
FENWICK SOLAR FARM

Preliminary Environmental Information Report

**Volume III Appendix 14-4: Phase 1 Preliminary Risk Assessment
– Grid Connection Corridor**

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Prepared for:
Fenwick Solar Project Limited

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Executive Summary

A Stage 1, Tier 1 Preliminary Risk Assessment (PRA) (as defined by the Government guidance titled 'Land Contamination Risk Management') of the Grid Connection Corridor of Fenwick Solar Farm has been undertaken by AECOM Limited to support the Development Consent Order Application.

The Grid Connection Corridor comprises the installation of the 400 kilovolt (kV) and associated cables (the Grid Connection Cables) would be installed between the On-Site Substation within the Solar PV Site to the Existing National Grid Thorpe Marsh Substation.

The purpose of this PRA is to determine whether potentially contaminative land uses have taken place within, or in close proximity to the Grid Connection Corridor which could have led to the contamination of underlying soils and/or groundwater.

The Grid Connection Corridor consists of fields mainly under arable production, interspersed with individual trees and hedgerows. Carcroft Junction to Stainforth Junction railway line crosses the southern part of the Grid Connection Corridor, north of Ash Road. The Grid Connection Corridor is mainly surrounded by agricultural fields and wooded areas, with some agricultural buildings and dwellings located adjacent the Grid Connection Corridor. The Grid Connection Corridor lies within the Bramwith Drain from Source to River Don water body; within the Don from Mill Dyke to River Ouse water body, and within the Ea Beck from the Skell to River Don water body.

The anticipated geology includes quaternary deposits over sedimentary bedrock of sandstone formations. The northern part of the Grid Connection Corridor is directly underlain by Unproductive Strata associated with a glaciolacustrine formation, and the southern part of the Grid Connection Corridor is directly underlain by a Secondary A aquifer associated with alluvial deposits. The solid geology of the Sherwood Sandstone Group, which extends at depth beneath the quaternary deposits, is classified as a Principal Aquifer.

Based on a review of historical maps, most of the Grid Connection Corridor was undeveloped land/agricultural fields since the earliest available historical maps (late 1800s). The former Thorpe Marsh Power Station was located across the southern part of the Grid Connection Corridor between 1960s and early 2000s. Former railways (Gowdall and Braithwell railway line) have also been identified cross the southern part of the Grid Connection Corridor, between 1930s and 1960s. Potential contaminative sources identified locally within the Grid Connection Corridor may be associated with former small ponds/pits which may have been filled with a variety of (potentially unlicensed) waste materials.

The potential geo-environmental risks identified have been assessed by the PRA as being very low to low, considering the proposed use of the area as a Grid Connection Corridor. It is assumed that site investigation information

may be required along the cable run to inform soil disposal and the health and safety of construction workers, and limited investigation is therefore likely to be required in the areas of potential contamination to confirm the results of this PRA.

The information collected as part of this PRA suggests that there are no significant constraints with regards to contamination of soil and groundwater that would limit the development of the Grid Connection Corridor.

The regional unexploded bomb (UXB) mapping published by Zetica shows that the Grid Connection Corridor lies within a zone that experiences a low risk of UXB.

The Grid Connection Corridor is located within a Coal Mining Reporting Area. It is recommended that a coal mining report from the Coal Authority is commissioned. However, there are no Development High Risk Areas within the Grid Connection Corridor noted on the Coal Authority's Interactive Map Viewer.

1. Introduction

1.1 Terms of Appointment

- 1.1.1 On the instruction of Fenwick Solar Project Limited (hereafter referred to as ‘the Applicant’), AECOM Limited (AECOM) has undertaken a Stage 1, Tier 1 Preliminary Risk Assessment (PRA) (as defined by Government guidance titled ‘Land Contamination Risk Management’ (Ref. 1)) of the Grid Connection Corridor of Fenwick Solar Farm.
- 1.1.2 The Grid Connection Corridor comprises the installation of the 400 kilovolt (kV) and associated cables (the Grid Connection Cables) that would be installed between the On-Site Substation within the Solar PV Site to the Existing National Grid Thorpe Marsh Substation.
- 1.1.3 Together with the Solar PV Site, the Grid Connection Corridor would allow for the generation, storage, and export of more than 50 megawatts (MW) electrical generation capacity. Due to this proposed generating capacity, it is classified as a Nationally Significant Infrastructure Project (NSIP) and will therefore require consent via a Development Consent Order (DCO) under the Planning Act 2008 (Ref. 2) for its construction, operation and maintenance, and decommissioning.
- 1.1.4 **Preliminary Environmental Information Report (PEIR) Volume II Figure 1-2: Site Boundary Plan** shows the maximum area of land potentially required for the construction, operation and maintenance, and decommissioning. The Grid Connection Corridor boundary represents the current maximum extent of land being considered and may be further refined.
- 1.1.5 Further details regarding the Grid Connection Corridor are presented in **PEIR Volume I Chapter 2: The Scheme**.
- 1.1.6 The Solar PV Site has been assessed separately in **PEIR Volume III Appendix 14-3: Phase 1 Preliminary Risk Assessment – Solar PV Site**.

1.2 Report Objectives

- 1.2.1 The primary objective of this PRA is to determine whether potentially contaminative land uses which could have led to the contamination of underlying soils and/or groundwater have taken place within, or in close proximity to, the Grid Connection Corridor. This PRA aims to identify and evaluate potential land quality risks and development constraints associated with the Grid Connection Corridor and to construct an initial conceptual site model (CSM) that can be used to inform future decision making and the design of future ground investigation, if needed.
- 1.2.2 This PRA is prepared to support a DCO Application under the requirements of the Planning Act 2008 (as amended) (Ref. 2), the National Planning Policy Framework 2023 (Ref. 3) and considers the potential implications of Part 2A of the Environmental Protection Act 1990 (Ref. 4) and the associated Contaminated Land (England) Regulations 2006 (as amended) (Ref. 5). Relevant legislation, policy and guidance is noted in **PEIR Volume III Appendix 14-1: Legislation, Policy and Guidance (Other Environmental Topics)**.

- 1.2.3 The planning policies from relevant National Policy Statements (NPS) that have been considered in this assessment include:
- a. Overarching NPS for Energy (NPS EN-1) (Ref. 6), with particular reference to sections 5.3 Biodiversity and Geological Conservation and 5.15 Water Quality and Resources;
 - b. NPS for Renewable Energy Infrastructure (EN-3) (Ref. 7), with particular reference to the recommendation to utilise suitable previously developed land, brownfield land, contaminated land and industrial land, where possible, as a suitable site location; and
 - c. NPS for Electricity Networks Infrastructure (NPS EN-5) (Ref. 8), with particular reference to impact of electricity networks on soils and geological conservation.
- 1.2.4 This PRA has been prepared in general accordance with the technical guidance and procedures described in the UK Government guidance (applicable to England, Northern Ireland and Wales) 'Land Contamination Risk Management' 2023 (Ref. 1); British Standard (BS) 5930:2015+A1:2020 Code of Practice for Ground Investigations (Ref. 9) and BS 10175:2011+A2:2017 Investigation of Potentially Contaminated Sites – Code of Practice (Ref. 10) to:
- a. Describe the geology, hydrogeology and shallow mining potential across the Grid Connection Corridor;
 - b. Describe the environmental setting/sensitivity and current/historical land use of the Grid Connection Corridor and surrounding area;
 - c. Describe the findings of a site reconnaissance visit;
 - d. Provide an initial CSM for the prevailing ground conditions; and
 - e. Using the source-pathway-receptor model, present a qualitative PRA of potential land contamination risks to human health (chronic), environmental, and controlled water receptors from contamination sources on, or in the vicinity of, the Grid Connection Corridor.

1.3 Sources of Information

- 1.3.1 This PRA has been prepared using a combination of published records (e.g. British Geological Survey (BGS), Environment Agency and Department for Environment, Food and Rural Affairs (Defra)). These include statutory records and historical mapping supplied within a Groundsure Report (Ref. 11), published geological and hydrogeological mapping, historical borehole records and observations made during a site reconnaissance visit completed on the 12 January 2024. The site reconnaissance included a visual inspection (non-intrusive survey) of the Grid Connection Corridor to identify the range of activities undertaken on the Grid Connection Corridor and obvious potential sources of ground contamination present at the time of the visit.
- 1.3.2 The City of Doncaster Council website (Ref. 12) has been reviewed for any 'contaminated land' register entries as defined under the Environmental Protection Act 1990, Part 2A (Ref. 4), within the Grid Connection Corridor and surrounding areas.

- 1.3.3 An Unexploded Bomb (UXB) Risk Map from Zetica (Ref. 13) has been obtained and included as Annex C.
- 1.3.4 Specific information sources are referenced throughout the document and a bibliography is included in Section 13 of this Appendix.

2. Site Setting

2.1 Location

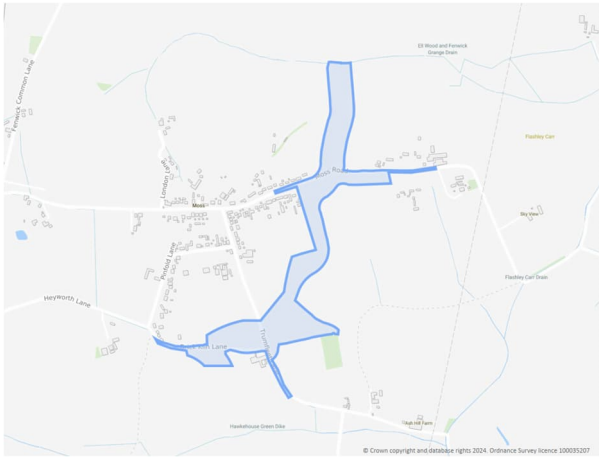
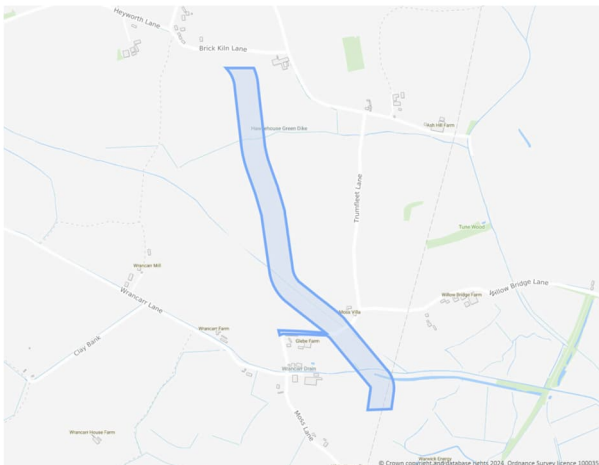
2.1.1 The Grid Connection Corridor is located within the administrative area of the City of Doncaster Council, approximately 6 km north of Doncaster. The Grid Connection Corridor extends from National Grid Reference (NGR) SE 602149 to NGR SE 601087 with an area of approximately 115 ha.

