified Mills	1955	1498302
E	335m W	Unspecified Tanks	1938	1554525
L	339m NW	Mill Ponds	1905	1480499
L	340m N	Unspecified Mills	1948	1503504
M	351m S	Refuse Heap	1955	1494482
K	357m NW	Sewage Works	1938	1482270
K	357m NW	Sewage Works	1938	1482270
K	362m NW	Sewage Works	1948	1482270
K	362m NW	Sewage Works	1931	1482270
N	365m S	Unspecified Ground Workings	1988	1545435
N	365m S	Unspecified Ground Workings	1981	1545435
N	365m S	Unspecified Ground Workings	1974	1545435
O	370m S	Cuttings	1955	1484092

ID	Location	Land Use	Date	Group ID
O	378m S	Cuttings	1948	1488504
O	378m S	Cuttings	1905	1495177
O	378m S	Cuttings	1938	1509882
3	383m S	Refuse Heap	1948	1510885
M	433m S	Unspecified Ground Workings	1938	1530452
M	433m S	Unspecified Ground Workings	1938	1530452
Q	447m SE	Cemetery	1988	1515453
Q	447m SE	Cemetery	1981	1515453
Q	447m SE	Cemetery	1974	1515453
Q	447m SE	Cemetery	1967	1515453
Q	447m SE	Cemetery	1955	1515453
Q	449m SE	Cemetery	1938	1511545
Q	452m SE	Cemetery	1948	1555914
Q	452m SE	Cemetery	1905	1495466
Q	457m SE	Cemetery	1892	1508737
R	469m E	Unspecified Pit	1988	1525263
R	469m E	Unspecified Pit	1981	1525263
R	469m E	Unspecified Pit	1974	1525263
R	469m E	Unspecified Pit	1967	1525263
4	474m N	Unspecified Pit	1892	1450344
S	484m S	Refuse Heap	1981	1547916
S	484m S	Refuse Heap	1974	1547916

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	30

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

Features are displayed on the Past land use - un-grouped map on **page 21 >**

ID	Location	Land Use	Date	Group ID
G	248m W	Detritus Tanks	1955	237342
G	260m W	Settling Tanks	1956	260163
G	261m W	Settling Tanks	1955	260163
G	262m W	Tanks	1985	245219
G	291m W	Detritus Tanks	1956	237344
G	291m W	Tanks	1955	257594
G	292m W	Tanks	1985	261934
G	295m W	Tanks	1956	246396
G	298m W	Detritus Tanks	1956	237343
G	298m W	Tanks	1955	254389
G	299m W	Tanks	1985	257245
F	315m N	Unspecified Tank	1938	248003
F	316m N	Unspecified Tank	1907	254269
F	316m N	Unspecified Tank	1922	254269
F	316m N	Unspecified Tank	1933	254269
A	336m NE	Unspecified Tank	1907	243222
L	341m N	Unspecified Tank	1982	250024
L	341m N	Unspecified Tank	1972	250024
L	341m N	Unspecified Tank	1982	255575
L	341m N	Unspecified Tank	1907	247915
L	341m N	Unspecified Tank	1922	247915
L	341m N	Unspecified Tank	1933	247915
L	341m N	Unspecified Tank	1938	247915
L	343m N	Unspecified Tank	1956	243223
L	354m N	Tanks	1938	236080
L	354m N	Tanks	1955	248797
L	355m N	Tanks	1956	248797

ID	Location	Land Use	Date	Group ID
L	373m NW	Filter Tanks	1956	254215
L	373m NW	Filter Tanks	1972	254215
L	373m NW	Filter Tanks	1955	254215

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m **24**

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

Features are displayed on the Past land use - un-grouped map on **page 21 >**

ID	Location	Land Use	Date	Group ID
B	181m E	Electricity Substation	1982	159074
B	181m E	Electricity Substation	1992	159074
B	187m E	Electricity Substation	1997	149782
B	187m E	Electricity Substation	1993	149782
B	188m E	Electricity Substation	1982	145375
B	188m E	Electricity Substation	1972	145375
D	196m N	Electricity Substation	1982	157897
D	196m N	Electricity Substation	1992	157897
D	196m N	Electricity Substation	1997	157897
D	196m N	Electricity Substation	1993	157897
D	196m N	Electricity Substation	1982	157897
F	287m N	Electricity Substation	1982	160993
F	287m N	Electricity Substation	1992	160993
F	287m N	Electricity Substation	1982	160993
F	288m N	Electricity Substation	1997	160993
F	288m N	Electricity Substation	1993	160993
L	362m N	Electricity Substation	1982	143941

ID	Location	Land Use	Date	Group ID
L	366m N	Electricity Substation	1982	156477
L	366m N	Electricity Substation	1972	156477
P	434m SE	Electricity Substation	1955	153178
P	434m SE	Electricity Substation	1971	153178
P	434m SE	Electricity Substation	1956	153178
P	435m SE	Electricity Substation	1994	153178
5	483m NE	Electricity Substation	1989	143076

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	**6**

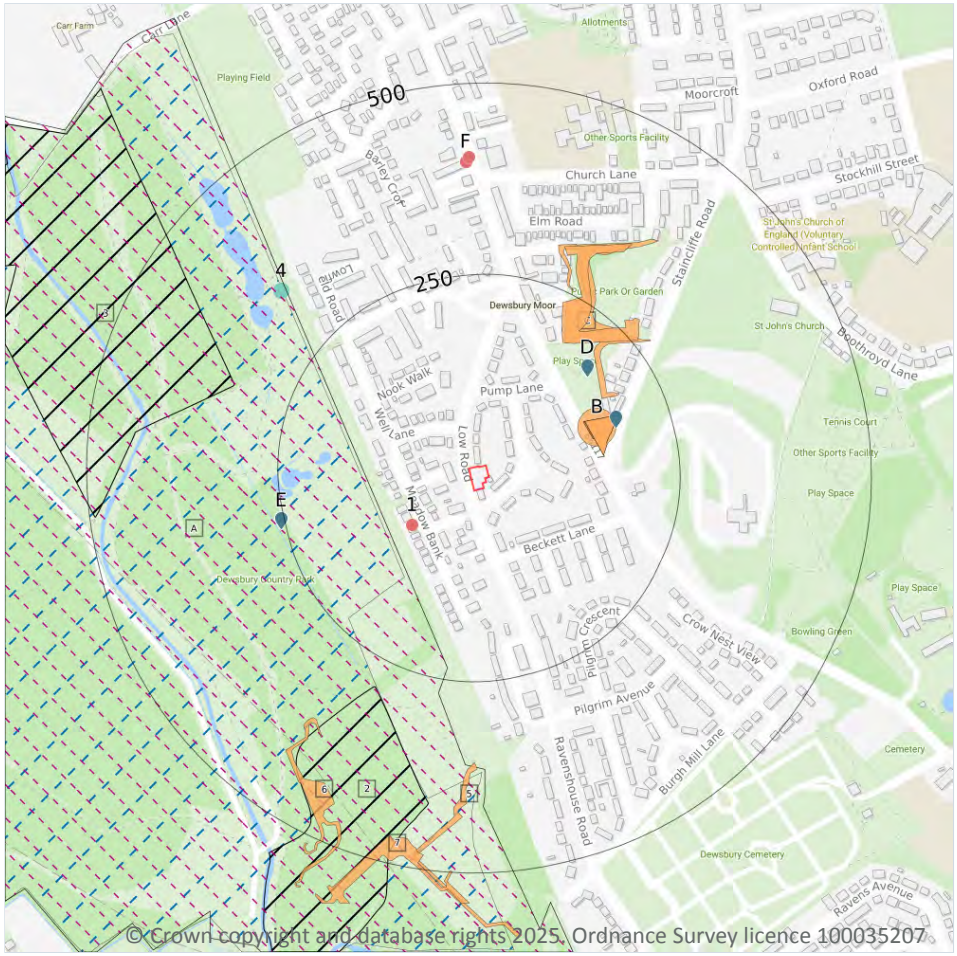
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 21 >**

ID	Location	Land Use	Date	Group ID
F	271m N	Garage	1972	52254
F	275m N	Garage	1982	50508
F	275m N	Garage	1992	50508
F	275m N	Garage	1982	51602
F	275m N	Garage	1997	51571
F	275m N	Garage	1993	51571

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

- Active or recent landfill
- Historical landfill (EA/NRW)
- Historical landfill (BGS)
- Historical landfill (LA/OS)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Details	
A	128m SW	Operator: Kirklees Council Site Address: Kirklees Council, Lower Spen Valley, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12 8BE	WML Number: 61058 EPR Reference: 655735 Landfill type: A04: Household, Commercial & Industrial Waste Landfill Status: Closure IPPC Reference: - EPR Number: EA/EPR/FP3295ZH

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

3.2 Historical landfill (BGS records)

Records within 500m	1

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.

Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Address	BGS Number	Risk	Waste Type
4	338m NW	Carrlanes, off Heckmand Rd, Dewsbury, Cleckheaton	1883	No risk to aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Site address	Source	Data type
A	123m SW	Lower Spen Valley	Kirklees Metropolitan Council	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	2

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

Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Details		
2	288m SW	Site Address: Pilgrim Tip, Off Ravenhouse Road, Dewsbury Moor, West Yorkshire Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Commercial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Dewsbury County Borough Council Licence Holder: - First Recorded 31/12/1934 Last Recorded: -
3	326m W	Site Address: Carr Lane, Off Heckmondwike Road, Dewsbury, Cleckheaton, West Yorkshire Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Spenborough Borough Council Licence Holder: - First Recorded 11/07/1972 Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	**11**

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

Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Address	Further Details	Date
B	128m E	Site Address: 14 Heckmondwike Road, DEWSBURY, West Yorkshire, WF13 3PH	Type of Site: Waste Transfer Station (c/u) Planning application reference: 94/62/90304/E0 Description: An application (ref: 94/62/90304/E0) for Detailed Planning permission was submitted to Kirklees B.C. on 31st January 1994. Data source: Historic Planning Application Data Type: Point	-
B	140m NE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1982
B	140m NE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1992

ID	Location	Address	Further Details	Date
B	141m NE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1982
B	142m NE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1997
B	142m NE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1993
C	175m NE	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1956
C	190m NE	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1933
5	356m S	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1933
6	364m SW	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1956
7	463m S	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1956

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

3.6 Licensed waste sites

Records within 500m	12

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

Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Details		
B	179m E	Site Name: Wilkinson Brothers Site Address: Wilkinson Brothers, Heckmondwike Road, Dewsbury Moor, Dewsbury, WF13 3PH Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: 662597 EPR reference: EA/EPR/HP3895ZP Operator: Dennis Wilkinson T/a Wilkinson Brothers Waste Management licence No: 61045 Annual Tonnage: 0	Issue Date: 12/02/2025 Effective Date: 10/02/2025 Modified: 10/02/2025 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	179m E	Site Name: Wilkinson Brothers Site Address: 14, Heckmondwike Road, Dewsbury, West Yorkshire, WF13 3PN Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 643674 EPR reference: EA/EPR/HP3895ZP Operator: J & D Wilkinson Waste Management licence No: 61045 Annual Tonnage: 12000	Issue Date: 16/08/1994 Effective Date: 16/08/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
D	184m NE	Site Name: Snee Site Address: Land Adjacent Jilllane Farm, Jill Lane, Mirfild, Dewsbury, West Yorkshire, WF14 0QN Correspondence Address: Jill Lane Farm, Jill Lane, Mirfield, Dewsbury, West Yorkshire, WF14 0QN	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SNE001 EPR reference: - Operator: Snee J Mr Waste Management licence No: 61033 Annual Tonnage: 0	Issue Date: 20/06/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
D	184m NE	Site Name: Snee Site Address: Land Adjacent Jilllane Farm, Jill Lane, Mirfild, Dewsbury, West Yorkshire, WF14 0QN Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 636013 EPR reference: EA/EPR/TP3895ZC Operator: J Mr Snee Waste Management licence No: 61033 Annual Tonnage: 24999	Issue Date: 20/06/1994 Effective Date: 20/06/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
D	184m NE	Site Name: Snee Site Address: Land Adjacent Jilllane Farm, Jill Lane, Mirfild, Dewsbury, West Yorkshire, WF14 0QN Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: 642314 EPR reference: EA/EPR/TP3895ZC Operator: J Mr Snee Waste Management licence No: 61033 Annual Tonnage: 0	Issue Date: 20/06/1994 Effective Date: 20/06/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
E	255m W	Site Name: Lower Spen Valley Site Address: Lower Spen Valley, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12 Correspondence Address: West Riding House, 9, Manchester Road, Huddersfield, West Yorkshire, HD1 3HH	Type of Site: Co-Disposal Landfill Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KIR008 EPR reference: - Operator: Kirklees Metropolitan Council Waste Management licence No: 61058 Annual Tonnage: 0	Issue Date: 01/04/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
E	255m W	Site Name: Lower Spen Valley Site Address: Lower Spen Valley, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12 Correspondence Address: Strategic Waste, Vine Street, Huddersfield, West Yorkshire, HD1 6NT	Type of Site: Household, Commercial & Industrial Waste Landfill Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KIR008 EPR reference: - Operator: Kirklees Metropolitan Council Waste Management licence No: 61058 Annual Tonnage: 0	Issue Date: 01/04/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
E	255m W	Site Name: Lower Spen Valley Site Address: Lower Spen Valley, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12 Correspondence Address: West Riding House, 9, Manchester Road, Huddersfield, West Yorkshire, HD1 3HH	Type of Site: Household, Commercial & Industrial Waste Landfill Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KIR008 EPR reference: - Operator: Kirklees Metropolitan Council Waste Management licence No: 61058 Annual Tonnage: 0	Issue Date: 01/04/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
E	255m W	Site Name: Lower Spen Valley Site Address: Lower Spen Valley, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12 Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste Landfill Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KIR008 EPR reference: EA/EPR/FP3295ZH/A001 Operator: Kirklees Council Waste Management licence No: 61058 Annual Tonnage: 250000	Issue Date: 01/04/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure
E	255m W	Site Name: Lower Spen Valley Site Address: Lower Spen Valley, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12 8BE Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste Landfill Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 655735 EPR reference: EA/EPR/FP3295ZH Operator: Kirklees Council Waste Management licence No: 61058 Annual Tonnage: 250000	Issue Date: 01/04/1996 Effective Date: 01/04/1996 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure

ID	Location	Details		
E	255m W	Site Name: Lower Spen Valley T L S Site Address: Lower Spen Valley T L S, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12 Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KIR011 EPR reference: EA/EPR/CP3095ZL/S002 Operator: Sita (kirklees) Limited Waste Management licence No: 61063 Annual Tonnage: 168241	Issue Date: 01/04/1996 Effective Date: - Modified: - Surrendered Date: 09/04/2003 Expiry Date: - Cancelled Date: - Status: Surrendered
E	255m W	Site Name: Lower Spen Valley T L S Site Address: Lower Spen Valley T L S, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12 Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 634738 EPR reference: EA/EPR/CP3095ZL Operator: Suez Recycling And Recovery Kirklees Ltd Waste Management licence No: 61063 Annual Tonnage: 168241	Issue Date: 01/04/1996 Effective Date: 01/04/1996 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered

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.