2.2 Description and Setting

2.2.1 The Grid Connection Corridor is shown in **PEIR Volume II Figure 1-2: Site Boundary Plan**. It is important to note at this may be subject to change as the design and environmental impact assessment (EIA) progress and comments from stakeholders and the public during the statutory consultation are taken into account.

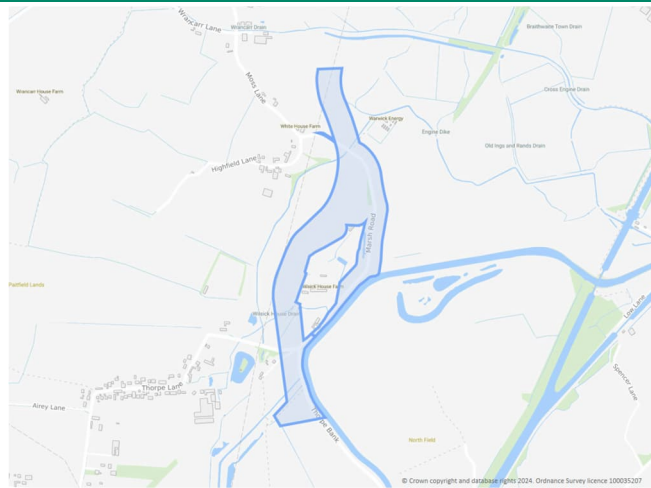
2.2.2 To facilitate the assessment, the Grid Connection Corridor has been divided into sections (A to D) (refer to the Groundsure Report (Ref. 11) with extracts in Table 2-1).

Table 2-1: Sections of the Grid Connection Corridor

Section	Description	Map (Ref. 11)
A	From Eil Wood and Fenwick Grange Drain to Trumfleet Lane and Brick Kiln Lane (refer to the Groundsure Report GSIP-2024-14447-16721_A).	
B	From Brick Kiln Lane to Wrancarr Drain (refer to the Groundsure Report GSIP-2024-14447-16721_B).	

Section Description **Map (Ref. 11)**

Section C From south of Wrancarr Drain to Thorpe Bank (refer to the Groundsure Report GSIP-2024-14447-16721_C).



Section D From Thorpe Bank to Fordstead Lane (refer to the Groundsure Report GSIP-2024-14447-16721_D).



- 2.2.3 Section A mainly comprises agricultural fields under arable production, individual trees and hedgerows. Where there are hedgerows, these generally form the boundaries of fields as they adjoin roads. Moss Road, Trumfleet Lane and Brick Kiln Lane are included within the Site Boundary of the Grid Connection Corridor.
- 2.2.4 Section B similarly comprises agricultural fields under arable production, individual trees and hedgerows, but transects the following features (from north to south): the Hawkehouse Green Dike, Dick Mill, Trumfleet Lane and Wrancarr Drain.
- 2.2.5 Section C mainly comprises agricultural fields and includes Marsh Road and Thorpe Bank, which runs on-site along the eastern boundary of the Grid Connection Corridor. Two electricity pylons are located within this section. Livestock were observed in a few areas of Section C during the site reconnaissance.
- 2.2.6 Section D includes agricultural fields and areas of woodland in its northern extent and areas associated with a former Thorpe Marsh Power Station in its southern extent. A railway line (Carcroft Junction to Stainforth Junction railway line) transects the central section of Section D. The Existing National Grid Thorpe Marsh Substation occupies the southern part of Section D.

- 2.2.7 The topography of the Grid Connection Corridor is relatively flat, with existing ground levels under 10 m Above Ordnance Datum (AOD) according to online Ordnance Survey (OS) mapping (Ref. 14).
- 2.2.8 Relevant features immediately surrounding the Grid Connection Corridor are summarised in Table 2-2, sourced from Google Earth (Ref. 15) and the Groundsure Report (Ref. 11).

Table 2-2: Features Surrounding the Grid Connection Corridor

Section	Feature Surrounding the Grid Connection Corridor
Section A	<p>North – Agricultural land.</p> <p>East – Agricultural land. A few farms are located adjacent east of the Grid Connection Corridor in Moss Lane.</p> <p>South – Agricultural land. Farms are located adjacent south of the Grid Connection Corridor in Brick Kiln Lane.</p> <p>West – Agricultural land and the village of Moss. Residential properties and a transport, storage and delivery site (Brason Transport Ltd) are located on Moss Road, adjacent the Grid Connection Corridor in the village of Moss. Residential properties are also located adjacent the Grid Connection Corridor in Brick Kiln Lane.</p>
Section B	<p>West – Agricultural fields. A farm (Glebe Farm) is located adjacent west of the Grid Connection Corridor in Trumfleet Lane.</p> <p>East – Agricultural fields. Residential properties (Moss Villa) are located adjacent east of the Grid Connection Corridor in Trumfleet Lane.</p>
Section C	<p>West – Agricultural fields and areas of woodland. Ponds are indicated approximately 100 m west of the Grid Connection Corridor, north and south of Thorpe Lane. A farm (White House Farm) is located approximately 50 m west of the Grid Connection Corridor on Marsh Road.</p> <p>East – Agricultural fields. The Trumfleet Power Station, including a series of back up diesel generators and electrical transformers is located approximately 50 m east of the Grid Connection Corridor, south of Engine Dike. The River Don adjoins the Grid Connection Corridor, east of Marsh Road and east of Thorpe Bank.</p> <p>Wilsick House Farm and a pond are located adjacent the Grid Connection Corridor.</p>
Section D	<p>West – Agricultural fields adjoin the northern part of Section D to the west. Lands associated with the former Thorpe Marsh Power Station extend off-site to the west.</p> <p>East – River Don adjoins the eastern boundary of Section D; and River Dun Navigation is approximately 50 m east of Section D. The village of Barnby Dun is located approximately 450 m east of the Grid Connection Corridor at its nearest point.</p>

Section Feature Surrounding the Grid Connection Corridor

South – the Existing National Grid Thorpe Marsh Substation is adjacent south of the Grid Connection Corridor, to the east of Marsh Lane.

3. Geological and Environmental Setting

3.1 Introduction

- 3.1.1 The environmental setting including the topography, geology, hydrogeology, and hydrology are the key factors that influence the way in which contaminants in the soil or groundwater can be transported on or off the Grid Connection Corridor, and also the way in which contamination can affect applicable receptors including controlled waters and users of the Grid Connection Corridor and surrounding areas.
- 3.1.2 The environmental setting of the Grid Connection Corridor has been assessed by making reference to the information sources detailed in Section 1.3.

3.2 Geology and Soils

Published Geology and Exploratory Hole Records

- 3.2.1 AECOM has reviewed publicly available information. The published 1:50,000 scale geological map of the area produced by the BGS (Ref. 16) and the BGS Geindex Onshore online geological mapping (Ref. 17) indicates that the Grid Connection Corridor is underlain by the geological succession summarised in Table 3-1.
- 3.2.2 Five bedrock faults are indicated across the Grid Connection Corridor, including one fault to the south of the village of Moss; one fault to the north of Wrancarr Lane; one fault adjacent north of Moss Road; and two faults northeast of Thorpe in Balne.
- 3.2.3 The BGS maintains an archive of historical exploratory hole records. AECOM has searched the database and those which are considered to provide useful information on the ground profile at the Grid Connection Corridor have been considered as part of the Preliminary Ground Model in Section 7. Copies of these exploratory hole records are included as Annex B. The locations of the boreholes are included in the Groundsure Report (Ref. 11).

Table 3-1: Geology Encountered Across the Grid Connection Corridor

Age	Group or Parent	Geological Stratum	Description	Anticipated Thickness (m) (approximate)	Location
Superficial deposits					
Quaternary Age	Fluvial Deposits	Alluvium	Clay, silt, sand and gravel	Variable.	Across the southern extent of the Grid Connection Corridor (Section C and D), from south of Moss Lane.
Triassic Age	North Pennine Glaciogenic Subgroup	Hemingbrough Glaciolacustrine Formation	Silty clay	Variable, maximum 30 m.	Across the northern part of the Grid Connection Corridor (Section A and B). Potentially present also across the southern part (Section C and D) of the Grid Connection Corridor, beneath the Alluvium. Approximately 50 m east of Section D.
Triassic Age	Yorkshire Catchments Subgroup	Brighton Sand Formation	Sand	Average 1 to 2 m; but can exceed 6 m in some areas.	Scattered areas within 250 m of the Grid Connection Corridor, 20 m south of Moss Road (off-site, south of Section A).

Age	Group or Parent	Geological Stratum	Description	Anticipated Thickness (m) (approximate)	Location
Bedrock					
Induan Age — Anisian Age	New Red Sandstone Supergroup	Sherwood Sandstone Group	Sandstone	Variable, approximately 100 m (refer to BGS borehole SE61SW4).	Across the northern part of the Grid Connection Corridor (Section A and B).
Olenekian Age	New Red Sandstone Supergroup	Chester Formation of the Sherwood Sandstone Group	Sandstone, pebbly (gravelly)	Variable, approximately 45 m (refer to BGS borehole SE61SW4).	Across the southern part of the Grid Connection Corridor (Section C and D).