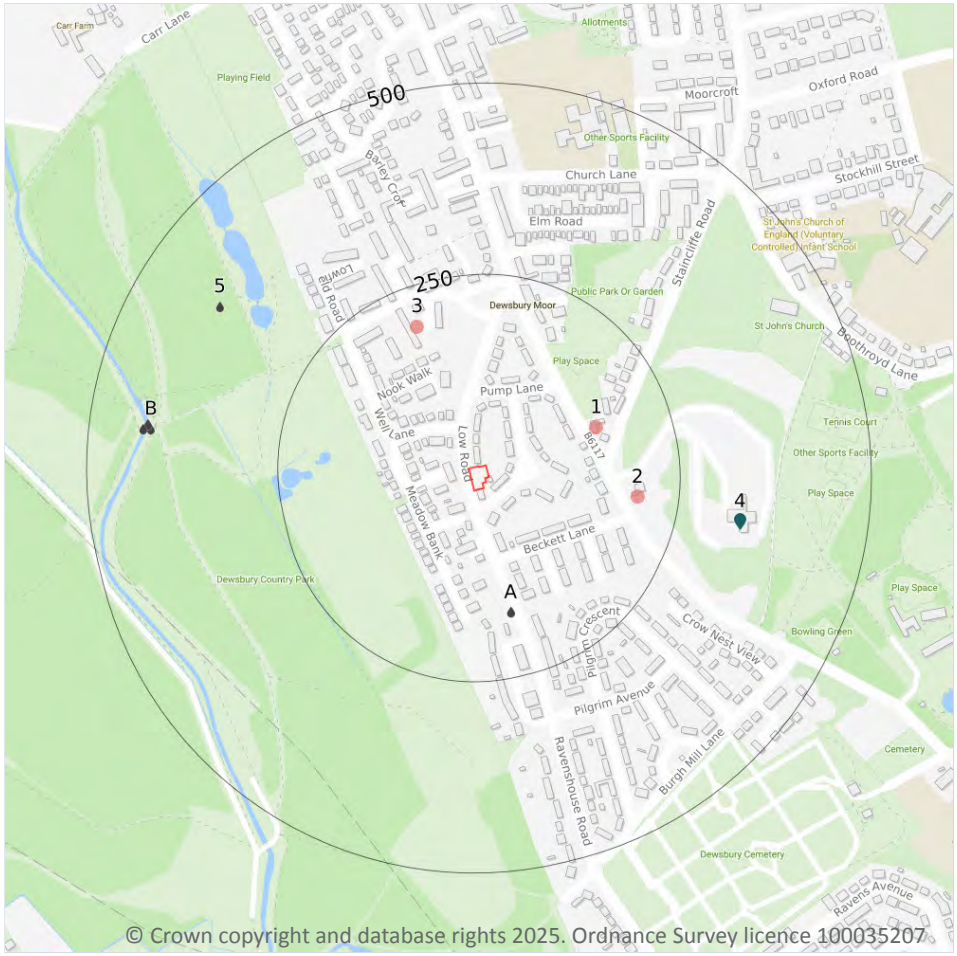
Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	93m SW	64-70, Meadow Bank, Dewsbury, Wf13 3sl	WEX036173	Using waste exemption	Not on a farm	Use of waste in construction
F	398m N	119, Heckmondwike Road, Dewsbury, Wf13 3nt	WEX243865	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
F	398m N	119, Heckmondwike Road, Dewsbury, Wf13 3nt	WEX376473	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal

ID	Location	Site	Reference	Category	Sub-Category	Description
F	404m N	-	WEX376474	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



Site Outline

Search buffers in metres (m)

Recent industrial land uses

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

Licensed Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m	3

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 38 >**

ID	Location	Company	Address	Activity	Category
1	153m E	D Wilkinson Bros	14, Heckmondwike Road, Dewsbury Moor, Dewsbury, West Yorkshire, WF13 3PH	Scrap Metal Merchants	Recycling Services
2	196m E	Electricity Sub Station	West Yorkshire, WF13	Electrical Features	Infrastructure and Facilities
3	198m N	Electricity Sub Station	West Yorkshire, WF13	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

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

Records within 250m	0

Current or recent tanks identified from the Ordnance Survey NGD.

This data is sourced from Ordnance Survey.

4.3 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.7 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.9 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.10 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.11 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 38 >**

ID	Location	Address	Details	
4	333m E	Dewsbury Moor Crematorium, Heckmondwike Road, Dewsbury, WF13 3PL	Process: Crematoria Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.13 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.14 Licensed Discharges to controlled waters

Records within 500m	7

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

Features are displayed on the Current industrial land use map on **page 38 >**

ID	Location	Address	Details	
A	166m S	CALDER BANK ROAD, DEWSBURY, WEST YORKSHIRE, WF12 9QB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/48 Permit Version: 1 Receiving Water: VARIES WITH OUTLET	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 10/05/1963 Effective Date: 10/05/1963 Revocation Date: 10/06/1993

ID	Location	Address	Details	
A	166m S	CALDER BANK ROAD, DEWSBURY, WEST YORKSHIRE, WF12 9QB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/48 Permit Version: 2 Receiving Water: VARIES WITH OUTLET	Status: REVISED CONSENT, BY NOTICE (SECTION 37(1)) Issue date: 11/06/1993 Effective Date: 11/06/1993 Revocation Date: 24/01/1995
A	166m S	CALDER BANK ROAD, DEWSBURY, WEST YORKSHIRE, WF12 9QB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/48 Permit Version: 3 Receiving Water: VARIES WITH OUTLET	Status: REVISED CONSENT, BY NOTICE (SECTION 37(1)) Issue date: 11/06/1993 Effective Date: 25/01/1995 Revocation Date: -
5	389m NW	CALDER BANK ROAD, DEWSBURY, WEST YORKSHIRE, WF12 9QB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/CB/48 Permit Version: 1 Receiving Water: VARIES WITH OUTLET	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 10/05/1963 Effective Date: 10/05/1963 Revocation Date: 10/06/1993
B	419m W	DEWSBURY MOOR CSO, LOWFIELD ROAD, DEWSBURY MOOR, DEWSBURY, WEST YORKSHIRE, WF13 3SR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 3342 Permit Version: 1 Receiving Water: SPEN RIVER	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 13/02/1979 Effective Date: 13/02/1979 Revocation Date: 30/03/2004
B	424m W	DEWSBURY MOOR CSO, LOWFIELD ROAD, DEWSBURY MOOR, DEWSBURY, WEST YORKSHIRE, WF13 3SR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 3342 Permit Version: 3 Receiving Water: RIVER SPEN (VIA PUBLIC SEWER)	Status: VARIED UNDER EPR 2010 Issue date: 30/10/2017 Effective Date: 30/10/2017 Revocation Date: -
B	429m W	DEWSBURY MOOR CSO, LOWFIELD ROAD, DEWSBURY MOOR, DEWSBURY, WEST YORKSHIRE, WF13 3SR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 3342 Permit Version: 2 Receiving Water: RIVER SPEN (VIA PUBLIC SEWER)	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 01/03/2004 Effective Date: 31/03/2004 Revocation Date: 29/10/2017

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

4.15 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.16 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.17 List 1 Dangerous Substances

Records within 500m	0

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

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

4.18 List 2 Dangerous Substances

Records within 500m	0

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

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

4.19 Pollution Incidents (EA/NRW)

Records within 500m	0

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

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

4.20 Pollution inventory substances

Records within 500m	0

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

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

4.21 Pollution inventory waste transfers

Records within 500m	0

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

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

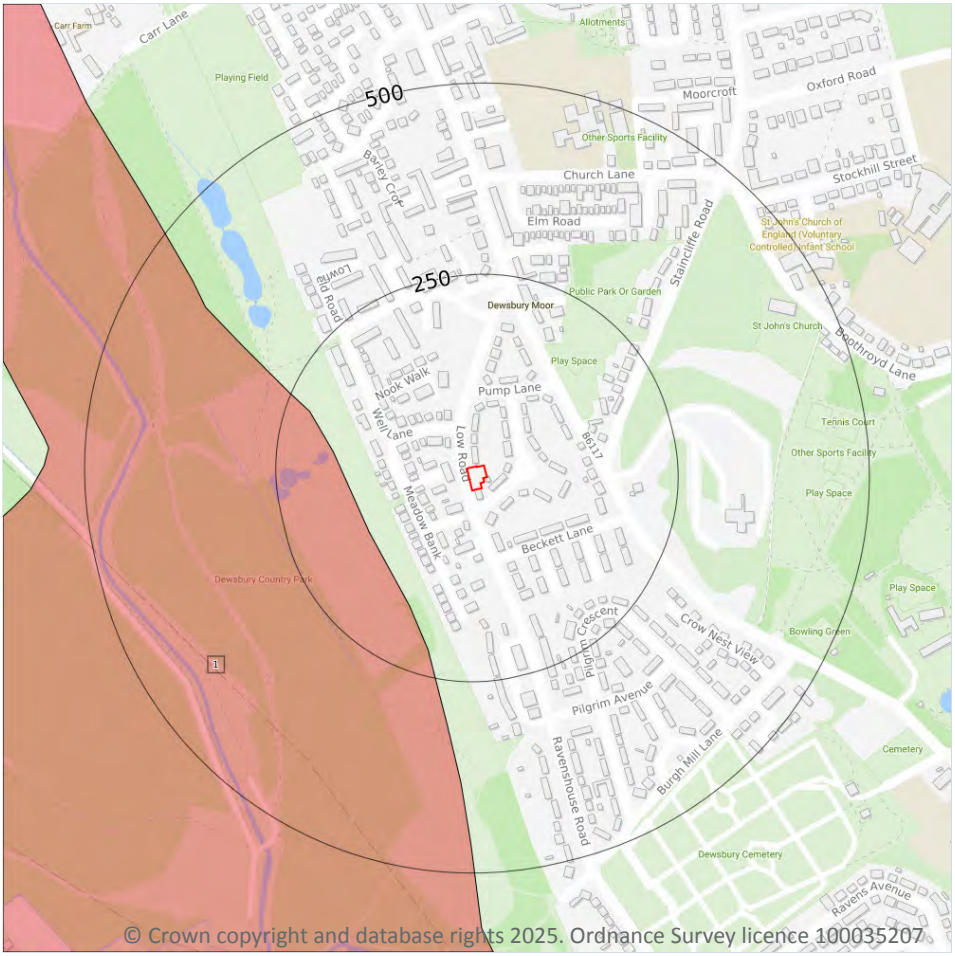
4.22 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	1

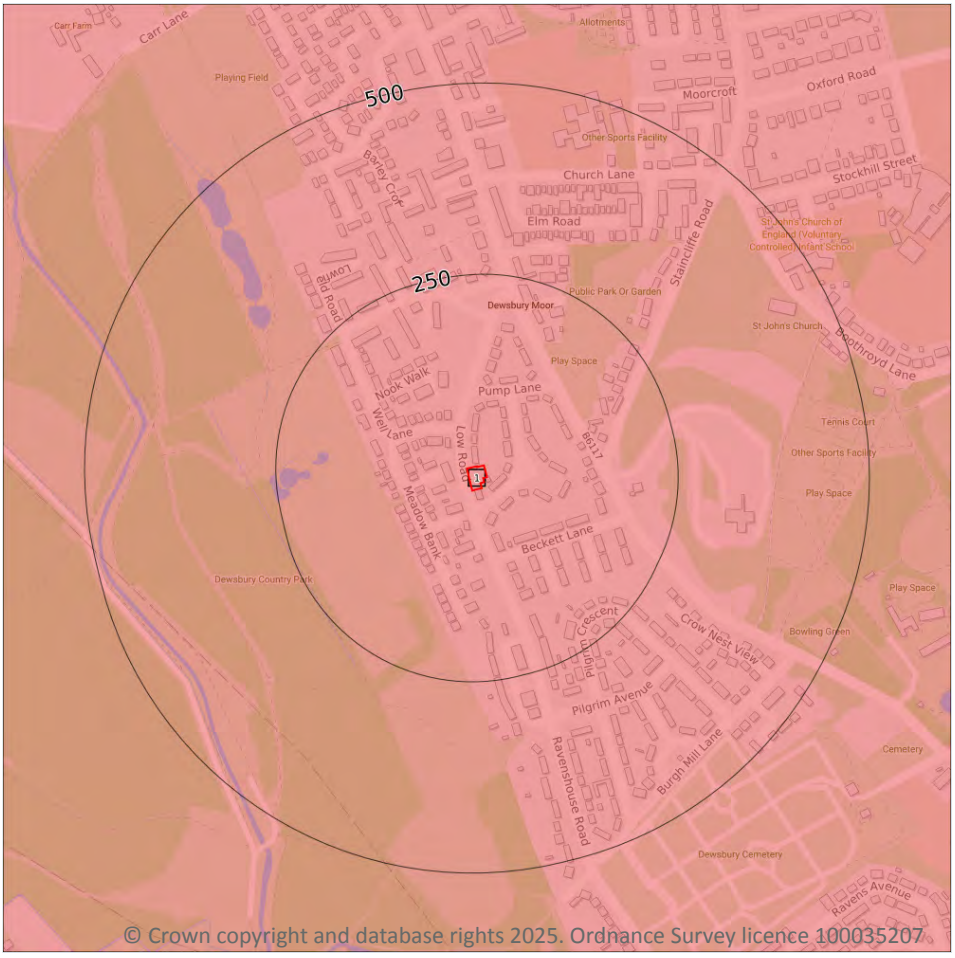
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 45 >**

ID	Location	Designation	Description
1	144m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	1

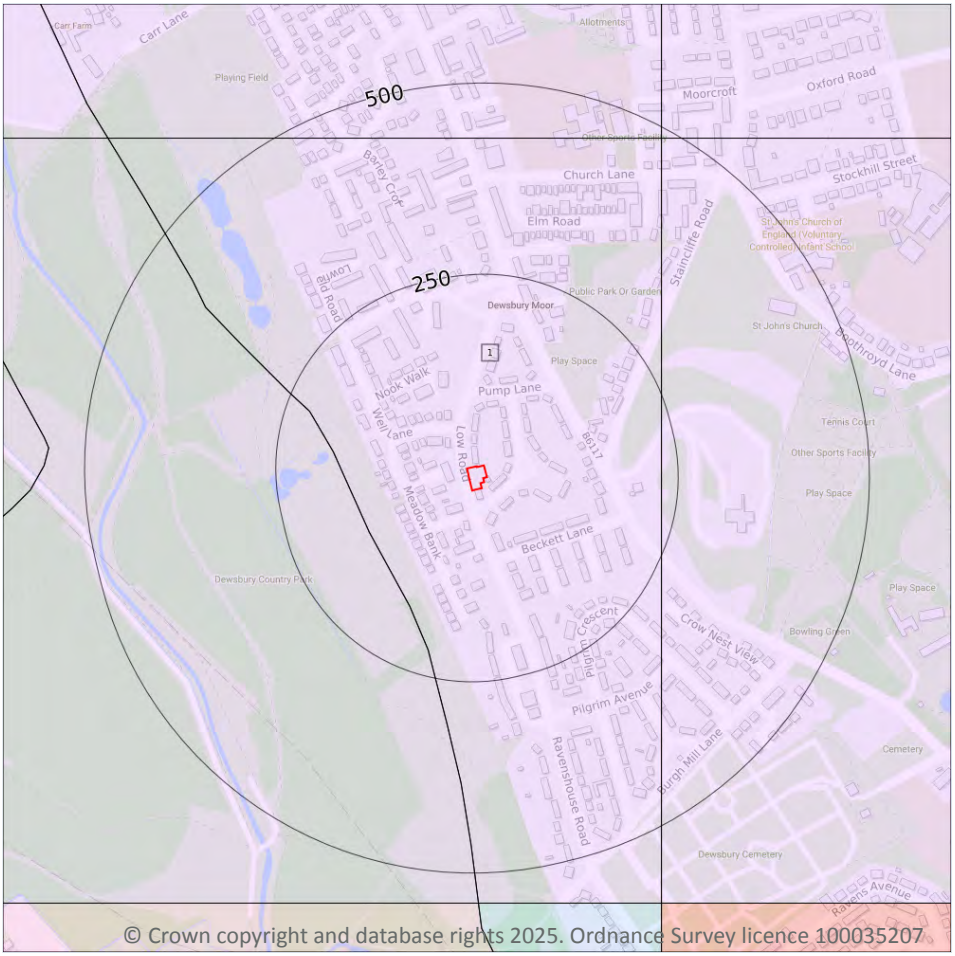
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 46 >**

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	1

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

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

Features are displayed on the Groundwater vulnerability map on **page 47 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year**	**Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: High**	**Vulnerability: Medium 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.