Soils and Chemistry

- 3.2.4 Natural England (Ref. 18) reports the Agricultural Land Classification (ALC) for the Grid Connection Corridor to be mainly Grade 4 (poor) with some areas of Grade 3 (good to moderate). However, Natural England maps represent a generalised pattern of land classification grades and are not sufficiently accurate for use in the assessment of individual fields. The maps do not show the subdivisions of Grade 3 which are normally mapped by a more detailed survey. Information obtained from Soilscape (Ref. 19) describes the soils within the Grid Connection Corridor as (Soilscape 18) *“slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils”*.
- 3.2.5 The Groundsure Report (Ref. 11) provides indicative information on regional concentrations of five potentially harmful elements (PHEs) including arsenic, cadmium, chromium, nickel and lead in soil. Elevated concentrations of these PHEs can exist because of natural geological conditions or possible anthropogenic contamination. The values are estimated primarily from rural topsoil data collected at a sample density of approximately one per 2 km² (presented in Table 3-2).

Table 3-2: Estimated Soil Chemistry

Potentially Harmful Element	Estimated Geometric Mean Concentration (mg/kg)
Arsenic	(Section A) 15
	(Section B) 15
	(Section C) 15
	(Section D) 15
Cadmium	(Section A) 1.8
	(Section B) 1.8
	(Section C) 1.8
	(Section D) 1.8
Chromium	(Section A) 60 – 90
	(Section B) 60 – 90
	(Section C) 60 – 90 to 90 – 120
	(Section D) 90 – 120
Lead	(Section A) 100
	(Section B) 100 to 100-200
	(Section C) 100 to 100 – 200
	(Section D) 100 to 100 – 200
Bio-accessible lead	(Section A) 60
	(Section B) 60 to 60 – 120
	(Section C) 60 to 60 – 120

	(Section D) 60 to 60 – 120
Nickel	(Section A) 15 – 30
	(Section B) 15 – 30
	(Section C) 15 –30 to 30 – 45
	(Section D) 30 – 45

3.3 Ground Stability Records

3.3.1 Table 3-3 shows the variable risk of ground stability hazards across the Grid Connection Corridor, taken from the Groundsure Report (Ref. 11). All hazard ratings apply to 50 m radius surrounding the Site Boundary of the Grid Connection Corridor.

Table 3-3: Ground Stability Records

Hazard Type	Hazard Potential
Collapsible Hazard	(Section A) Very low
	(Section B) Negligible to very low
	(Section C) Negligible to very low
	(Section D) Negligible to very low
Compressible Hazard	(Sections A and D) Negligible to moderate
	(Sections B and C) Moderate
Ground Dissolution Hazard	(Sections A, B, C and D) Negligible
Landslide Hazard	(Section A) Very low
	(Section B) Very low
	(Section C) Very low
	(Section D) Very low to low
Running Sand Hazard	(Sections A, B and C) Negligible to low
	(Section D) Very low to low
Shrinking or Swelling Clay Hazard	(Section A) Negligible to low
	(Sections B and C) Very low to low
	(Section D) Negligible to very low

Mining and Mineral Extraction

Aggregate/Mineral Quarrying, Mining, Mineral Sites and Plants Extracting Liquid or Gas

- 3.3.2 Table 3-4 presents the available information on mining, quarrying operations and plants extracting liquid or gas (Ref. 11), past or present that are known to have taken place within the Grid Connection Corridor and within 250 m of the Grid Connection Corridor.

Table 3-4: Quarrying and Wellsite, or Other Surface Plant, Extracting Liquid or Gas (<250 m of the Grid Connection Corridor)

Distance and Direction	Name	Commodity/Status
On-site, along the western boundary of Section C, south of Highfield Lane.	Pit (Pit Bridge)	NA
On-site, central extent of Section D, on Thorpe Bank	Thorpe Marsh Power Station (BritPit)	Oil/Ceased
40 m west of Section C, south of Highfield Lane	Unspecified ground workings	NA
50 m east of the Section C, south of Engine Dike. (at the location of the Trumfleet Power Station)	Trumfleet Gasfield (BritPit)	Natural gas/Active

Coal Mining

- 3.3.3 The Coal Authority's Interactive Map Viewer (Ref. 20) and the Groundsure Report (Ref. 11) indicates that the Grid Connection Corridor is within the Nottingham Coal Mining Reporting Area. This is an area which could be affected by past, current or future coal mining. There are no Development High Risk Areas (DHRA) as defined by the Coal Authority within the Grid Connection Corridor (Ref. 20).

3.4 Radon

- 3.4.1 The UK Health Security Agency (UKHSA) and BGS interactive map for radon (Ref. 21) indicates that the Grid Connection Corridor is within a low probability radon area (less than 1% of homes are estimated to be above the Action Level). No radon protective measures are necessary in the construction of new dwellings or extensions.

3.5 Hydrogeology

Aquifer Classification

- 3.5.1 The Environment Agency's Groundwater Protection Policy adopts aquifer designations that are consistent with the Water Framework Directive. Definitions of the various aquifer types can be found on the Environment Agency section of the gov.uk website (Ref. 22). According to this system, the superficial deposits underlying the Grid Connection Corridor are classified as Unproductive Strata (Hemingbrough Glaciolacustrine Formation) and Secondary A Aquifers (Brighton Sand Formation and Alluvium). The bedrock geology of the Sherwood Sandstone Group is classified as a Principal Aquifer.

Groundwater Vulnerability

- 3.5.2 The Environment Agency's Simplified Groundwater Vulnerability Map in Magic (Ref. 23) shows that the Grid Connection Corridor is located in an area where the groundwater vulnerability to pollution is generally low. The groundwater vulnerability is medium and medium-high across the areas where the Brighton Sand Formation and alluvial deposits are mapped.
- 3.5.3 All associated terminology/definitions can be found on the Environment Agency section of the gov.uk website (Ref. 22).

Source Protection Zones and Drinking Water Safeguarding Zones for Groundwater

- 3.5.4 In terms of identifying the risk of contamination from potentially polluting activities in a given area to groundwater sources (wells, boreholes and springs) used for supplying public drinking water, the Environment Agency identifies Source Protection Zones (SPZ). These show the extent of a groundwater source catchment and are divided into three zones, which can be found on the Environment Agency section of the gov.uk website (Ref. 22).
- 3.5.5 The southern part of the Grid Connection Corridor, south of Thorpe in Balne (southern edge of Section C and the entire Section D), lies within a Zone III (Total Catchment) SPZ (Ref. 23).
- 3.5.6 None of the Grid Connection Corridor lies within a Drinking Water Safeguard Zone for surface water or groundwater (Ref. 23).

Licensed Groundwater Abstractions

- 3.5.7 The Groundsure Report (Ref. 11) indicates that a historical groundwater abstraction, used for general farming and domestic purposes, was located at Thorpe in Balne, approximately 330 m west of Section C. The licence was expired in March 2017. No further licensed groundwater abstractions have been identified within 1 km of the Grid Connection Corridor.

Risk of Flooding from Groundwater

- 3.5.8 The Groundsure Report (Ref. 11) indicates that there is generally a moderate to high risk for groundwater flooding to occur within the Grid Connection Corridor. The areas with the highest risk are those surrounding Hawkehouse

Green Dike (Section B) and most of the southern part of the Grid Connection Corridor (Sections C and D).

Surface Water Courses and Drainage

- 3.5.9 The Grid Connection Corridor is located within the Don Lower Catchment (Ref. 24). The Grid Connection Corridor mostly lies within the Bramwith Drain from Source to River Don water body (Water Body ID GB104027063290) (Section B and C). The northern and southeastern parts (Section A and D) of the Grid Connection Corridor lie within the Don from Mill Dyke to River Ouse water body (Water Body ID GB104027064243). The southwestern part (Section D) of the Grid Connection Corridor lies within the Ea Beck from the Skell to River Don water body (Water Body ID GB104027057591). These waterbodies are classified as having the ecological status of moderate in 2022.
- 3.5.10 The main watercourse of the Bramwith Drain from Source to River Don water body is the Hawkehouse Green Dike, which crosses the Grid Connection Corridor to the south of Brick Kiln Lane. The main watercourse of the Don from Mill Dyke to River Ouse water body is the River Don, which borders the Section C and D of the Grid Connection Corridor to the east. The main watercourse of the Ea Beck from the Skell to River Don water body is the Thorpe Marsh Drain, which crosses Section D east of Thorpe in Balne.
- 3.5.11 A series of drains and dikes cross the Grid Connection Corridor, including Mill Dike (Section B), Wrancarr Drain (Section B), Hawkehouse Green Dike (Section B) Engine Dike (Sections C and D) and Wilsick House Drain (Section C).

Licensed Surface Water Abstractions

- 3.5.12 The Groundsure Report (Ref. 11) indicates that no licensed surface water abstraction entries have been identified within the Grid Connection Corridor. Two active surface water abstraction entries have been identified within 250 m of the Grid Connection Corridor, including an abstraction located approximately 75 m east of the Section C, for transfer between sources; and an abstraction located approximately 210 m east of Section C for spray irrigation. Both are abstracting from the River Don. There are further licensed surface abstractions between 250 m and 1 km of the Grid Connection Corridor, for spray irrigation.

Private Water Supplies

- 3.5.13 Following consultation with the Local Authority regarding records of private abstractions, there is one private abstraction within 1 km from the Grid Connection Corridor. This abstraction is located approximately 300 m west of Section C along Thorpe Lane, and it is for domestic use. This abstraction is indicated in **PEIR Volume II Figure 9-2: Groundwater Features and their Attributes**.

Risk of Flooding from Surface Water

- 3.5.14 The indicative floodplain map (Ref. 25) for the area, published by the Environment Agency, shows that the risk of surface water flooding at the Grid

Connection Corridor is generally very low (annual chance of flooding of less than 0.1%) with areas medium (chance of flooding of less than 3.3%) and high risk (chance of flooding of greater than 3.3%) generally associated with watercourses.

River and coastal flooding – Flood Zones

- 3.5.15 The Grid Connection Corridor is located largely within Flood Zone 3 with smaller areas of Flood Zone 2 in Section B and D and Flood Zone 1 toward its northern extent (Section A) (Ref. 25). The Existing National Grid Thorpe Marsh Substation is located entirely within Flood Zone 2. However, the surrounding area is designated as a water storage area with flood defences present along adjacent watercourses. Flood Zones within and adjacent to the Grid Connection Corridor are illustrated in **PEIR Volume II Figure 9-4: Environment Agency Flood Map for Planning (Rivers and Seas)**.

4. Historical and Planned Development

4.1 Historical Ordnance Survey Mapping and Aerial Photographs

- 4.1.1 Historical OS maps of the Grid Connection Corridor and the wider environs were provided in the Groundsure Report (scales 1:2,500, 1:1,250 and 1:10,560) (Ref. 11, Annex A) and are reviewed in this section.
- 4.1.2 The historical OS maps obtained with the Groundsure Report (Ref. 11) date between mid-19th Century to present (2023). Table 4-1 provides a summary of the main features present on, and within, approximately 250 m radius of the Grid Connection Corridor. It should be noted that only indicative map scales are provided. Where dates are stated, these refer to the dates of maps on which the features are present, have changed use or are no longer annotated, and do not necessarily refer to the exact dates of existence of a particular feature. Development that may have occurred between map editions is recorded as occurring on the later published map, hence there are some limitations to the accuracy of the date of development unless supplementary evidence is available.

Table 4-1: Summary of Historical Mapping

Sections of the Grid Connection Corridor	Key Features On-Site	Key Features Off-Site
Section A	a. No features considered relevant to contaminated land.	a. No features considered relevant to contaminated land.
Section B	a. A small pond south of Hawkehouse Green Dike (Section B) is shown as infilled in the historical map dated 1959. b. A small pond south of Wrancarr Drain (Section B) is shown as infilled in the historical maps dated 2001	a. No features considered relevant to contaminated land.
Section C	a. A pit (Pit Bridge) is indicated on-site, beneath Marsh Road in the historical maps dated between 1854 and 2010. b. Railway lines (Gowdall and Braithwell railway line) cross Section C east of Thorpe in Balne, in the historical maps dated between 1930 and 1967.	a. A good station is indicated 20 m west of Section C, in Thorpe in Balne, in the historical maps dated between 1933 and 1951. Railway sidings associated with the good station are shown 90 m west of the Grid Connection Corridor in the historical maps dated between 1948 and 1933. b. Ground workings (Trumfleet Pit) are indicated 40 m west of the Section C, south of Highfield Lane, in the historical map dated 1893. c. An unspecified tank is indicated 220 m west of the Section C, south of Highfield Lane, in the historical maps dated between 1961 and 1984 (historical map GSIP-2024-14447-16720_LS_2-6 large scale). d. The Trumfleet Power Station is indicated approximately 50 m east of the Grid Connection Corridor in the historical map from 2001.

Sections of the Grid Connection Corridor Key Features On-Site

Key Features Off-Site

Section D

- a. A railway (the current Carcroft Junction to Stainforth Junction railway line) is indicated across Section D since 1850s.
 - b. Thorpe Marsh Power Station is shown on-site in the historical map dated between 1960 and 2003. As part of this feature, settling ponds are shown across the southern part of the Section D. Some unspecified tanks bordered the northern extent of the power station. The power station is shown as demolished in the historical map dated 2010.
 - c. Small ponds south of Marsh Drain (Section D) are shown as infilled in the historical map dated 1984.
- a. Railway buildings are indicated 20 m west of the Section D in the historical maps dated between 1967 and 1992.
 - b. Unspecified ground workings are indicated 40 m west of the Section D in the historical maps dated between 1967 and 1982.
 - c. Railway buildings are indicated 120 m west of the Section D in the historical maps dated between 1933 and 1951.
 - d. Cuttings are indicated 170 m west of the Section D in the historical map dated 1951.
 - e. Cuttings are indicated 170 m east of the Section D in the historical maps dated between 1904 and 1907.
 - f. An unspecified heap is indicated 230 m south of the Section D in the historical map dated 1951.

4.2 Local Planning Authority Records

City of Doncaster Council

- 4.2.1 A search of planning application records on, and within, 250 m of the Grid Connection Corridor has been undertaken using the search facility on the City of Doncaster Council website (Ref. 26). There have been several applications for erection of stables and agricultural storages since February 1947 (the earliest available records). Table 4-2 summarises the most relevant applications (where potential impact to the ground may have occurred) in the records dating back to 1947.

Table 4-2: Local Planning Authority Records

Decision Issued Date	Application Status	Location	Reference	Description
24 April 2019	Granted	Bethel House Moss Road, Moss, Doncaster DN6 0HN. On-site, northern extent (Section A).	18/00873/FUL	Construction of a manège, erection of stables, including use of land for the keeping of horses.
21 December 2023	Granted	Wilsic House Farm Marsh Road Thorpe In Balne Doncaster DN6 0DX. On-site, central extent (Section C).	23/02132/CP E	Certificate for existing lawful use for the construction of a detached barn/storage building for farm equipment.
13 January 2015	Decided	Thorpe Marsh Power Station Marsh Lane Barnby Dun Doncaster DN3 1ET. On-site, southern edge (Section D).	14/02534/WC CC	Construction of a gas-fired Combined Cycle Gas Turbine (CCGT) electricity generating station following demolition of former cooling towers (without compliance

Decision Issued Date	Application Status	Location	Reference	Description
				with condition 19 of planning application 10/00442/CO N, granted on 04/04/11 substitution of plan showing traffic routes)
6 July 2023	Decided - Application Withdrawn	Thorpe Marsh Ash Fields Marsh Lane Barnby Dun Doncaster DN3 1ET. Off-site, adjacent west of the southern edge (Section D).	23/00022/FUL M	Reclamation through recovery of Pulverised Fuel Ash to facilitate creation of Energy Hub incorporating Battery Energy Storage, Substation and associated Infrastructure, including construction of railhead.

4.3 Unexploded Ordnance Risk

Wartime Land-Use

4.3.1 Based on a review of historical maps (Ref. 11), the Grid Connection Corridor was open land during wartime Britain and was undeveloped, meaning it was possible for bomb strikes to go unobserved.

Post War Development

4.3.2 An analysis of the post war historical map (Ref. 11) does not show obvious, visible changes of the land uses on the Grid Connection Corridor which could indicate potential aerial bombing. However, due to its rural nature, the chances of Unexploded Ordnance (UXO) going unnoticed do exist. An online search has been undertaken for mentions of recent ordnance discovery reported at or around the Grid Connection Corridor. The search did not identify any reported records of ordnance in the Study Area.

Unexploded Bomb Mapping

- 4.3.3 The regional Unexploded Bomb (UXB) mapping published by Zetica (Ref. 13, Annex C) show that the Grid Connection Corridor lies within a zone that experiences a low risk of UXB. It is estimated that the bombing density of the area is 15 bombs or less within 1000 acres. The Zetica maps provide a high-level assessment of regional World War II bombing densities and do not assess the presence of other potential sources of UXO.

Table 4-3: Historical and Planned Development Key Findings

Historical and Planned Development Key Findings

The former Thorpe Marsh Power Station is shown across the southern extent (Section D) of the Grid Connection Corridor in the historical map dated between 1960 and 2003. The power station is no longer shown in the map dated 2010. The planning records indicate that the construction of a gas-fired CCGT electricity generating station following demolition of former cooling towers was decided in 2015.

Carcroft Junction to Stainforth Junction railway line crosses the southern part (Section D) of the Grid Connection Corridor, north of Ash Road, since the earliest available historical maps (mid 1800s). Gowdall and Braithwell railway line crosses Section C east of Thorpe in Balne, in the historical maps dated between 1930 and 1967. The remaining Grid Connection Corridor has been undeveloped land/agricultural fields since the earliest available historical maps, with contamination sources limited to potential application of pesticides and fertilisers for agricultural purposes. Potential contaminative sources identified locally on-site may be associated with former small ponds or pits which may have been filled with a variety of (potentially unlicensed) waste materials.

The land uses surrounding the Grid Connection Corridor (relevant to land contamination) include farmland, with farm buildings and yards where fuel and agricultural materials were/are stored, former good station and railway sidings (20 m west and 90 m west of the Section C, respectively); unspecified ground workings (40 m west of the Section C); an unspecified tank (220 m west of the Section C); railway buildings (20 m west and 120 m west of the Section D); unspecified ground workings (40 m west of the Section D); cuttings (170 m west of the Section D); and an unspecified heap (230 m south of the Section D).

5. Regulated Activities and Statutory Consultation

5.1 Introduction

- 5.1.1 The key relevant features that characterise the Grid Connection Corridor and surrounding area are summarised in this section, along with an indication of the risk to the land quality of the Grid Connection Corridor.
- 5.1.2 Information on groundwater and surface water abstractions is detailed in Paragraphs 3.5.7, 3.5.12 and 3.5.13 and is not repeated here.
- 5.1.3 Generally, any regulated activities within 250 m of the Grid Connection Corridor could, depending upon their nature, represent potential off-site sources of contamination. This section indicates the activities present within 250 m. The extent of this Study Area has been developed using professional judgement on the basis that contamination migration beyond this distance is likely to be minimal. This principle has been applied in assessing similar sites.

5.2 Regulated Processes

- 5.2.1 Table 5-1 summarises information on regulated processes contained in the Groundsure Report (Ref. 11). The Groundsure Report collates data from a variety of sources including the Environment Agency and the BGS.
- 5.2.2 There were no instances of the following data (within 250 m of the Grid Connection Corridor) identified within the information sources reviewed:
- a. Sites determined as Contaminated Land;
 - b. Control of Major Accident Hazards (COMAH);
 - c. Regulated Explosive Sites;
 - d. Hazardous Substance storage/usage;
 - e. Licensed pollutant release (Part A (2)/B);
 - f. Radioactive Substance Authorisations;
 - g. Pollutant release to surface waters (Red List);
 - h. Pollutant release to public sewer;
 - i. List 1 Dangerous Substances;
 - j. List 2 Dangerous Substances;
 - k. Pollution inventory substances; and
 - l. Pollution inventory radioactive waste.
- 5.2.3 The City of Doncaster Council website (Ref. 12) indicates that there are currently (as of January 2024) no entries on their public register of 'contaminated land' within the Study Area) as defined under the Environmental Protection Act 1990, Part 2A (Ref. 4).