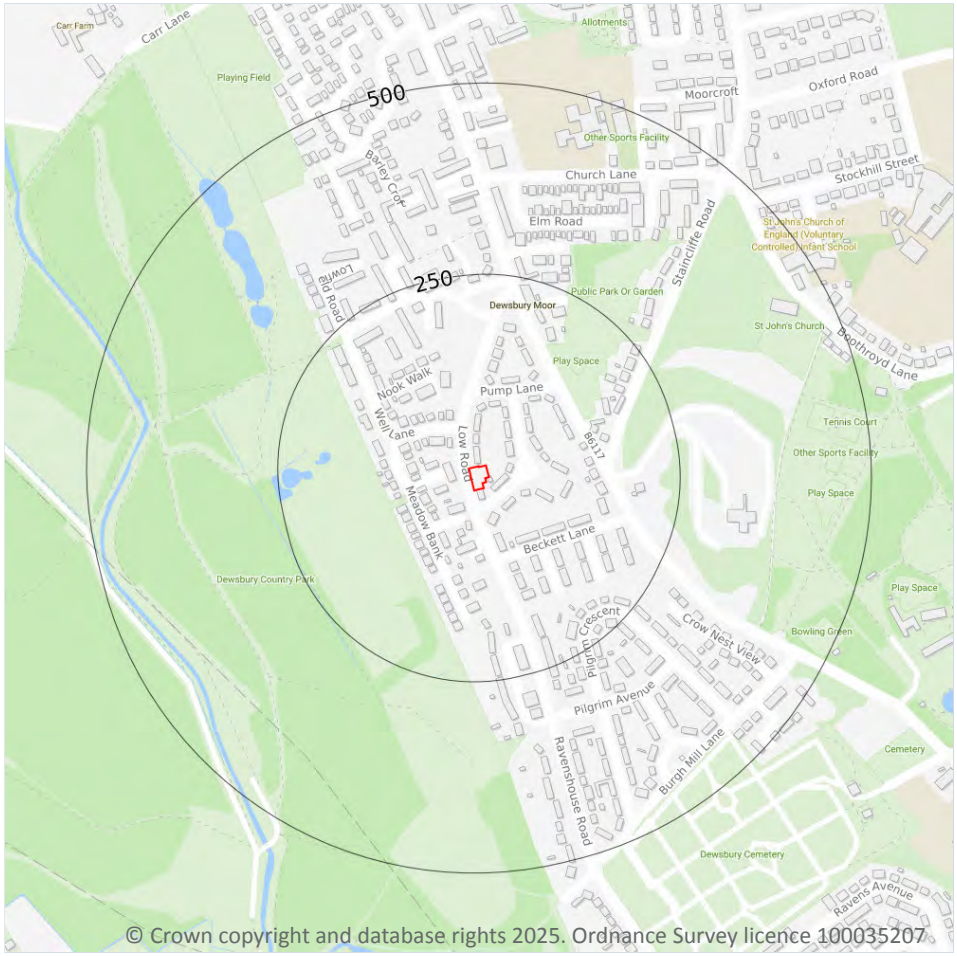
5.5 Groundwater vulnerability- local information

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	26

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 49 >**

ID	Location	Details	
-	1118m S	Status: Active Licence No: 2/27/13/200 Details: General Washing/Process Washing Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - RAVENSTHORPE - DEWSBURY Data Type: Point Name: Ly Manufacturing Ltd Easting: 423080 Northing: 420470	Annual Volume (m^3): 28800 Max Daily Volume (m^3): 960 Original Application No: NPS/WR/043879 Original Start Date: 23/06/1999 Expiry Date: - Issue No: 104 Version Start Date: 20/02/2025 Version End Date: -
-	1118m S	Status: Historical Licence No: 2/27/13/200 Details: General Washing/Process Washing Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: WILLIAM S GRAHAM LIMITED Easting: 423080 Northing: 420470	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/06/1999 Expiry Date: - Issue No: 100 Version Start Date: 23/06/1999 Version End Date: -
-	1175m N	Status: Historical Licence No: 2/27/13/189 Details: Evaporative Cooling Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: MORTON INTERNATIONAL Easting: 422430 Northing: 422700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 30/04/1997 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 30/04/1997 Version End Date: -
-	1175m N	Status: Historical Licence No: 2/27/13/189 Details: Evaporative Cooling Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-DEWSBURY Data Type: Point Name: RHOM & HAAS (UK) LTD Easting: 422430 Northing: 422700	Annual Volume (m^3): 270000 Max Daily Volume (m^3): 725 Original Application No: - Original Start Date: 30/04/1997 Expiry Date: 31/12/2006 Issue No: 101 Version Start Date: 02/05/2000 Version End Date: -
-	1406m S	Status: Historical Licence No: 2/27/13/202 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - DEWSBURY - COAL MEASURES Data Type: Point Name: RIVERSTONE SPINNING LTD Easting: 422620 Northing: 420140	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 24/04/2000 Expiry Date: 31/12/2005 Issue No: 2 Version Start Date: 23/04/2002 Version End Date: -

ID	Location	Details	
-	1406m S	Status: Historical Licence No: 2/27/13/218 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - DEWSBURY - COAL MEASURES Data Type: Point Name: ULSTER YARNS LTD Easting: 422620 Northing: 420140	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 500 Original Application No: - Original Start Date: 01/01/2006 Expiry Date: 31/12/2010 Issue No: 2 Version Start Date: 23/03/2007 Version End Date: -
-	1406m S	Status: Historical Licence No: NE/027/0013/005 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE AT RAVENSTHORPE MILLS, DEWSBURY Data Type: Point Name: ULSTER YARNS LTD Easting: 422620 Northing: 420140	Annual Volume (m^3): 50000 Max Daily Volume (m^3): 250 Original Application No: - Original Start Date: 01/01/2011 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/01/2011 Version End Date: -
-	1406m S	Status: Historical Licence No: NE/027/0013/005 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - RAVENSTHORPE MILLS, DEWSBURY Data Type: Point Name: ULSTER YARNS LTD Easting: 422620 Northing: 420140	Annual Volume (m^3): 50000 Max Daily Volume (m^3): 250 Original Application No: - Original Start Date: 01/01/2011 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/01/2011 Version End Date: -
-	1436m S	Status: Historical Licence No: 2/27/13/215 Details: Process water Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-RAVENSTHORPE,DEWSBURY Data Type: Point Name: DEWSBURY DYEING CO LTD Easting: 422390 Northing: 420150	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 24/12/2003 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 24/12/2003 Version End Date: -

ID	Location	Details	
-	1436m S	Status: Historical Licence No: 2/27/13/215 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - RAVENSTHORPE - DEWSBURY Data Type: Point Name: DEWSBURY DYEING CO LTD Easting: 422390 Northing: 420150	Annual Volume (m^3): 65000 Max Daily Volume (m^3): 270 Original Application No: - Original Start Date: 24/12/2003 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 24/12/2003 Version End Date: -
-	1688m N	Status: Historical Licence No: 2/27/13/193 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: THOMAS CARR LIMITED C/O BERNARD KAYE Easting: 422750 Northing: 423260	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 04/03/1998 Expiry Date: 31/12/2008 Issue No: 100 Version Start Date: 04/03/1998 Version End Date: -
-	1688m N	Status: Historical Licence No: 2/27/13/193 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - STAINCLIFFE DEWSBURY Data Type: Point Name: THOMAS CARR LTD Easting: 422750 Northing: 423260	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 04/03/1998 Expiry Date: 31/12/2008 Issue No: 100 Version Start Date: 04/03/1998 Version End Date: -
-	1711m SE	Status: Historical Licence No: 2/27/13/226 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - DEWSBURY Data Type: Point Name: CALDER DYEING LTD Easting: 424090 Northing: 420460	Annual Volume (m^3): 75000 Max Daily Volume (m^3): 330 Original Application No: - Original Start Date: 19/10/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 19/10/2007 Version End Date: -

ID	Location	Details	
-	1711m SE	Status: Historical Licence No: 2/27/13/226/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - DEWSBURY Data Type: Point Name: CALDER DYEING LTD Easting: 424090 Northing: 420460	Annual Volume (m^3): 75000 Max Daily Volume (m^3): 330 Original Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1719m SE	Status: Active Licence No: 2/27/13/226/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - DEWSBURY Data Type: Point Name: CALDER DYEING LTD Easting: 424093 Northing: 420451	Annual Volume (m^3): 115000 Max Daily Volume (m^3): 500 Original Application No: NPS/WR/033441 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 15/05/2020 Version End Date: -
-	1826m W	Status: Historical Licence No: 2/27/13/231 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - MIRFIELD Data Type: Point Name: JOHN L BARBER & SON Easting: 420920 Northing: 421600	Annual Volume (m^3): 25000 Max Daily Volume (m^3): 103 Original Application No: - Original Start Date: 08/09/2008 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 08/09/2008 Version End Date: -
-	1832m N	Status: Historical Licence No: 2/27/13/193 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: THOMAS CARR LIMITED C/O BERNARD KAYE Easting: 422650 Northing: 423400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 04/03/1998 Expiry Date: 31/12/2008 Issue No: 100 Version Start Date: 04/03/1998 Version End Date: -

ID	Location	Details	
-	1832m N	Status: Historical Licence No: 2/27/13/193 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - STAINCLIFFE DEWSBURY Data Type: Point Name: THOMAS CARR LTD Easting: 422650 Northing: 423400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 04/03/1998 Expiry Date: 31/12/2008 Issue No: 100 Version Start Date: 04/03/1998 Version End Date: -
-	1845m NE	Status: Historical Licence No: 2/27/13/046 Details: General use relating to Secondary Category (High Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: JOSHUA ELLIS & COMPANY LIMITED Easting: 424300 Northing: 422600	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: 22/10/1997 Version End Date: -
-	1845m NE	Status: Historical Licence No: 2/27/13/046 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: JOSHUA ELLIS & COMPANY LIMITED Easting: 424300 Northing: 422600	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: 22/10/1997 Version End Date: -
-	1845m NE	Status: Historical Licence No: 2/27/13/046 Details: Process water Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: JOSHUA ELLIS & COMPANY LIMITED Easting: 424300 Northing: 422600	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: 22/10/1997 Version End Date: -

ID	Location	Details	
-	1845m NE	Status: Historical Licence No: 2/27/13/046 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - DEWSBURY Data Type: Point Name: JOSHUA ELLIS & COMPANY LIMITED Easting: 424300 Northing: 422600	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: 22/10/1997 Version End Date: -
-	1845m NE	Status: Historical Licence No: 2/27/13/046 Details: General use relating to Secondary Category (High Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - DEWSBURY Data Type: Point Name: JOSHUA ELLIS & COMPANY LIMITED Easting: 424300 Northing: 422600	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: 22/10/1997 Version End Date: -
-	1845m NE	Status: Historical Licence No: 2/27/13/046 Details: Process water Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - DEWSBURY Data Type: Point Name: JOSHUA ELLIS & COMPANY LIMITED Easting: 424300 Northing: 422600	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: 22/10/1997 Version End Date: -
-	1923m SW	Status: Historical Licence No: 2/27/13/063 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: WELL Data Type: Point Name: BROOK Easting: 421600 Northing: 420000	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: 12/01/1972 Version End Date: -
-	1923m SW	Status: Historical Licence No: 2/27/13/063 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: WELL - COAL MEASURES - MIRFIELD Data Type: Point Name: BROOK Easting: 421600 Northing: 420000	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: 12/01/1972 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 49 >**

ID	Location	Details	
-	1114m S	Status: Active Licence No: 2/27/13/211/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER CALDER-RAVENSING MILLS-RAVENSTHORPE Data Type: Point Name: Ly Manufacturing Ltd Easting: 423140 Northing: 420493	Annual Volume (m^3): 350000 Max Daily Volume (m^3): 960 Original Application No: NPS/WR/043877 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 3 Version Start Date: 20/02/2025 Version End Date: -
-	1117m S	Status: Historical Licence No: 2/27/13/211 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER CALDER-RAVENSING MILLS-RAVENSTHORPE Data Type: Point Name: Lawton Yarns Ltd Easting: 423140 Northing: 420490	Annual Volume (m^3): 350000 Max Daily Volume (m^3): 960 Original Application No: - Original Start Date: 21/11/2002 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 06/08/2014 Version End Date: -
-	1401m S	Status: Historical Licence No: 2/27/13/179 Details: Non-Evaporative Cooling Direct Source: SURFACE WATER Point: RIVER CALDER - THORNHILL POWER STATION - DEWSBURY Data Type: Point Name: Canal and River Trust Easting: 422830 Northing: 420140	Annual Volume (m^3): 25842000 Max Daily Volume (m^3): 70800 Original Application No: 6708 Original Start Date: 22/04/1996 Expiry Date: - Issue No: 101 Version Start Date: 21/01/2008 Version End Date: -

ID	Location	Details	
-	1401m S	Status: Historical Licence No: 2/27/13/179 Details: Non-Evaporative Cooling Direct Source: SURFACE WATER Point: RIVER CALDER Data Type: Point Name: BRITISH WATERWAYS Easting: 422830 Northing: 420140	Annual Volume (m^3): 25842000 Max Daily Volume (m^3): 70800 Original Application No: - Original Start Date: 22/04/1996 Expiry Date: - Issue No: 100 Version Start Date: 28/08/1996 Version End Date: -
-	1515m S	Status: Historical Licence No: 2/27/13/229 Details: Dust Suppression Direct Source: SURFACE WATER Point: RIVER CALDER - RAVENSTHORPE Data Type: Line Name: FORTICRETE LTD Easting: 422400 Northing: 419870	Annual Volume (m^3): 22000 Max Daily Volume (m^3): 80 Original Application No: - Original Start Date: 08/01/2008 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1515m S	Status: Historical Licence No: 2/27/13/229 Details: General Use Relating To Secondary Category (High Loss) Direct Source: SURFACE WATER Point: RIVER CALDER - RAVENSTHORPE Data Type: Line Name: FORTICRETE LTD Easting: 422400 Northing: 419870	Annual Volume (m^3): 22000 Max Daily Volume (m^3): 80 Original Application No: - Original Start Date: 08/01/2008 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1721m SE	Status: Historical Licence No: 2/27/13/230 Details: Mineral Washing Direct Source: SURFACE WATER Point: RIVER CALDER - DEWSBURY Data Type: Point Name: LAFARGE AGGREGATES LTD Easting: 423890 Northing: 420240	Annual Volume (m^3): 680000 Max Daily Volume (m^3): 2520 Original Application No: - Original Start Date: 07/07/2008 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 26/09/2013 Version End Date: -
-	1721m SE	Status: Historical Licence No: 2/27/13/230 Details: Dust Suppression Direct Source: SURFACE WATER Point: RIVER CALDER - DEWSBURY Data Type: Point Name: LAFARGE AGGREGATES LTD Easting: 423890 Northing: 420240	Annual Volume (m^3): 680000 Max Daily Volume (m^3): 2520 Original Application No: - Original Start Date: 07/07/2008 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 26/09/2013 Version End Date: -

ID	Location	Details	
-	1749m E	Status: Historical Licence No: 2/27/13/129 Details: Boiler Feed Direct Source: SURFACE WATER Point: RIVER CALDER Data Type: Point Name: ARONSTEAD LIMITED Easting: 424510 Northing: 421360	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 24/02/1971 Expiry Date: - Issue No: 100 Version Start Date: 16/03/1978 Version End Date: -
-	1808m E	Status: Active Licence No: 2/27/13/163 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER CALDER - DEWSBURY Data Type: Point Name: Henry Day and Sons Ltd Easting: 424560 Northing: 421290	Annual Volume (m^3): 15000 Max Daily Volume (m^3): 90.92 Original Application No: 6210 Original Start Date: 01/06/1989 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2024 Version End Date: -
-	1808m E	Status: Historical Licence No: 2/27/13/163 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER CALDER Data Type: Point Name: HENRY DAY & SONS LTD Easting: 424560 Northing: 421290	Annual Volume (m^3): 15000 Max Daily Volume (m^3): 90.92 Original Application No: - Original Start Date: 01/06/1989 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1989 Version End Date: -
-	1961m E	Status: Historical Licence No: 2/27/13/191 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER CALDER - DEWSBURY X 2 ABSTRACTION POINTS Data Type: Point Name: CALDER MASONARY Easting: 424700 Northing: 421200	Annual Volume (m^3): 9720 Max Daily Volume (m^3): 36 Original Application No: 6812 Original Start Date: 23/05/1997 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
-	1961m E	Status: Historical Licence No: 2/27/13/191 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER CALDER Data Type: Point Name: CALDER MASONARY Easting: 424700 Northing: 421200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/05/1997 Expiry Date: - Issue No: 100 Version Start Date: 23/05/1997 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	**0**

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

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

5.9 Source Protection Zones

Records within 500m	**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.