Table 5-1: Summary of Regulatory Information

Subject	Groundsure Report Section	Number Present		Details
		On site	0-250 m	
Agency and Hydrological				
Licenced Discharges to controlled water	Section A	NA	3	Three active discharge consents are listed off-site, 150 m west, 160 m east and 230 m west of the Grid Connection Corridor. They relate to sewage discharges of final treated effluent into drains.
	Section B	NA	1	One active discharge consent is listed off-site, 20 m west of the Grid Connection Corridor, at Glebe Farm. The consent relates to sewage discharges of final treated effluent into a tributary of the River Don.
	Section D	2	9	Two revoked discharge consents are listed on-site, and related to trade discharges into an unspecified receiving water and into the Engine Dyke. Nine revoked or surrendered discharge consents are listed adjacent the Grid Connection Corridor and related to sewage discharges of final treated effluent or trade discharges into the Engine Dike.
Pollution Incidents (Environment)	Section A	NA	3	Three pollution incidents to controlled waters are listed off-site, approximately 60 m east

Subject	Groundsure Report Section	Number Present		Details
		On site	0-250 m	
Agency/Natural Resources Wales)				of the Grid Connection Corridor, north of Moss Road. The pollution incidents relate to asbestos and contaminated water and occurred in April 2003. The entries show minor impacts to land and water.
	Section B	NA	1	One pollution incident to controlled waters is listed off-site, approximately 180 m west of the Grid Connection Corridor. The pollution incident relates to general biodegradable materials and wastes and occurred in February 2003. The entry shows minor impacts to land and air.
	Section C	1	NA	One pollution incident is listed on-site and relates to discarded tyres and occurred in March 2003. The entry shows no impacts to land, air and water.
	Section D	2	2	Two pollution incidents are listed on-site, with one relevant to water or land impact. The incident relates to release of oils and fuel and occurred in September 2003. The entry shows minor impact to water. Two pollution incidents are listed off-site, 90 m east of Section D; and 140 m southeast of

Subject	Groundsure Report Section	Number Present		Details
		On site	0-250 m	
				Section D. The pollution incidents relate to discarded waste material occurred in March 2003; and to release of oils and fuels, occurred in August 2008. The entry shows minor impact to land and minor impact to water, respectively.
Current industrial land use				
Historical licenced industrial activities/integrated pollution control (IPC)	Section C	NA	4	One revoked and three superseded IPC are listed off-site, approximately 50 m east of the Grid Connection Corridor, in Marsh Road. The consents relate to gasification and associated processed, operated by Warwick Energy Exploration and Production Ltd.
	Section D	3	NA	One surrendered and two superseded IPC are listed on-site and relate to combustion processes, operated by Rwe Npower Plc at former Thorpe Marsh Power Station.
Licenced industrial activities (Part A(1))	Section D	11	NA	Several (effective) licenced industrial activities are listed on-site and relate to combustion processes, operated by the former Thorpe Marsh Power Station; and waste disposal at the Thorpe Marsh Oil Management Unit operated by

Subject	Groundsure Report Section	Number Present		Details
		On site	0-250 m	
				National Grid Electricity Transmission Plc.

5.3 Licensed Waste Management Facilities

- 5.3.1 An attempt has been made to identify landfilling operations, past and present, that have taken place in the vicinity (within 250 m) of the Grid Connection Corridor.
- 5.3.2 There are no active or recent landfill or historical landfill within 250 m of the Grid Connection Corridor. There are two recent landfills, approximately 320 m west and 390 m south of the southern extent (Section D) of the Grid Connection Corridor. The status of both is indicated as closed.
- 5.3.3 There is one historical waste site and one licenced waste site in the Section D of the Grid Connection Corridor, located at the former Thorpe Marsh Power Station. The historical waste site was a waste composting facility; and the licenced waste site included a factory curtilage. The status of the licenced waste site is indicated as ‘transferred’.
- 5.3.4 There are four waste exemption entries within the Grid Connection Corridor, in Section D, for use of waste in construction.

5.4 Current Industrial Land Use

- 5.4.1 There are no current industrial land use entries on-site, except for three electricity pylons across Section C and D; and tanks and travelling cranes in Section D.
- 5.4.2 There are a few current industrial land uses within 250 m of the Grid Connection Corridor and these are summarised Table 5-2. Any significant inactive listings thought not to be covered by the historical development review in Section 4 are also noted if present and/or identified. There were no instances of current or recent petrol stations and gas pipelines identified within the information sources reviewed. Electricity cables are indicated across Section D.

Table 5-2: Potentially Contaminative Industrial Land Use on and Within 250 m of the Grid Connection Corridor

**Groundsure Location Details
Report section**

Section C	On-Site	a. Electricity pylons.
Section D	On-Site	a. Travelling cranes. b. Tanks. c. Electricity pylons.

Groundsure Location Details Report section

Section A	Off-Site	<ul style="list-style-type: none"> a. Transport, storage and delivery site/distribution and haulage (Brason Transport Ltd) – adjacent west. b. Water pumping station – approximately 130 m east. c. Electricity pylon – approximately 240 m east.
Section B	Off-Site	<ul style="list-style-type: none"> a. Electricity pylon – approximately 30 m east. b. Industrial products (fences, gates and railways) (Orchard Workshop) – approximately 50 m east.
Section C	Off-Site	<ul style="list-style-type: none"> a. Electricity pylons – approximately 90 m, 130 m and 135 m west. b. Farming (hoppers and silos) – approximately 180 m west.
Section D	Off-Site	<ul style="list-style-type: none"> a. Telecommunication Mast – approximately 30 m south. b. Waste Storage, processing and disposal outfall – approximately 10 m southeast. c. Electricity pylons – from 90 m south. d. Settling ponds – approximately 220 m west.

5.5 Environmental Designations

- 5.5.1 The Groundsure Report (Ref. 11) identifies sensitive land uses in the form of Sites of Special Scientific Interest (SSSI), Conserved wetland sites (Ramsar sites), Special Areas of Conservation, Special Protection Areas, National Nature Reserves, Local Nature Reserves, Designated Ancient Woodland, Biosphere Reserves, Forest Parks, Marine Conservation Zones, Green Belt, Possible Special Areas of Conservation, Potential Special Protection Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones, SSSI Impact Risk Zones and SSSI Units.
- 5.5.2 The Grid Connection Corridor lies within Nitrate Vulnerable Zones (NVZ) and within SSSI Impact Risk Zones with several developments requiring consultation. The consultation required does not include solar farms or associated infrastructure.
- 5.5.3 According to the Doncaster Local Plan 2015-2035 (Adopted) Policies Map (Ref. 27) there are no Local Geological Sites on-site and within 250 m of the Grid Connection Corridor.
- 5.5.4 There are no other sensitive land uses within 250 m of the Grid Connection Corridor.

6. Site Reconnaissance

- 6.1.1 An inspection of the Grid Connection Corridor was completed by a suitably qualified and experienced AECOM Engineer on 11 January 2024. The aim of the visit was to identify the range of activities carried out on the Grid Connection Corridor and obvious potential sources of ground contamination.
- 6.1.2 A photographic record of the visit is included as Annex D. Maps showing the site walkover observations and photo locations are appended Figure 1 and Figure 2.
- 6.1.3 The Grid Connection Corridor consists of agricultural fields used for crops or grazing and some areas of dense vegetation. There are a number of access tracks/lanes that run through the Grid Connection Corridor connecting the fields. Several drains were observed on-site. Electrical pylons are located in a few locations at the Grid Connection Corridor and surrounding area. Due to its size, the site walkover took place at several locations spread evenly throughout the Grid Connection Corridor. Access to some parts of the Grid Connection Corridor was restricted due to hedgerows, foliage, and fencing. The most relevant observations are listed as follows:
- a. Photos 25 and 26 (in Annex D) shows the Trumfleet Power Station, including a series of back up diesel generators and electrical transformers. This feature is located 50 m east of the Grid Connection Corridor, south of Engine Dike. Photo 27 (in Annex D) shows two diesel above ground storage tanks (AST) associated with this feature;
 - b. Photo 31 (in Annex D) shows areas where livestock were present to the north of Thorpe in Balne; and
 - c. Photo 39 and 39 (in Annex D) show the area of the former Thorpe Marsh Power Station, with the Existing National Grid Thorpe Marsh Substation in the background.
- 6.1.4 No evidence of contamination was observed during the site reconnaissance.

7. Preliminary Ground Model

7.1.1 Based on the review of published geological and hydrogeological information and a selection of historical borehole records, the ground conditions within the Grid Connection Corridor are considered to comprise the following sequence presented in Table 7-1.

Table 7-1: Preliminary Ground Model

Geology	Description	Thickness	Groundwater
Topsoil	Variable. Described as dark brown loam in BGS borehole SE51SE19 (located east of Trumfleet Lane, in Moss, in the Section A of the Grid Connection Corridor)	0.30 m in BGS borehole SE51SE19.	Not reported
Made Ground	Variable	Made Ground is indicated up to 1.5 m bgl in BGS borehole SE60NW178 (located in Thorpe Bank, in Section D)	Not reported
Superficial deposits (Alluvium, Hemingbrough Glaciolacustrine Formation and Brighton Sand Formation)	Clay with scattered bands of sand	Hemingbrough Glaciolacustrine Formation up to 30 m thick, Brighton Sand Formation up to 6 m thick. Drift deposits are indicated up to 8.2 m thick in BGS borehole SE60NW178 (located in Thorpe Bank, in Section D). Drift deposits are indicated up to 38 m bgl in BGS borehole SE51SE19 (Section A of the	Water level reported at 2 m bgl in BGS borehole SE60NW178. Rest water identified at 2.9 m bgl (BGS borehole SE60NW178).

Geology	Description	Thickness	Groundwater
Bedrock Geology of Sherwood Sandstone Group	Sandstone	Grid Connection Corridor). Variable (over 110 m BGS borehole SE60NW178).	Not reported

8. Initial Conceptual Site Model

8.1 Introduction

8.1.1 This section is aimed at identifying possible risks, if any, arising from substances used or deposited on-site, or from other sources of land contamination. Both past and current potentially contaminative land uses have been considered. It is based on the Grid Connection Corridor, as identified in Section 1. The aim of the initial CSM is to inform future decision making and the design of any future ground investigation, if needed.

8.2 Preliminary Ground Gas Risk Assessment

8.2.1 The CL:AIRE Research Bulletin RB17 A Pragmatic Approach to Ground Gas Risk Assessment 2012 (Ref. 28), describes a method of estimating the potential gas risk of a site based on the site geology and historical use. Table 8-1 presents the considerations included in the RB17 methodology together with the likely status for the Grid Connection Corridor, based upon the data collected and reviewed in the above sections of this PRA.

Table 8-1: Consideration of Potential Ground Gas Risk

Considerations from RB17	Applicable information for the Grid Connection Corridor
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If there is a credible source underlying or in the close vicinity of the site.	Thorpe Marsh Power Station was located in the southern section of the Grid Connection Corridor (Section D). Alluvium and localised infilling are considered a credible source. Infilling of former ponds/pits are limited and not present site-wide.
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If the site been registered as a landfill (not including general Made Ground) or whether there are mine openings nearby.	An industrial waste site (factory curtilage) was located in the southern section of the Grid Connection Corridor (Section D). There are no mine openings nearby.
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If the maximum Made Ground depth is greater than 5 m or there is an average depth greater than 3 m.	Significant thickness of Made Ground across the southern part of the at the Grid Connection Corridor (Section D) is a possibility, based on site development history.
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If the Total Organic Carbon (TOC) in Made Ground exceeds 4% or 6% where the Made Ground is greater than 20 years old.	Unknown.
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Considerations from RB17

Applicable information for the Grid Connection Corridor

Whether radon protective measures are required. None required.

If an off-site source is present, is there a credible pathway to the development site based on the distance, the specific ground conditions and topography, or whether there are potential effects such as rising ground water which would have the potential to force large volumes of gas from the ground in a short period. Credible pathway may be associated with alluvial deposits located off-site.

- 8.2.2 Based on this preliminary gas risk assessment, gas monitoring is likely to be a requirement for the Grid Connection Corridor. This is due to the presence of the former Thorpe Marsh Power Station, the presence of Alluvium and localised infilling of former ponds/pits. By virtue of the development comprising a grid connection corridor, the linkage associated with accumulation could be limited to any service buildings/enclosures.

8.3 Assessment Framework

- 8.3.1 The Grid Connection Corridor, in terms of potential land contamination, will be regulated by the City of Doncaster Council (Ref. 29), taking account of the NPPF 2023 (Ref. 3), with the Environment Agency, Natural England and Historic England acting as potential statutory consultees.
- 8.3.2 Environmental liabilities can arise through provisions contained within statutory legislation including Part 2A of the Environmental Protection Act 1990 (Ref. 4), the Environmental Damage (Prevention and Remediation) (England) Regulations 2015 (Ref. 30), the Water Resources Act 1991 (Ref. 31), the Environmental Permitting (England and Wales) Regulations 2016 and the Water Act 2003 (Ref. 32).
- 8.3.3 Current industry good practice recommends that the determination of health hazards due to land contamination is based on the principle of risk assessment, as outlined in the Statutory Guidance to Part 2A (2012) and LCRM (Ref. 1).
- 8.3.4 The 'suitable for use' approach is adopted for the assessment of land contamination where remedial measures are undertaken if unacceptable risks to human health or the environment are realised considering the use (or proposed use) of the land in question and the environmental setting. The proposed end-use for the Grid Connection Corridor is the installation of the 400 kV Grid Connection Cables between the On-Site Substation and the Existing National Grid Thorpe Marsh Substation. It is anticipated that temporary construction compounds (primarily for the storage of cable) for the Grid Connection Corridor would be positioned in the field immediately to the east of the junction between Trumfleet Lane and Brick Kiln Lane, and in the field northeast of Marsh Road adjacent to Engine Dike. The precise location

and dimensions of these compounds is to be determined and, therefore, for the purpose of assessment a wider area in which it could be located has been considered where relevant. The indicative location of temporary construction compounds is shown of **PEIR Volume II Figure 2-3: Indicative Site Layout Plan**.

- 8.3.5 The risk assessment process for environmental contaminants is based on a source-pathway-receptor analysis. These terms can be defined as follows:
- a. Source: hazardous substance that has the potential to cause adverse impacts.
 - b. Pathway: route whereby a hazardous substance may come into contact with the receptor: examples include ingestion of contaminated soil and leaching of contaminants from soil into watercourses; and
 - c. Receptor: target that may be affected by contamination: examples include human occupants/users of site, water resources (surface waters or groundwater), or structures.
- 8.3.6 For a risk to be present, there must be a relevant/viable contaminant linkage i.e. a mechanism whereby a source impacts on a sensitive receptor via a pathway.
- 8.3.7 The following sections detail the initial CSM which has been developed for the Grid Connection Corridor with a view to assessing the potential risks/liabilities and constraints associated with the Grid Connection Corridor in its current condition prior to any proposed development. Risks associated with the Scheme have also been assessed based on a future land use scenario as a Grid Connection Corridor, including potential sources of contamination, potential receptors and potential contaminant pathways identified during this desk-based assessment.

8.4 Sources of Potential Contamination

On Site – Grid Connection Corridor

- 8.4.1 The potential for contamination has been identified on the Grid Connection Corridor. The most significant source consists in the areas historically occupied by the Thorpe Marsh Power Station (Section D of the Grid Connection Corridor).
- 8.4.2 Sources of potential contaminations also include railway land, associated with the current Carcroft Junction to Stainforth Junction railway line (Section D of the Grid Connection Corridor) and former Gowdall and Braithwell railway line (Section C).
- 8.4.3 Potential sources of contamination (albeit limited) have been also identified locally within the Grid Connection Corridor and consist of historical small ponds/pits, which may have been filled with a variety of (potentially unlicensed) waste materials.
- 8.4.4 Potential contaminants associated with the above sources include metals, semi-metals, asbestos, organic and inorganic compounds. In addition, there is the potential for ground gases such as methane or carbon dioxide and leachate.

- 8.4.5 The Grid Connection Corridor is occupied by agricultural land comprising arable fields. It is considered that although chemicals such as pesticides, herbicides and insecticides may have been used on-site and in its proximity, these chemicals typically have a low residency time in soils, and they degrade rapidly in compliance with the requirements for crops and grazing prior to products being used for human consumption. Therefore, agricultural uses are not considered a potential significant source of contamination.
- 8.4.6 One Pollution Incident to Controlled Waters of Category 3 – Minor Accident identified on the Section D of the Grid Connection Corridor occurred 20 years ago and is therefore not considered of concern.

Off Site – Grid Connection Corridor

- 8.4.7 The following potential sources of off-site contamination have been identified as requiring consideration for the Grid Connection Corridor:
 - a. Farm buildings and yards where fuel and agricultural materials were/are stored located adjacent to the Grid Connection Corridor at various locations.
 - b. former good station and railway sidings (20 m west and 90 m west of the Section C, respectively).
 - c. railway buildings (20 m west of the Section D).
 - d. a transport, storage and delivery site/distribution and haulage (Brason Transport Ltd) (adjacent north of Section A).
 - e. a current electrical substation adjacent south of the Grid Connection Corridor, east of Marsh Lane.
- 8.4.8 The unspecified ground workings (40 m west of the Section C and D) are small scale, hence not considered to be a pertinent off-site source. The unspecified tank (220 m west of Section D) would be also excluded from the assessment, due to the distance from the Grid Connection Corridor. The two recent landfills located 320 m west of 390 m south of the southern extent (Section D) of the Grid Connection Corridor would also not be included in the assessment, due to the distance and the location downgradient from the Grid Connection Corridor. Potential pathways from contaminant migration to the Grid Connection Corridor from these locations are also restricted by the low permeability Hemingbrough Glaciolacustrine Formation and Alluvium, which underlie most of the Grid Connection Corridor.

8.5 Summary of Potential Sources

- 8.5.1 Table 8-2 indicates the potential contaminants that may be associated with the current land use.

Table 8-2: Potential Sources of Contamination

Source Reference	Location	Potential Sources	Associated Contaminants of Potential Concern (CoPC)
S1	On Site	Former Thorpe Marsh	Metals, polyaromatic hydrocarbons (PAH), total petroleum hydrocarbon (TPH), Polychlorinated biphenyls (PCB),

Source Reference	Location	Potential Sources	Associated Contaminants of Potential Concern (CoPC)
		Power Station	inorganic compounds (ammonium salts, boron, hydrazine, sulphide, sulphate, phosphate, chloride), asbestos. Ground gases (such as methane or carbon dioxide) and leachate.
S2	On Site	Current and former railway lines	Metals, TPH, PAH, semi-volatile organic compound (SVOCs), Volatile Organic Compound (VOCs), asbestos and asbestos containing materials (ACMs), sulphate. Glycols – associated with the potential use of antifreeze liquids on the rail tracks. Herbicides – typically associated with running lines. Creosote (includes phenolic compounds) – associated with running lines.
S3	On Site	Historical small ponds/pits, which may have been filled with a variety of (potentially unlicensed) waste materials.	Heavy metals and inorganics (including sulphate, nitrate, phosphate, ammoniacal nitrogen, acidic/alkaline pH), TPH, PAH, SVOCs, VOCs, asbestos and ACMs. Ground gases (such as methane or carbon dioxide) and leachate.
S4	Off Site.	Farm buildings and yards where fuel and agricultural materials were/are stored. Former good station, railway buildings and railway sidings Current distribution	Heavy metals and inorganics (including sulphate, nitrate, phosphate, ammoniacal nitrogen, acidic/alkaline pH), PCB, TPH, PAH, SVOCs, VOCs, asbestos and ACMs. Ground gases (such as methane or carbon dioxide) and leachate.

Source Reference	Location	Potential Sources	Associated Contaminants of Potential Concern (CoPC)
		and haulage. Current Trumfleet Power Station. Electrical substation.	