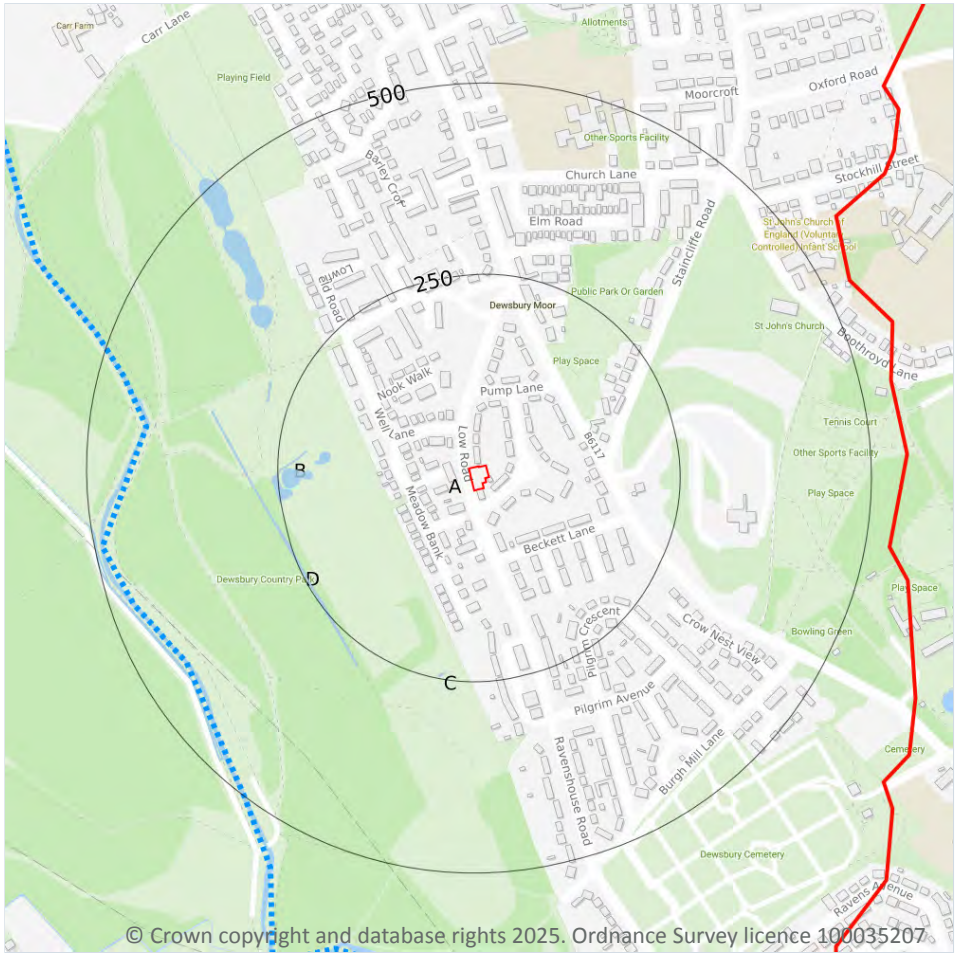
5.10 Source Protection Zones (confined aquifer)

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	**4**

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

Features are displayed on the Hydrology map on **page 60 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	214m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
C	241m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	246m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	248m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**5**

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

Features are displayed on the Hydrology map on **page 60 >**

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 60 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**River**	**Spen Beck from Source to River Calder**	**GB104027062710**	**Calder Lower**	**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 60 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	425m W	River	Spen Beck from Source to River Calder	GB104027062710 ↗	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 60 >**

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

8.1 Surface water flooding

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

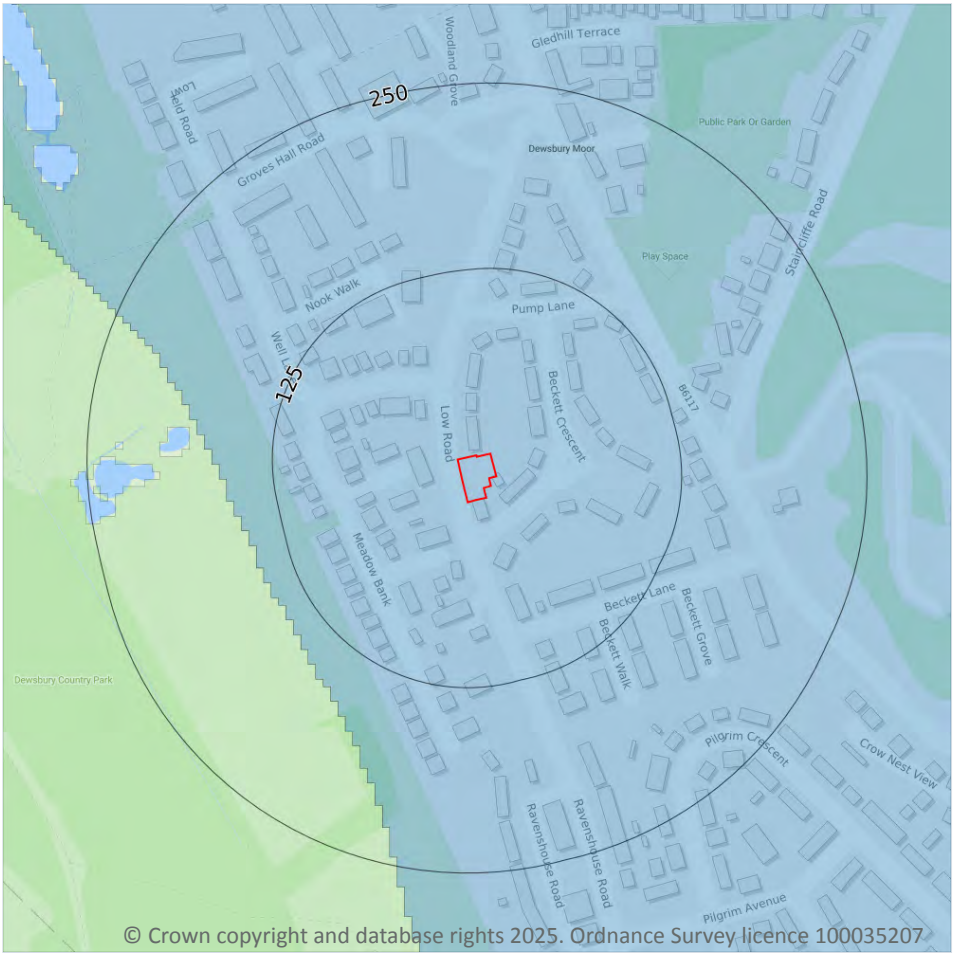
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year 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.

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

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

9.1 Groundwater flooding

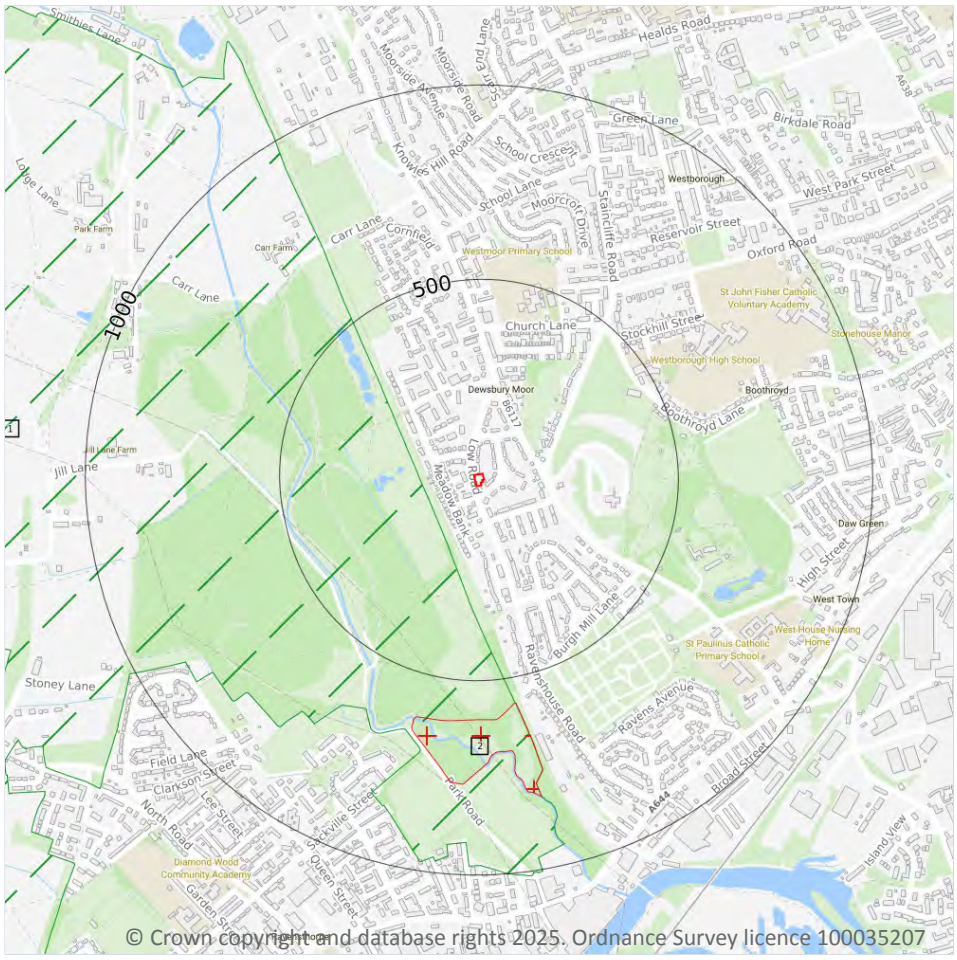
Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

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 67 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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Site Outline

Search buffers in metres (m)

Local Nature Reserves (LNR)

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	2

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

Features are displayed on the Environmental designations map on **page 68 >**

ID	Location	Name	Data source
2	566m S	Lower Spen Wildlife Area	Natural England
-	1967m SE	Sparrow Wood	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	0

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

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	2

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

Features are displayed on the Environmental designations map on **page 68 >**

ID	Location	Name	Local Authority name
1	126m SW	South and West Yorkshire Green Belt	Kirklees
-	1890m S	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

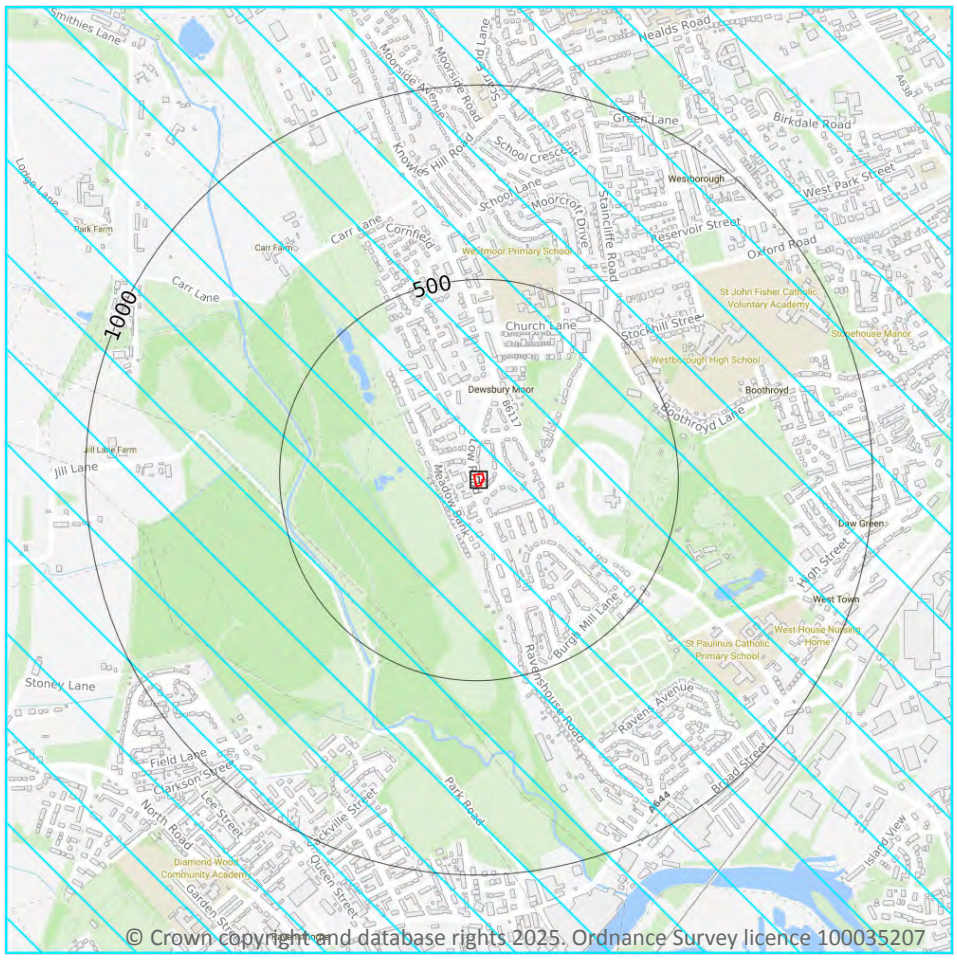
Records within 2000m	1

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

Location	Name	Type	NVZ ID	Status
On site	**Spen Beck from Source to River Calder NVZ**	**Surface Water**	**271**	**Existing**

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 73 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0000000630000&notes=&location=424739,422878%20(IRZ%20polygon%20centre)**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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

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

11 Visual and cultural designations

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.

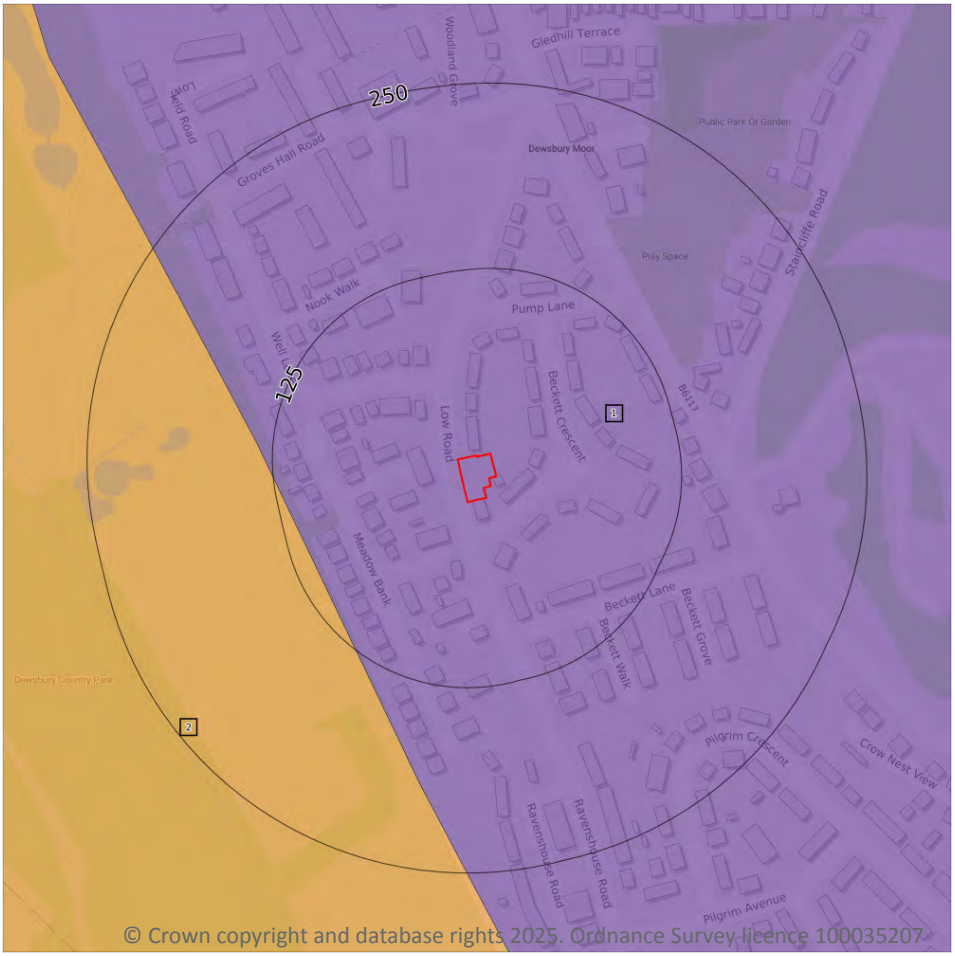
11.7 Registered Parks and Gardens

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



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	2

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

Features are displayed on the Agricultural designations map on **page 77 >**

ID	Location	Classification	Description
1	**On site**	**Urban**	**Non-agricultural/no quality assigned**
2	111m SW	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

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

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

12.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

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

13.1 Priority Habitat Inventory

Records within 250m	4

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 79 >**

ID	Location	Main Habitat	Other habitats
1	176m E	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
2	197m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	225m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	246m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

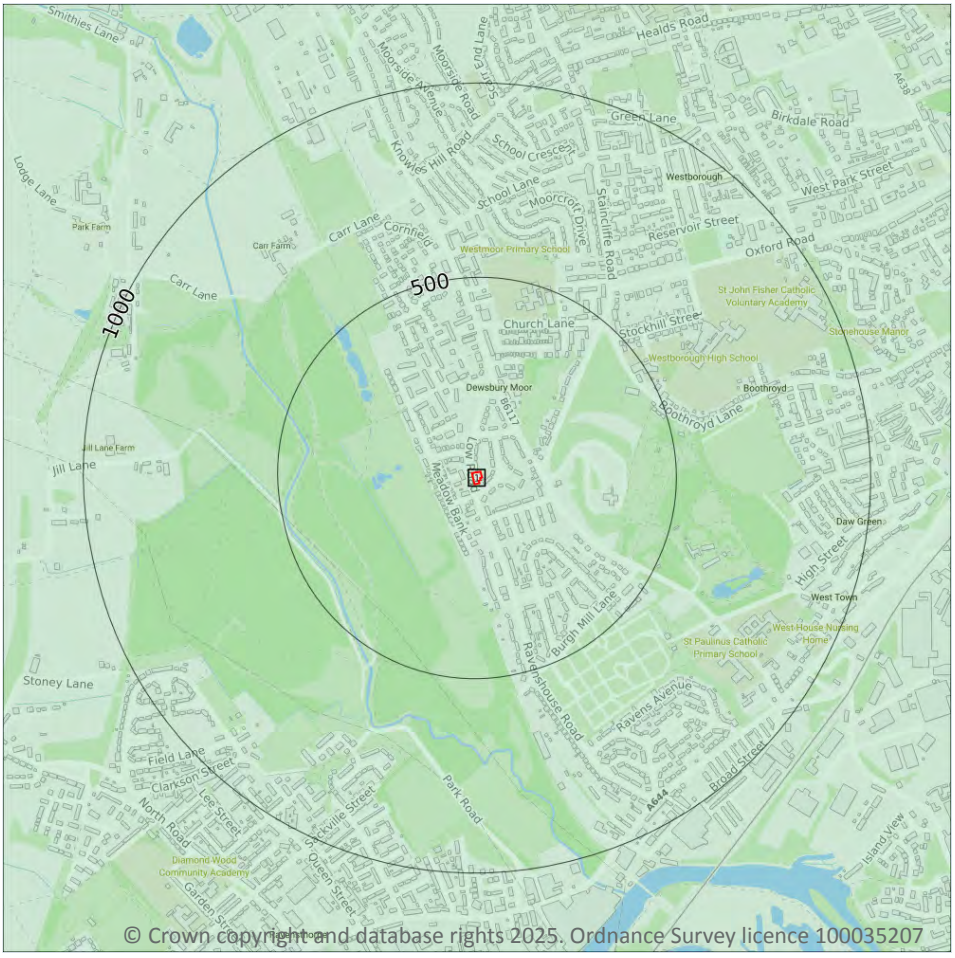
13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



14.1 10k Availability

Records within 500m	1

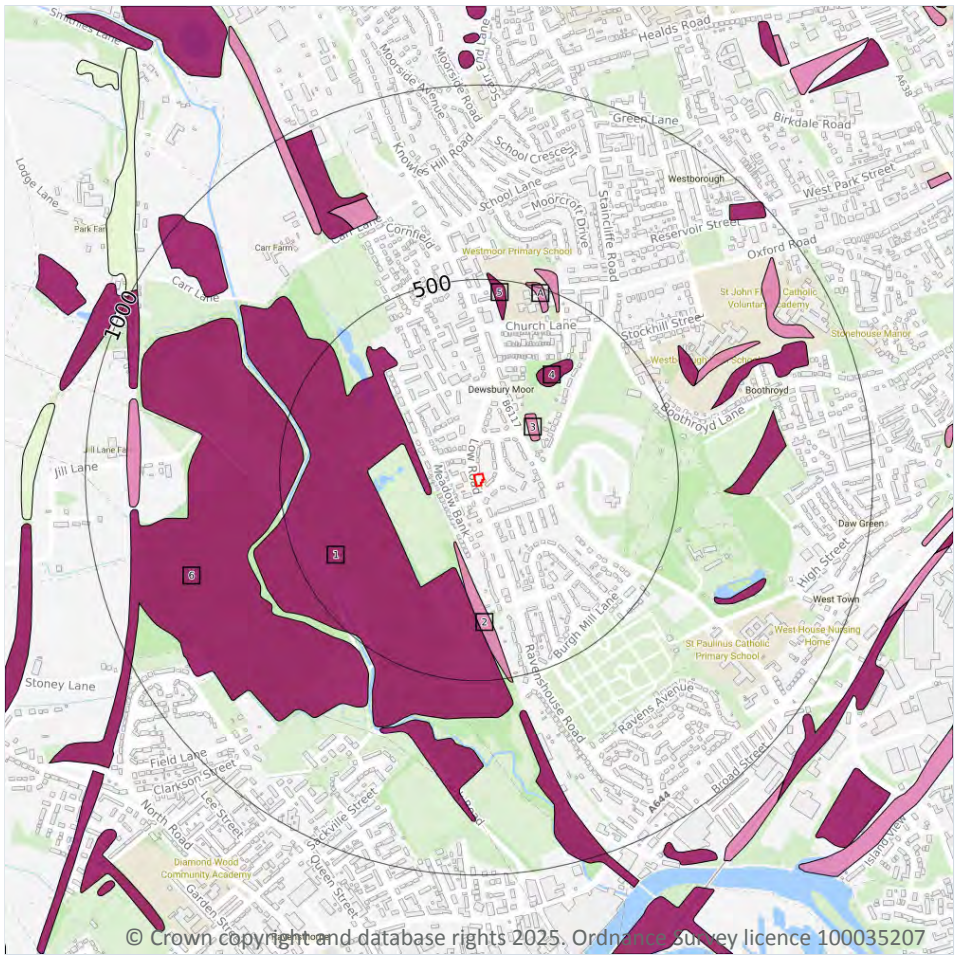
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 81 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE22SW**

This data is sourced from the British Geological Survey.

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



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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	8

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.

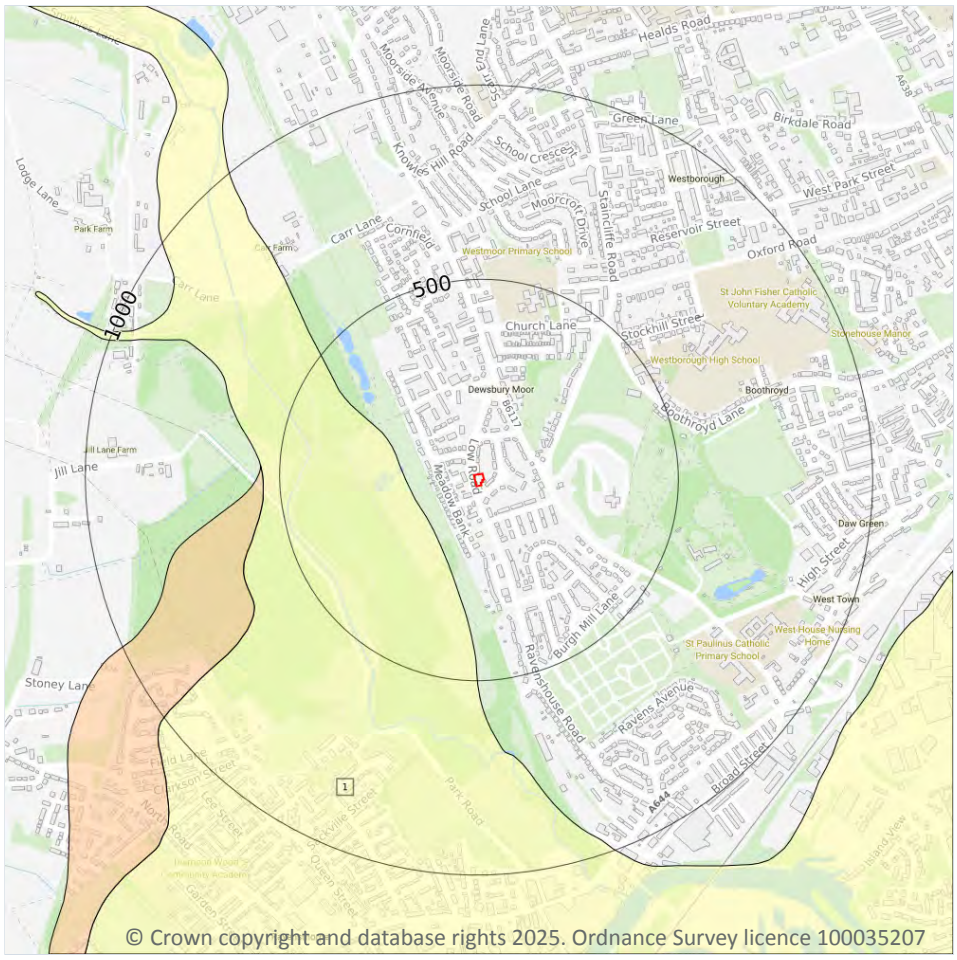
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 82 >**

ID	Location	LEX Code	Description	Rock description
1	116m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	152m S	WGR-VOID	Worked Ground (Undivided)	Void
3	153m NE	WGR-VOID	Worked Ground (Undivided)	Void
4	276m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	399m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	440m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	443m N	WGR-VOID	Worked Ground (Undivided)	Void
A	458m NE	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m	1

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 84 >**

ID	Location	LEX Code	Description	Rock description
1	151m SW	ALV-XCSV	Alluvium - Clay, Sand And Gravel	Clay, Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m **22**

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 86 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**BRSR-SDST**	**Birstall Rock - Sandstone**	**Langsettian Sub-age**
2	9m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
3	41m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
8	155m E	ER-SDST	Emley Rock - Sandstone	Langsettian Sub-age
9	165m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
12	167m SW	LPE-SDST	Lepton Edge Rock - Sandstone	Langsettian Sub-age
13	184m N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
14	196m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
15	199m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
16	214m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
19	225m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
22	246m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
24	272m E	BRSR-SDST	Birstall Rock - Sandstone	Langsettian Sub-age
25	277m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
27	321m W	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
28	357m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
29	365m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
32	380m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
38	447m SE	ER-SDST	Emley Rock - Sandstone	Langsettian Sub-age
40	454m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
43	492m W	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
44	492m SE	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	22

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 86 >**

ID	Location	Category	Description
4	58m E	ROCK	Coal seam, inferred
5	62m W	ROCK	Coal seam, inferred
6	121m E	ROCK	Coal seam, inferred
7	141m SW	ROCK	Coal seam, inferred
10	165m N	FAULT	Normal fault, inferred; downthrow not specified
11	167m N	ROCK	Coal seam, inferred
17	217m E	ROCK	Coal seam, inferred
18	221m SW	ROCK	Coal seam, inferred
20	225m NE	FAULT	Normal fault, inferred; downthrow not specified
21	225m NE	ROCK	Coal seam, inferred
23	264m E	ROCK	Coal seam, inferred
26	277m NE	FAULT	Normal fault, inferred; downthrow not specified
30	365m W	ROCK	Coal seam, inferred
31	373m E	ROCK	Coal seam, inferred
33	380m NE	FAULT	Normal fault, inferred; downthrow not specified
34	411m NE	ROCK	Coal seam, inferred
35	416m N	ROCK	Coal seam, inferred
36	429m W	ROCK	Coal seam, inferred
37	433m NE	ROCK	Coal seam, inferred
39	447m SE	FAULT	Normal fault, inferred; downthrow not specified
41	459m E	ROCK	Coal seam, inferred
42	467m SE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



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Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