8.6 Potential Receptors

On-Site Receptors

- 8.6.1 The principal human receptors relevant to the Grid Connection Corridor are considered to be construction and maintenance workers. Exposure to other human receptors such as current and future site users is unlikely to be changed except during the cable run construction, and risks to such users are considered outside of the scope of this assessment.
- 8.6.2 The groundwater receptors include Secondary A Aquifers (Brighton Sand Formation and Alluvium), and a Principal Aquifer (Sherwood Sandstone Group).
- 8.6.3 Surface water receptors include the water courses associated with the Bramwith Drain from Source to River Don water body; Don from Mill Dyke to River Ouse water body; and Ea Beck from the Skell to River Don water body.
- 8.6.4 Property receptors include the proposed cables and associated infrastructures. Exposure to property receptors such as crops and livestock is unlikely to be changed except during the cable run construction, and risks to such receptors are considered outside of the scope of this assessment.
- 8.6.5 There are no sensitive ecological receptors associated with the Grid Connection Corridor.

Off-Site Receptors

- 8.6.6 The principal human receptors off-site are considered to be neighbours in residential/commercial properties adjacent to the Grid Connection Corridor and the general public in the areas adjacent the Grid Connection Corridor. Property receptors (off-site) include residential and commercial buildings.

Summary of Potential Receptors

- 8.6.7 Potential receptors associated with the Grid Connection Corridor are shown on Table 8-3.

Table 8-3: Potential Receptors

Receptor Reference	Receptor	Description
R1	Human Health: Acute ¹	Construction and maintenance workers
R2	Human Health ¹	Adjacent site users during earthworks: neighbours in residential/commercial properties adjacent to the Grid Connection Corridor and general public in the areas adjacent the Grid Connection Corridor.
R3	Water Environment: Aquifers	Secondary A Aquifers (Brighton Sand Formation and Alluvium). Principal Aquifer of the bedrock (Sherwood Sandstone Group).
R4	Water Environment: Surface waters	Water courses associated with the Bramwith Drain from Source to River Don water body; Don from Mill Dyke to River Ouse water body; and Ea Beck from the Skell to River Don water body.
R5	Buildings and Infrastructure.	Future proposed infrastructures (cables)
R6	Buildings and Infrastructure	Proposed structures

8.7 Potential Pathways

On-Site Pathways

- 8.7.1 The human health exposure pathways that are considered viable based on UK guidance (Environment Agency, Contaminated Land Exposure Model (CLEA UK)) (Ref. 33) are listed below:
- a. Direct contact, dermal absorption or ingestion of soil;
 - b. Inhalation of soil particulates derived from soils; and
 - c. Migration of hazardous gases/vapours via permeable strata into confined spaces (asphyxiation/explosion).
- 8.7.2 The evaluation of exposure pathways for controlled waters receptors requires an understanding of geological and hydrogeological pathways beneath the Grid Connection Corridor. The controlled waters pathways considered viable with respect to the grid Connection Corridor are as follows:
- a. Spillage/loss/run off from surface direct to receiving water;

¹ Refers to a considerable exposure to land contamination in a short period of time (for example during construction activities).

- b. Leaching of chemicals and vertical migration via permeable unsaturated strata to groundwater; and
 - c. Lateral migration in groundwater and baseflow into surface waters.
- 8.7.3 The buildings and infrastructure pathways considered viable with respect to the Grid Connection Corridor are as follows:
- a. Direct contact of the proposed cables with contaminated soils (i.e. hydrocarbons) and aggressive ground conditions (pH and sulphate); and
 - b. Migration of hazardous gases/vapours via permeable strata into enclosed spaces and service/utility trenches.

Summary of Potential Pathways

8.7.4 Potential pathways associated with the Grid Connection Corridor are shown in Table 8-4.

Table 8-4: Potential Pathways

Pathway Reference	Receptor	Description
P1	Human Health	Direct Pathway: direct contact, dermal absorption or ingestion of soil.
P2	Human Health	Indirect Pathway: inhalation of soil particulates or vapour derived from soils.
P3	Human Health	Indirect Pathway: migration of hazardous gases/vapours via permeable strata into confined spaces (asphyxiation/explosion)
P4	Water Environment: Groundwater	Indirect Pathway: leaching of chemicals and vertical migration via permeable unsaturated strata to groundwater.
P5	Water Environment: Groundwater	Direct Pathway: spillage/loss/run off from surface direct to receiving water
P6	Water Environment: Surface water/Groundwater	Indirect Pathway: lateral migration in groundwater and baseflow into surface waters
P7	Buildings and Infrastructure: proposed cables	Direct Pathway: direct contact of proposed cables with contaminated soils (i.e. hydrocarbons) and aggressive ground conditions (pH and sulphate).
P8	Buildings and Infrastructure: Structures	Direct Pathway: Migration of hazardous gases/vapours via permeable strata into enclosed spaces and service/utility trenches

9. Environmental Risk Assessment

9.1 Risk Assessment Principles

- 9.1.1 Current industry good practice recommends that the determination of hazards due to land contamination land is based on the principle of risk assessment, as outlined in the Environment Agency guidance LCRM (Ref. 1).
- 9.1.2 For a risk to be present, there must be a viable contaminant linkage (at the current site condition and/or during construction and/or when the Grid Connection Corridor is complete and operational) i.e. a mechanism whereby a source impacts on a sensitive receptor via a pathway.
- 9.1.3 Assessments of risks associated with each of these contaminant linkages are discussed in the following sections. The methodology adopted within this PRA does not intend to reflect the EIA Methodology, as described in Chapter 5: Methodology of the Scoping Report (**PEIR Volume III Appendix 1-1: EIA Scoping Report**).
- 9.1.4 Using criteria based on those presented in Annex 4 of the Environment Agency/NHBC/CIEH R&D Publication 66, ‘Guidance for the Safe Development of Housing on Land Affected by Contamination’ (Ref. 34), the magnitude of the risk associated with potential contamination at the Grid Connection Corridor has been assessed. To do this an estimate is made of:
 - a. The magnitude of the potential consequence (i.e. severity); and
 - b. The magnitude of probability (i.e. likelihood).
- 9.1.5 The severity of the risk is classified according to the criteria in Table 9-1.

9.2 Risk Assessment Framework

Table 9-1: Description of Severity of Risk

Term	Description
Severe	<ul style="list-style-type: none"> a. Highly elevated concentrations likely to result in significant harm to human health. b. Catastrophic damage to crops, buildings or property (e.g. by explosion). c. Equivalent to Environment Agency Category 1 pollution incident including persistent and/or extensive effects of water quality. d. Major damage to aquatic or other ecosystems.
Medium	<ul style="list-style-type: none"> a. Elevated concentrations which could result in significant harm to human health. b. Significant damage to crops, buildings or property (e.g. damage to building rendering it unsafe). c. Equivalent to Environment Agency Category 2 pollution incident including significant effect on water quality. d. Significant damage to aquatic or other ecosystems.

- Mild
 - a. Exposure to human health unlikely to lead to significant harm.
 - b. Minor damage to crops, buildings or property (e.g. surface spalling to concrete).
 - c. Equivalent to Environment Agency Category 3 pollution incident including minimal or short-lived effect on water quality.
 - d. Minor or short-lived damage to aquatic or other ecosystems.

- Minor
 - a. No measurable effect on humans.
 - b. Repairable effects of damage to buildings, structures and services.
 - c. Equivalent to insubstantial pollution Incident with no observed effect on water quality of ecosystems.

9.2.1 The probability of the risk occurring is classified according to the criteria in Table 9-2.

Table 9-2: Likelihood of Risk Occurrence

Likelihood Explanation

High	Contaminant linkage may be present that appears very likely in the short-term and risk is almost certain to occur in the long term, or there is evidence of harm to the receptor.
Likely	Contaminant linkage may be present, and it is probable that the risk will occur over the long term.
Low	Contaminant linkage may be present and there is a possibility of the risk occurring, although there is no certainty that it will do so.
Unlikely	Contaminant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable.

9.2.2 An overall evaluation of the level of risk is gained from a comparison of the severity and probability, as shown in Table 9-3.

Table 9-3: Risk Based on Comparison of Likelihood and Severity

		Severity			
		SEVERE	MEDIUM	MILD	MINOR
Likelihood	HIGH	Very High	High	Moderate	Low
	LIKELY	High	Moderate	Moderate/Low	Low
	LOW	Moderate	Moderate/Low	Low	Very Low
	UNLIKELY	Moderate/Low	Low	Very Low	Very Low

9.3 Preliminary Risk Assessment

9.3.1 A CSM illustrating plausible contaminant linkages has been formulated for the Grid Connection Corridor. The qualitative preliminary risk assessment of the possible linkages of the above sources (S1 to S4), transport pathways (P1 to P8) and receptors (R2 to R7) is provided in the Table 9-4.

- 9.3.2 The level of risk is determined based on the current condition of the Grid Connection Corridor (i.e. the effects of mitigation measures are not included).
- 9.3.3 The preliminary risk assessment undertaken within this section does not consider acute linkages for construction and maintenance workers (R1). It is anticipated that these acute linkages will be managed by appropriate health and safety measures. As construction workers are protected under existing health and safety legislation, any potential effects are considered to be temporary and will be avoided, prevented and reduced through the implementation of standard mitigation measures to be incorporated into a CEMP. Work will be undertaken in accordance with relevant Construction (Design and Management) (CDM) Regulations 2015 (Ref. 35).

9.4 Discussion of Acute Risk to Future Construction Workers and Off-Site Receptors

- 9.4.1 The proposed works will be undertaken in compliance with Construction (Design and Management) (CDM) Regulations 2015 (Ref. 35).
- 9.4.2 Prior to work commencing, a health and safety risk assessment should be undertaken by the appointed principal contractor and developed in accordance with current health and safety regulations. This assessment should cover potential risks to construction staff, permanent site staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures should be implemented during the construction phase. These mitigation measures, defined by IEMA (Ref. 36), are considered to be standard measures that form part of the general environmental management of the Grid Connection Corridor, and will be integrated within the CEMP.
- 9.4.3 The greatest potential for generation of dust will be ground disturbance, handling and exposure during the site preparation and construction phases. Dust generation should be kept to a minimum in accordance with general industry good practice, as outlined in, for example, 'Environmental Good Practice on Site Guide', CIRIA Publication C741 (Ref. 37).
- 9.4.4 The risk to construction workers during the site preparation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at the Grid Connection Corridor. Should gross contamination be identified, this may pose a potential acute risk to construction works. It is likely that the risks to construction workers can be effectively managed through good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also mitigate the degree of potential particulate migration off-site; these will be included within the CEMP.