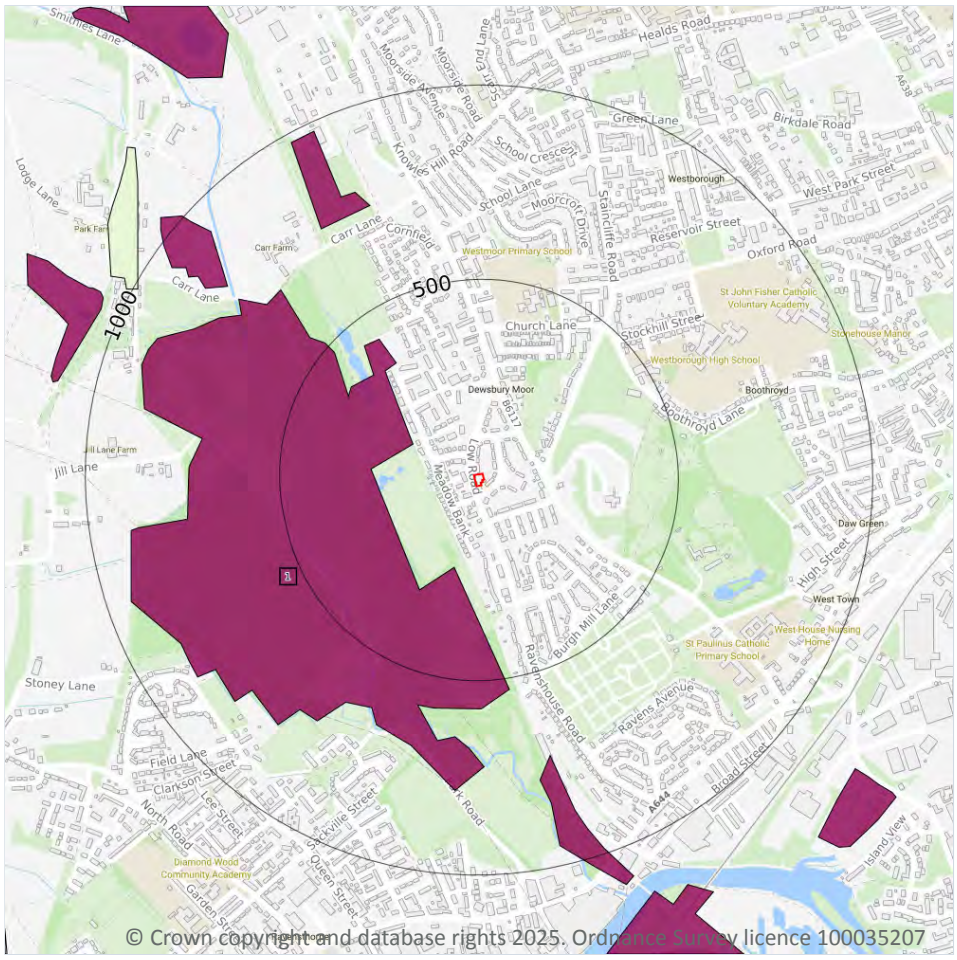
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 89 >**

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



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 90 >**

ID	Location	LEX Code	Description	Rock description
1	176m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

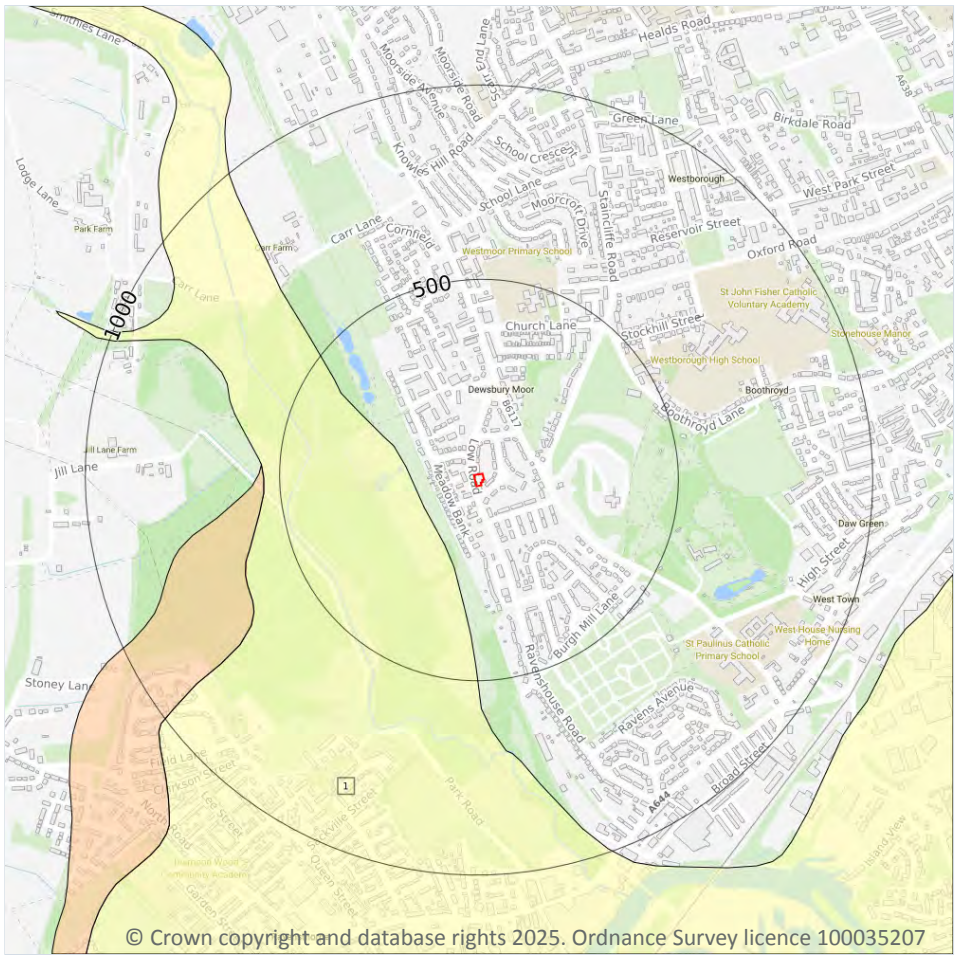
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 92 >**

ID	Location	LEX Code	Description	Rock description
1	144m SW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m **22**

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 94 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**BRSR-SDST**	**BIRSTALL ROCK - SANDSTONE**	**WESTPHALIAN**
2	7m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
3	55m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
8	162m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	162m E	BRSR-SDST	BIRSTALL ROCK - SANDSTONE	WESTPHALIAN
11	164m SW	LPE-SDST	LEPTON EDGE ROCK - SANDSTONE	WESTPHALIAN
13	182m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
14	190m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	201m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
17	215m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	227m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
22	252m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
23	268m E	BRSR-SDST	BIRSTALL ROCK - SANDSTONE	WESTPHALIAN
25	280m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
27	316m W	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
28	356m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
29	362m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
31	382m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
38	450m SE	ER-SDST	EMLEY ROCK - SANDSTONE	WESTPHALIAN
40	457m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
43	492m W	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
44	496m SE	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**	**High**	**Moderate**
7m W	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	22

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.

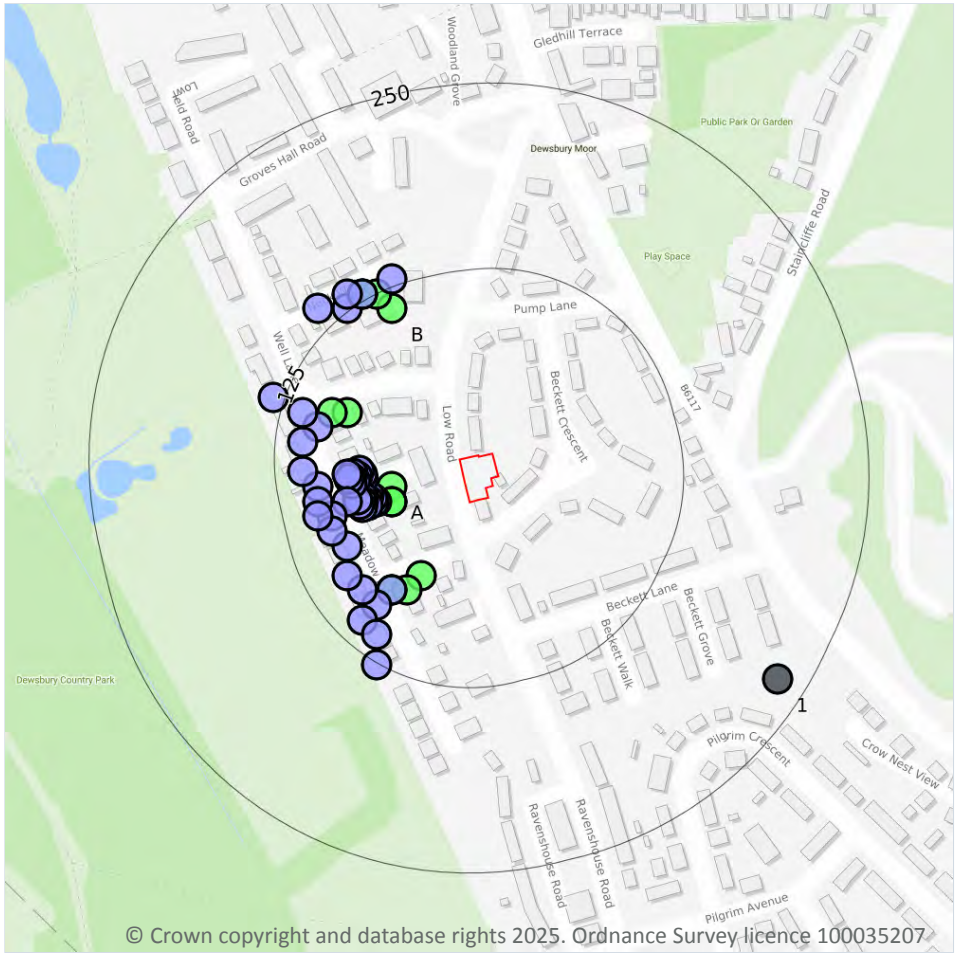
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 94 >**

ID	Location	Category	Description
4	55m E	ROCK	Coal seam, inferred
5	59m W	ROCK	Coal seam, inferred
6	124m E	ROCK	Coal seam, inferred
7	144m SW	ROCK	Coal seam, inferred
9	162m N	FAULT	Fault, inferred
12	165m N	ROCK	Coal seam, inferred
16	214m W	ROCK	Coal seam, inferred
18	225m E	ROCK	Coal seam, inferred
20	227m NE	FAULT	Fault, inferred
21	228m NE	ROCK	Coal seam, inferred
24	268m E	ROCK	Coal seam, inferred
26	280m NE	FAULT	Fault, inferred
30	362m W	ROCK	Coal seam, inferred

ID	Location	Category	Description
32	382m NE	FAULT	Fault, inferred
33	383m E	ROCK	Coal seam, inferred
34	411m NE	ROCK	Coal seam, inferred
35	417m N	ROCK	Coal seam, inferred
36	428m W	ROCK	Coal seam, inferred
37	434m NE	ROCK	Coal seam, inferred
39	450m SE	FAULT	Fault, inferred
41	459m E	ROCK	Coal seam, inferred
42	468m SE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m	59

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

Features are displayed on the Boreholes map on **page 98 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	49m W	422700 421550	LOW PARK MEADOWS LOW ROAD DEWSBURY 9	10.1	N	15630436 ↗
A	51m W	422700 421540	LOW PARK MEADOWS LOW ROAD DEWSBURY 10	10.1	N	15630438 ↗

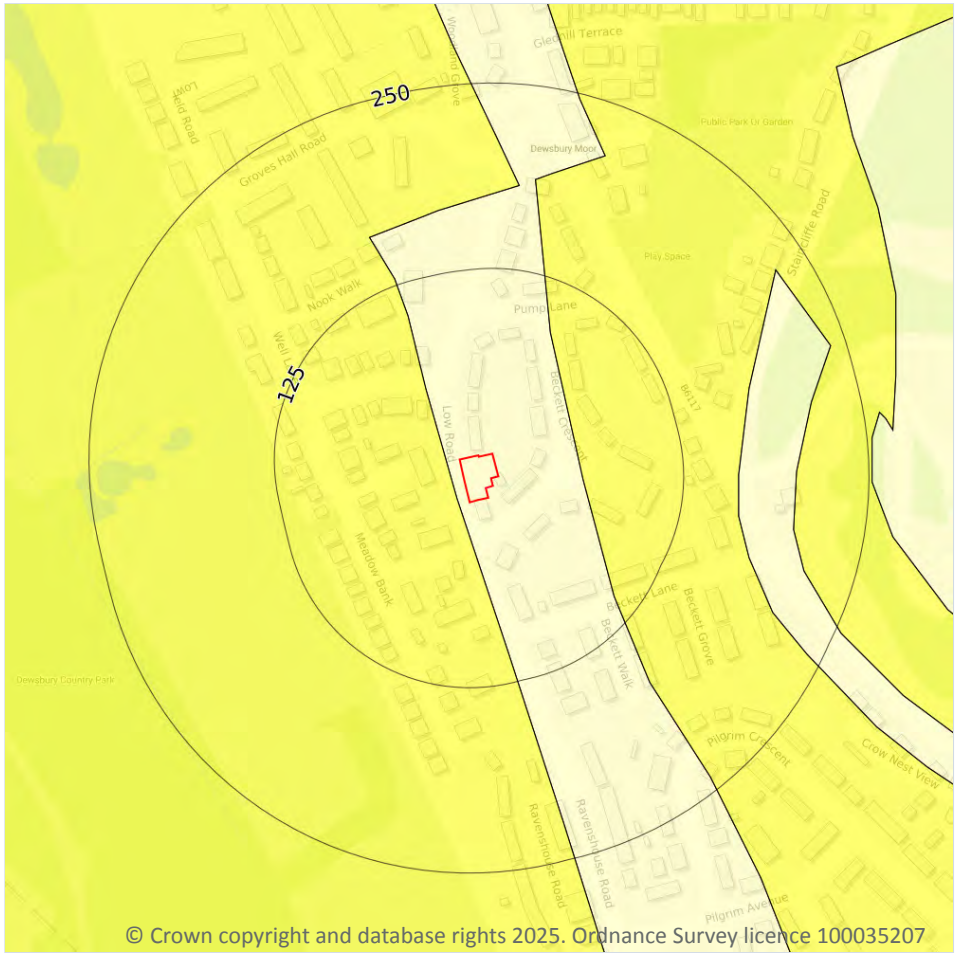
ID	Location	Grid reference	Name	Length	Confidential	Web link
A	51m W	422700 421540	LOW PARK MEADOWS LOW ROAD DEWSBURY 11	10.1	N	15630439 ↗
A	59m SW	422720 421490	LOW PARK MEADOWS LOW ROAD DEWSBURY 18	13.1	N	15630449 ↗
A	61m W	422690 421540	LOW PARK MEADOWS LOW ROAD DEWSBURY 12	10.1	N	15630440 ↗
A	63m W	422688 421539	CONEY WALK DEWSBURY 1	7.0	N	78022 ↗
A	63m W	422687 421542	CONEY WALK DEWSBURY 7	7.0	N	78028 ↗
A	65m W	422685 421544	CONEY WALK DEWSBURY 6	7.0	N	78027 ↗
A	66m W	422681 421555	CONEY WALK DEWSBURY 13	6.0	N	78034 ↗
A	66m W	422684 421541	CONEY WALK DEWSBURY 8	7.0	N	78029 ↗
A	67m W	422680 421558	CONEY WALK DEWSBURY 20	6.0	N	78041 ↗
A	67m W	422684 421537	CONEY WALK DEWSBURY 2	7.0	N	78023 ↗
A	68m W	422678 421561	CONEY WALK DEWSBURY 14	6.0	N	78035 ↗
A	69m W	422681 421543	CONEY WALK DEWSBURY 5	6.0	N	78026 ↗
A	69m W	422681 421540	CONEY WALK DEWSBURY 9	6.0	N	78030 ↗
A	70m W	422677 421557	CONEY WALK DEWSBURY 19	6.0	N	78040 ↗
A	70m W	422680 421540	LOW PARK MEADOWS LOW ROAD DEWSBURY 13	9.0	N	15630444 ↗
A	70m W	422680 421540	LOW PARK MEADOWS LOW ROAD DEWSBURY 14	7.2	N	15630445 ↗
A	71m W	422676 421554	CONEY WALK DEWSBURY 12	6.0	N	78033 ↗
A	71m W	422680 421536	CONEY WALK DEWSBURY 3	6.0	N	78024 ↗
A	72m W	422674 421559	CONEY WALK DEWSBURY 15	6.0	N	78036 ↗
A	73m W	422678 421538	CONEY WALK DEWSBURY 10	6.0	N	78031 ↗
A	73m SW	422710 421480	LOW PARK MEADOWS LOW ROAD DEWSBURY 19	10.2	N	15630450 ↗
A	73m W	422677 421541	CONEY WALK DEWSBURY 4	5.0	N	78025 ↗
A	74m W	422673 421556	CONEY WALK DEWSBURY 18	6.0	N	78039 ↗
A	75m W	422673 421552	CONEY WALK DEWSBURY 11	6.0	N	78032 ↗
A	76m W	422671 421555	CONEY WALK DEWSBURY 17	6.0	N	78038 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	77m W	422670 421558	CONEY WALK DEWSBURY 16	6.0	N	78037 ↗
A	79m SW	422700 421480	LOW PARK MEADOWS LOW ROAD DEWSBURY 20	10.1	N	15630452 ↗
A	79m SW	422700 421480	LOW PARK MEADOWS LOW ROAD DEWSBURY 21	8.0	N	15630453 ↗
A	80m W	422670 421540	LOW PARK MEADOWS LOW ROAD DEWSBURY 15	6.0	N	15630446 ↗
A	82m NW	422670 421600	LOW PARK MEADOWS LOW ROAD DEWSBURY 36	13.1	N	15630471 ↗
A	88m W	422670 421510	LOW PARK MEADOWS LOW ROAD DEWSBURY 28	4.1	N	15630461 ↗
A	92m W	422660 421600	LOW PARK MEADOWS LOW ROAD DEWSBURY 35	10.1	N	15630470 ↗
A	92m W	422660 421530	LOW PARK MEADOWS LOW ROAD DEWSBURY 16	4.1	N	15630447 ↗
A	93m SW	422690 421470	LOW PARK MEADOWS LOW ROAD DEWSBURY 22	7.1	N	15630454 ↗
A	94m SW	422680 421480	LOW PARK MEADOWS LOW ROAD DEWSBURY 26	7.1	N	15630459 ↗
A	95m W	422660 421520	LOW PARK MEADOWS LOW ROAD DEWSBURY 29	4.1	N	15630462 ↗
A	96m SW	422670 421490	LOW PARK MEADOWS LOW ROAD DEWSBURY 27	5.0	N	15630460 ↗
A	98m W	422650 421550	LOW PARK MEADOWS LOW ROAD DEWSBURY 31	7.1	N	15630465 ↗
A	98m W	422650 421590	LOW PARK MEADOWS LOW ROAD DEWSBURY 34	7.1	N	15630468 ↗
A	100m W	422650 421540	LOW PARK MEADOWS LOW ROAD DEWSBURY 30	7.1	N	15630463 ↗
A	102m W	422650 421530	LOW PARK MEADOWS LOW ROAD DEWSBURY 17	3.5	N	15630448 ↗
A	106m W	422640 421560	LOW PARK MEADOWS LOW ROAD DEWSBURY 32	7.1	N	15630466 ↗
A	107m W	422640 421580	LOW PARK MEADOWS LOW ROAD DEWSBURY 33	4.1	N	15630467 ↗
A	108m SW	422680 421460	LOW PARK MEADOWS LOW ROAD DEWSBURY 23	7.1	N	15630455 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	109m SW	422690 421450	LOW PARK MEADOWS LOW ROAD DEWSBURY 24	7.8	N	15630456 ↗
A	111m W	422640 421600	LOW PARK MEADOWS LOW ROAD DEWSBURY 37	7.1	N	15630472 ↗
B	112m NW	422700 421670	LOW PARK MEADOWS LOW ROAD DEWSBURY 2	10.1	N	15630428 ↗
B	125m NW	422690 421680	LOW PARK MEADOWS LOW ROAD DEWSBURY 3	10.1	N	15630430 ↗
A	126m SW	422690 421430	LOW PARK MEADOWS LOW ROAD DEWSBURY 25	8.5	N	15630458 ↗
B	127m NW	422670 421670	LOW PARK MEADOWS LOW ROAD DEWSBURY 7	4.1	N	15630434 ↗
B	130m NW	422680 421680	LOW PARK MEADOWS LOW ROAD DEWSBURY 4	10.1	N	15630431 ↗
B	130m NW	422680 421680	LOW PARK MEADOWS LOW ROAD DEWSBURY 5	7.5	N	15630432 ↗
B	130m N	422700 421690	LOW PARK MEADOWS LOW ROAD DEWSBURY 1	9.1	N	15630427 ↗
A	133m W	422620 421610	LOW PARK MEADOWS LOW ROAD DEWSBURY 38	7.1	N	15630473 ↗
B	135m NW	422670 421680	LOW PARK MEADOWS LOW ROAD DEWSBURY 6	6.0	N	15630433 ↗
B	140m NW	422650 421670	LOW PARK MEADOWS LOW ROAD DEWSBURY 8	3.0	N	15630435 ↗
1	230m SE	422960 421420	HECKMONDWIKE ROAD DEWSBURY 1	-	Y	N/A

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

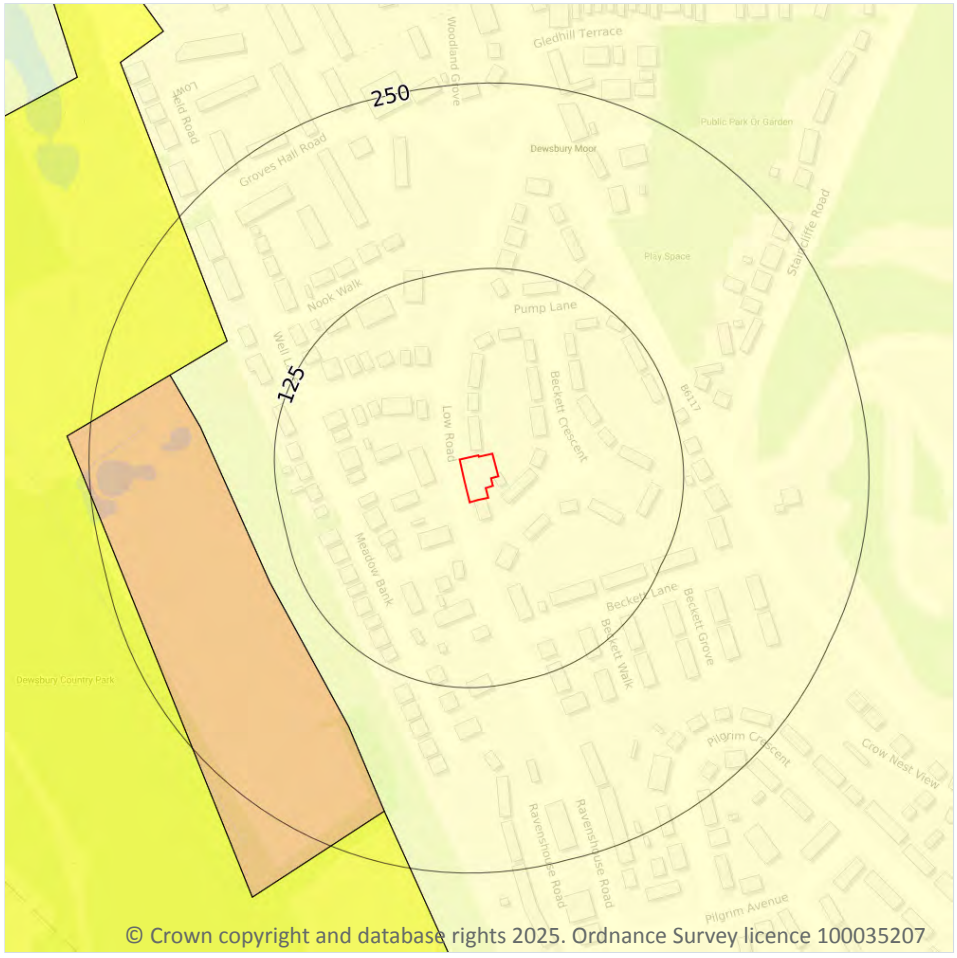
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 102 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
7m W	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	1

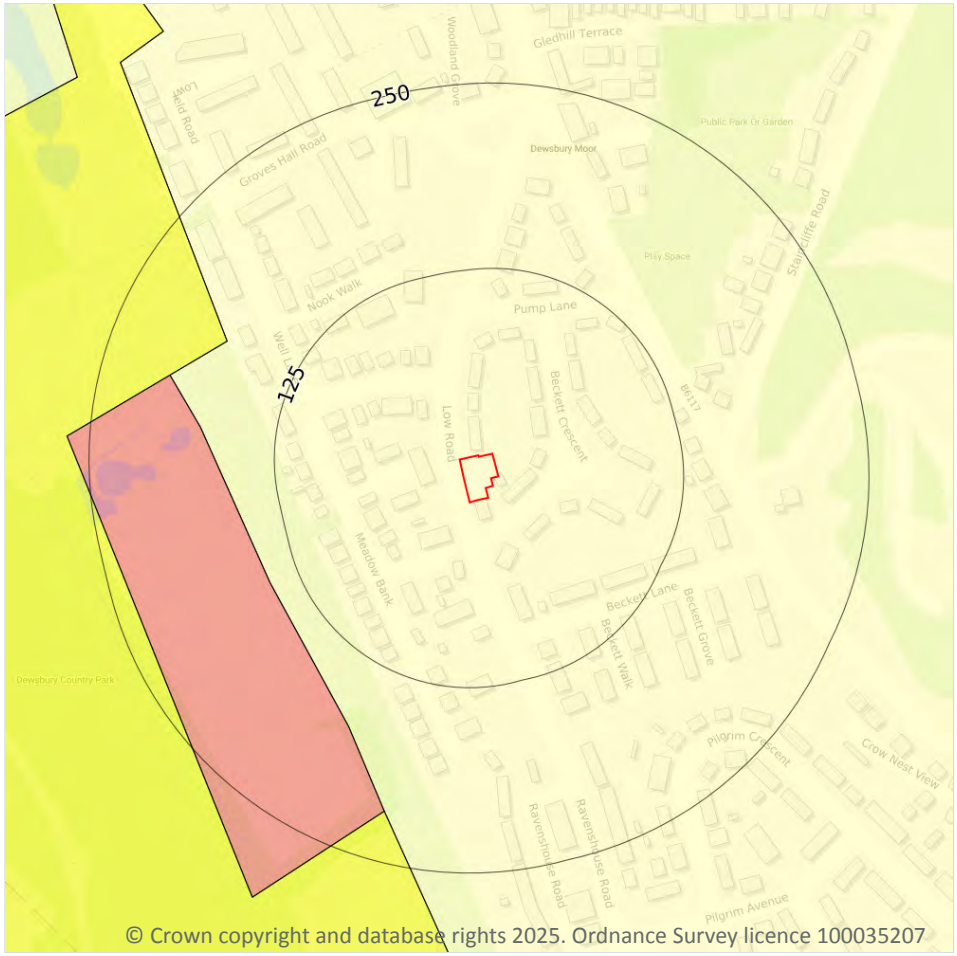
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 103 >**

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



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17.3 Compressible deposits

Records within 50m	1

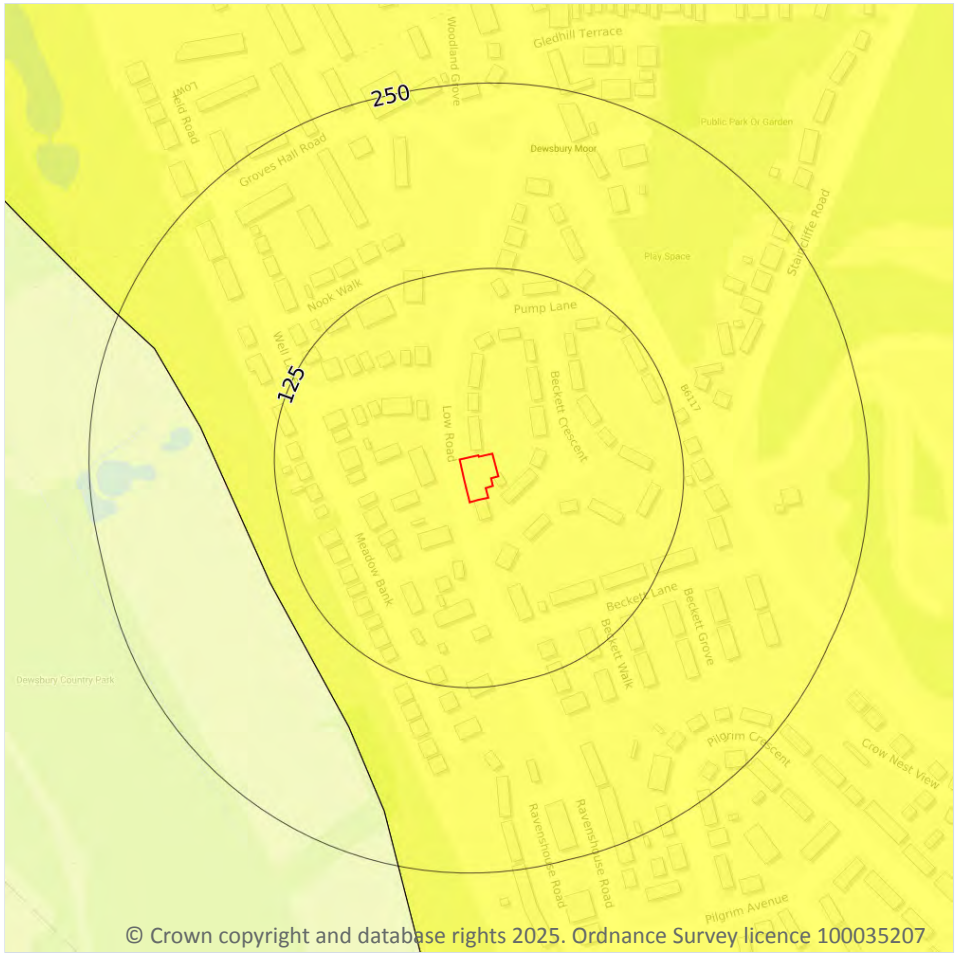
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 104 >**

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

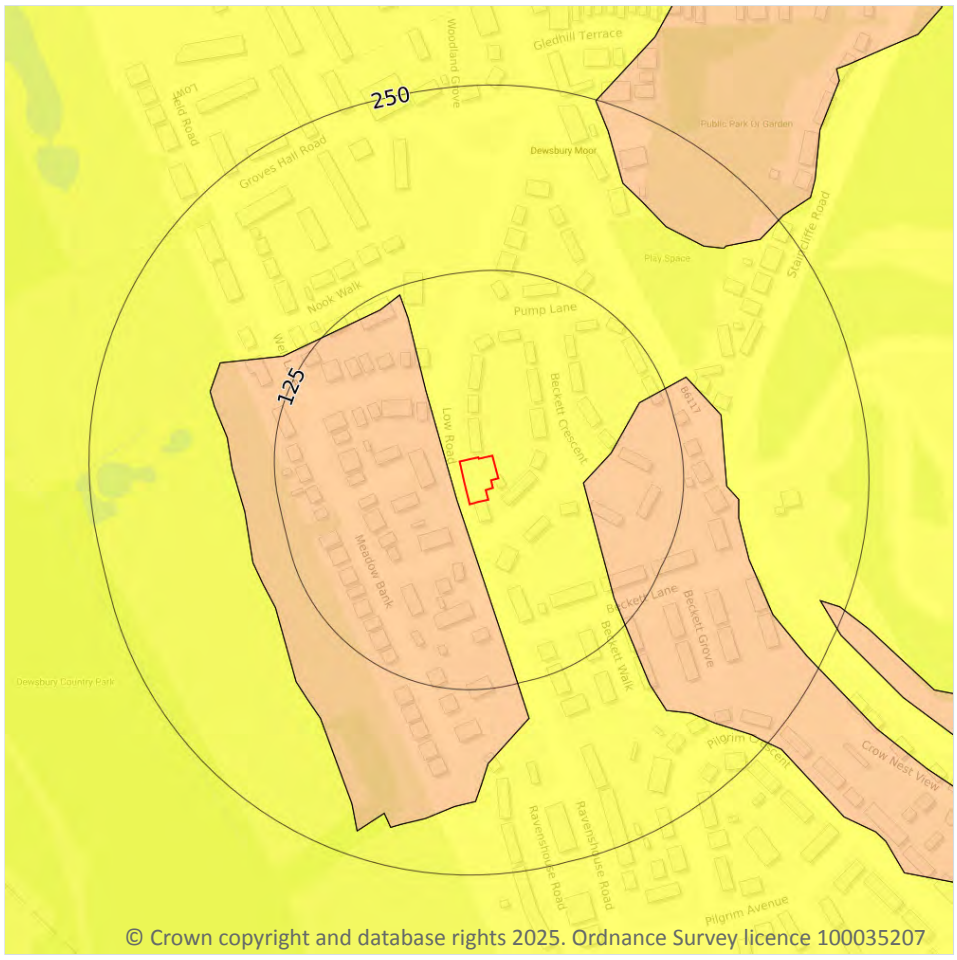
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 105 >**

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	2

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 106 >**

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.**

Location	Hazard rating	Details
7m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

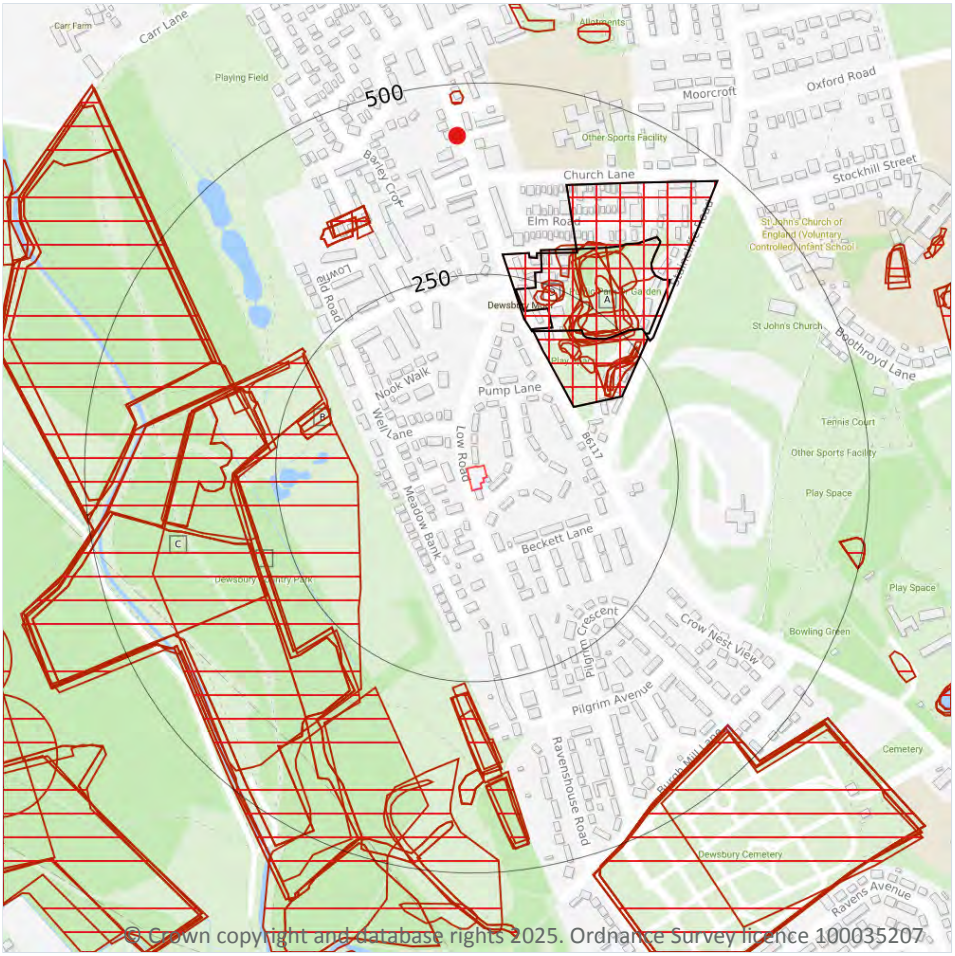
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 108 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	1

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

Features are displayed on the Mining and ground workings map on **page 110 >**

ID	Location	Details	Description
M	433m N	Name: Dewsbury Moor Quarry Address: Boothroyd, DEWSBURY, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m **28**

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 110 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	140m NE	Colliery	1905	1:10560
1	143m W	Sewage Farm	1905	1:10560
A	181m NE	Unspecified Pit	1905	1:10560
A	181m NE	Unspecified Pit	1892	1:10560
A	183m NE	Unspecified Ground Workings	1938	1:10560
A	183m NE	Unspecified Ground Workings	1938	1:10560
A	184m NE	Unspecified Heap	1892	1:10560
A	184m NE	Unspecified Ground Workings	1948	1:10560
A	184m NE	Unspecified Ground Workings	1905	1:10560
A	186m N	Colliery	1892	1:10560
B	187m W	Unspecified Heap	1905	1:10560
B	187m W	Unspecified Heap	1892	1:10560
B	187m W	Unspecified Heap	1931	1:10560
A	189m NE	Unspecified Ground Workings	1955	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
B	192m W	Unspecified Heap	1955	1:10560
A	201m NE	Refuse Heap	1948	1:10560
A	202m NE	Refuse Heap	1905	1:10560
A	204m NE	Refuse Heap	1938	1:10560
A	204m NE	Refuse Heap	1938	1:10560
C	209m NW	Sewage Works	1938	1:10560
C	209m NW	Sewage Works	1938	1:10560
A	212m NE	Unspecified Heap	1974	1:10000
A	212m NE	Unspecified Heap	1967	1:10560
A	212m NE	Refuse Heap	1955	1:10560
A	220m NE	Refuse Heap	1892	1:10560
D	224m N	Unspecified Heap	1905	1:10560
D	230m N	Unspecified Pit	1892	1:10560
D	239m NE	Unspecified Pit	1905	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 110 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	140m NE	Colliery	1905	1:10560
A	186m N	Colliery	1892	1:10560
-	938m SE	Colliery	1892	1:10560
-	956m NW	Colliery	1892	1:10560
-	982m NW	Disused Colliery	1905	1:10560
-	994m NW	Colliery	1892	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	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	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

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

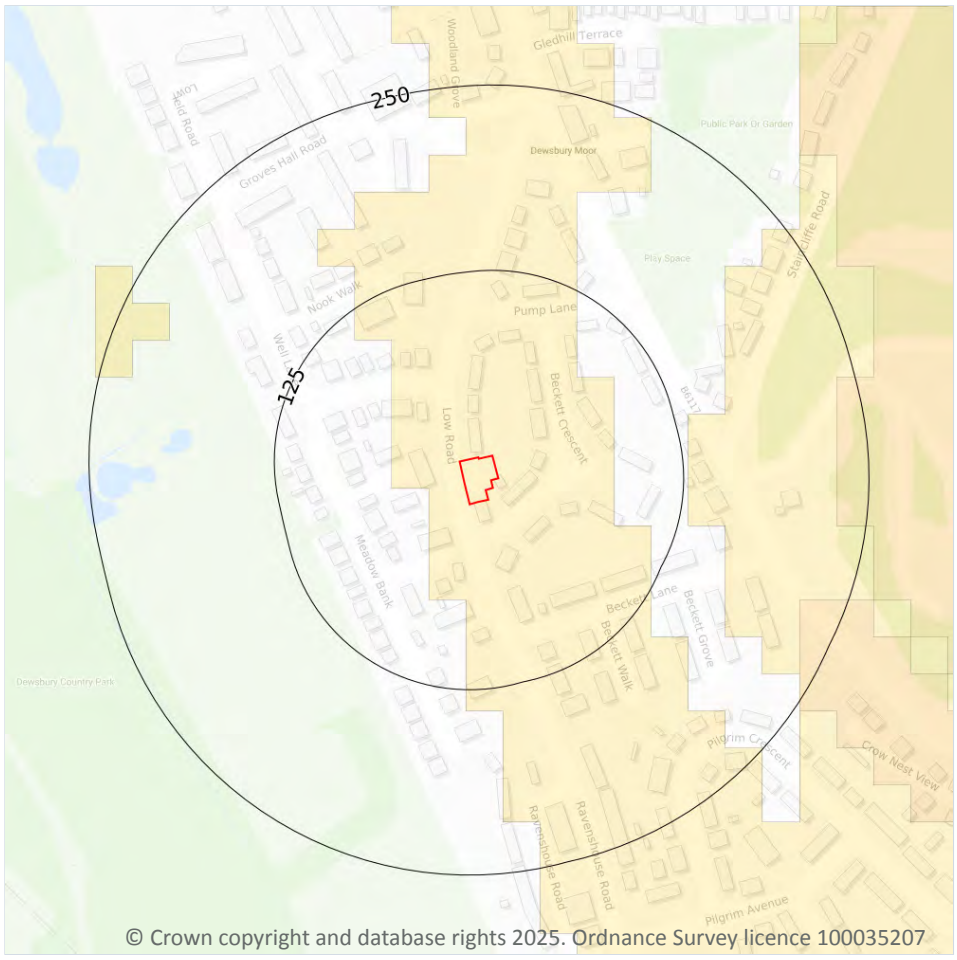
Records within 500m	0

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

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

This data is sourced from Groundsure.

20 Radon



Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

20.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 118 >**

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	4

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 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	**35 - 45 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
7m W	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
39m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
40m S	35 - 45 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 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.

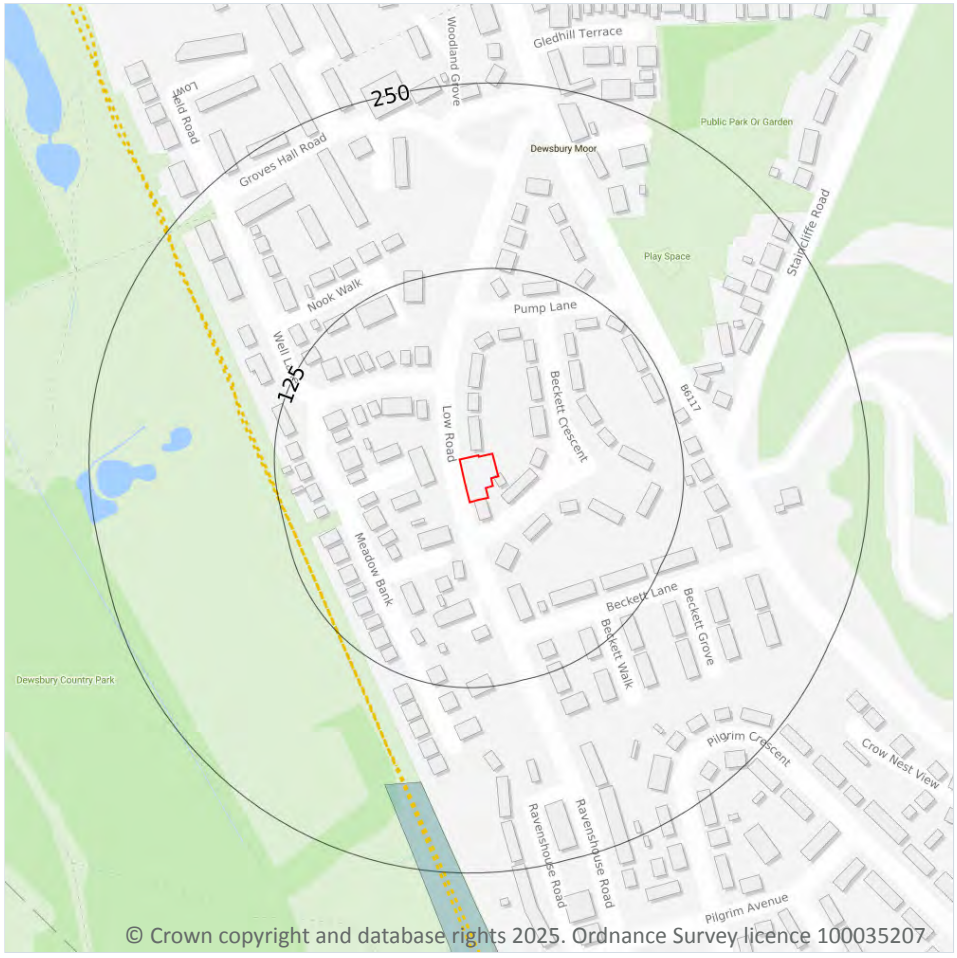
21.3 BGS Measured Urban Soil Chemistry

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



Site Outline

Search buffers in metres (m)

- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	1

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

Features are displayed on the Railway infrastructure and projects map on **page 122 >**

Location	Land Use	Year of mapping	Mapping scale
192m S	Railway	1938	-

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	3

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

Features are displayed on the Railway infrastructure and projects map on **page 122 >**

Location	Description
117m SW	Historical OSM

Location	Description
117m SW	Abandoned
184m S	Historical OSM

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









Rogers Geotechnical Services Ltd

Offices 1 & 2, Barncliffe Business Park,
Near Bank, Shelley,
Huddersfield,

Job No:

C4173/25/E/8276

Site:

Land adjacent to Low Road,
Dewsbury Moor,
Dewsbury,
WF13 3PR.

Client:

APS Autocare Ltd

ground investigation | drilling & excavation | insitu testing
laboratory testing & gas monitoring | engineering consultancy
surveying & flood risk assessments | training, CPD & expert witness
... delivered using our own drilling rigs / crews / soils lab / engineers









Rogers Geotechnical Services Ltd

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surveying & flood risk assessments | training, CPD & expert witness
... delivered using our own drilling rigs / crews / soils lab / engineers