Table 9-4: Potential Sources, Pathways and Receptors for the Grid Connection Corridor

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
<p>S1: On-site, former Thorpe Marsh Power Station.</p> <p><i>Metals, polyaromatic hydrocarbons (PAH), total petroleum hydrocarbon (TPH), Polychlorinated biphenyls (PCB), inorganic compounds (ammonium salts, boron, hydrazine, sulphide, sulphate, phosphate, chloride), asbestos</i></p> <p><i>Ground gases (such as methane or carbon dioxide) and leachate.</i></p>	<p>P4: Leaching of chemicals and vertical migration via permeable unsaturated strata to shallow groundwater</p> <p>P5: Direct Pathway: spillage/loss/run off from surface direct to receiving water</p>	R3: Aquifers	Medium	Unlikely	Low	<p>The area of the former Thorpe Marsh Power Station and of the current and former railway lines is underlain by the Secondary A Aquifer of the Alluvium over the Principal aquifer of the Sherwood Sandstone Group. Drift deposits of the Alluvium are indicated up to 8.2 m thick in BGS borehole SE60NW178 located in this part of Grid Connection Corridor.</p> <p>The depth of cable installation is dependent upon many factors such as ground conditions and what is encountered on the route (e.g. it may need to go deeper beneath any cables/utilities that are crossed) and is therefore variable. The installation depth is up to 1.4 m and utility surveys would inform final positioning (refer to PEIR Volume I Chapter 2: The Scheme).</p>

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
<p>S2: On-site, current and former railway lines.</p> <p><i>Metals, TPH, PAH, semi-volatile organic compound (SVOCs), Volatile Organic Compound (VOCs), asbestos and asbestos containing materials (ACMs), sulphate. Glycols. Herbicides. Creosote (includes phenolic compounds).</i></p>						<p>The proposed works would therefore be carried out across the low permeability deposits of the Alluvium.</p> <p>Contaminant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable, given the proposed use of the site as a Grid Connection Corridor. The risk of harm to groundwater from leaching of contaminants or from spillage/loss/run off from surface is considered low.</p>
	<p>P6: Lateral migration in groundwater and baseflow into surface waters</p> <p>P5: Direct Pathway: spillage/loss/run off from surface direct to receiving water</p>	<p>R4: Surface waters</p>	<p>Medium</p>	<p>Unlikely</p>	<p>Low</p>	<p>River Don borders the Grid Connection Corridor to the east of former Thorpe Marsh Power Station and to the east of the current railway line.</p> <p>Contaminant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable, given the proposed</p>

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
						use of the site as a Grid Connection Corridor. The risk of harm to surface waters from lateral migration in groundwater and baseflow into surface waters is considered low. The risk of harm from spillage/loss/run off from surface direct to receiving water is also low.
	P7: Direct contact of proposed cables with contaminated soils (i.e. hydrocarbons) and aggressive ground conditions (pH and sulphate).	R5: Buildings and Infrastructure: proposed cables	Minor	Low	Very Low	Contaminant linkage may be present and there is a possibility of the risk occurring, although there is no certainty that it will do so. Potential risk from direct contact with contaminated soils for infrastructure (cables) is considered very low.
	P8: Migration of hazardous gases/vapours via permeable strata into enclosed spaces and service/utility trenches	R6: Buildings and Infrastructure: Structures	Minor	Low	Very low	Risk from ground gas may be present during construction within service/utility trenches and buildings located adjacent the construction area.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
S3: On-site, Made Ground (associated with former pits/ponds). <i>Heavy metals and inorganics (including sulphate, nitrate, phosphate, ammoniacal nitrogen, acidic/alkaline pH), TPH, PAH, SVOCs, VOCs, asbestos and ACMs.</i> <i>Ground gases (such as methane or carbon dioxide) and leachate.</i>	P4: Leaching of chemicals and vertical migration via permeable unsaturated strata to shallow groundwater P5: Direct Pathway: spillage/loss/run off from surface direct to receiving water	R3: Aquifers	Medium	Unlikely	Low	Contaminant hotspot and Made Ground may be associated with the former pit/infilled ponds. Contaminant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable. The risk of harm to groundwater from leaching of contaminants or from spillage/loss/run off from surface is considered low.
	P6: Lateral migration in groundwater and baseflow into surface waters P5: Direct Pathway: spillage/loss/run off from surface direct to receiving water	R4: Surface waters	Medium	Unlikely	Low	Contaminant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable, given the proposed use of the site as a Grid Connection Corridor. The risk of harm to surface waters from lateral migration in groundwater and baseflow into surface waters is considered low. The risk of harm from spillage/loss/run off from surface direct to receiving water is also low.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
	P7: Direct contact of proposed cables with contaminated soils (i.e. hydrocarbons) and aggressive ground conditions (pH and sulphate).	R5: Buildings and Infrastructure: proposed cables	Minor	Low	Very Low	Contaminant linkage may be present and there is a possibility of the risk occurring, although there is no certainty that it will do so. Potential risk from direct contact with contaminated soils for infrastructure (cables) is considered very low.
	P8: Migration of hazardous gases/vapours via permeable strata into enclosed spaces and service/utility trenches	R6: Buildings and Infrastructure: Structures	Minor	Low	Very low	Contaminant linkage may be present and there is a possibility of the risk occurring, although there is no certainty that it will do so. Risk from ground gas may be present during construction within service/utility trenches and buildings located adjacent the construction area. The Scheme will include temporary construction compound in term of structures.

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
<p>S4: Off-site, farm buildings and yards where fuel and agricultural materials were/are stored.</p> <p>Off-site, former good station, railway buildings and railway sidings</p> <p>Off-site, current distribution and haulage.</p> <p>Off-site, current Trumfleet Power Station.</p> <p>Current electrical substation.</p> <p><i>Heavy metals and inorganics (including sulphate, nitrate, phosphate, ammoniacal nitrogen, acidic/alkaline pH), PCB, TPH, PAH,</i></p>	<p>P4: Leaching of chemicals and vertical migration via permeable unsaturated strata to shallow groundwater</p> <p>P5: Direct Pathway: spillage/loss/run off from surface direct to receiving water</p>	R3: Aquifers	Medium	Unlikely	Low	<p>Some areas of potentially contaminated land have been identified adjacent to the Grid Connection Corridor.</p> <p>Contaminant linkage may be present but the circumstances under which harm would occur even in the long-term are improbable. The risk of harm to groundwater from leaching of contaminants or from spillage/loss/run off from surface is considered low.</p>

Source	Pathway	Receptor	Potential Severity	Likelihood of Occurrence	Potential Risk	Justification
<i>SVOCs, VOCs, asbestos and ACMs. Ground gases (such as methane or carbon dioxide) and leachate.</i>						

10. Decommissioning

- 10.1.1 Potential impacts from the decommissioning of the Site are similar in nature to those during construction, as some ground works would be required to remove infrastructure installed. A detailed Decommissioning Environmental Management Plan (DEMP) will be prepared to identify required measures to prevent pollution during this phase of the development, based on the detailed decommissioning plan.
- 10.1.2 As a result, it is considered the decommissioning impacts and effects would mirror those of the construction phase. Standard mitigation measures are expected to be applied during decommissioning.

11. Conclusions

- 11.1.1 The potential risks that have been identified from potential land contamination have been assessed by the PRA as being very low to low.
- 11.1.2 A number of environmental design and management measures will be employed as standard good practice to minimise impacts to both human health and controlled waters during the construction and decommissioning phases. These will be incorporated into the Framework CEMP which will be provided alongside the Environmental Statement (ES) as part of the DCO application.
- 11.1.3 The information collected as part of this PRA suggests that there are no significant constraints with regards to contamination of soil and groundwater that would limit the development of the Grid Connection Corridor.

12. Recommendations

- 12.1.1 It is assumed that information may be required along the Grid Connection Corridor to inform soil disposal and health and safety of construction workers and limited intrusive ground investigation is therefore likely to be required.
- 12.1.2 Limited intrusive ground investigation and Generic Quantitative Risk Assessment (GQRA) is recommended in the selected areas of potential contamination. Figure 3 shows the location of the areas of potential contamination relevant for the Grid Connection Corridor. Where features are off-site, the investigation locations will be on-site but adjacent or around the feature.
- 12.1.3 Areas recommended to be included within the ground investigation related to the Grid Connection Corridor are:
- a. Near the current Carcroft Junction to Stainforth Junction railway (and former railway buildings) (on-site) (but not within the railway land itself);
 - b. Near the former Thorpe Marsh Power Station (on-site);
 - c. Near the former Gowdall and Braithwell railway line (on-site);
 - d. Near Pit Bridge (on-site);
 - e. Near the current Trumfleet Power Station (adjacent east of Section C);
 - f. Near the former good station and railway sidings (adjacent west of Section C); and
 - g. Near the current transport, storage and delivery site/distribution and haulage (adjacent north of Section A).
- 12.1.4 The results of the ground investigation can be used to refine the findings of this PRA, allow for any recommendations for further works, and allow for considering options for appropriate re-use (following CL:AIRE DoW:CoP (Ref. 38), or treatment and disposal of any material to an appropriate facility, prior to construction. The investigation could also be combined with the geotechnical assessment to be more cost effective.
- 12.1.5 The Grid Connection Corridor is within the Nottinghamshire Coal Mining Reporting Area (Ref. 20). It is recommended that a coal mining report from the Coal Authority is commissioned to further assess coal mining issues at the Grid Connection Corridor. There are no DHRAs within the Grid Connection Corridor (Ref. 20). In additions, the Carboniferous Rocks are overlain by significant thicknesses of Sherwood Sandstone Group, overlying mudstone and limestone formations.

13. References

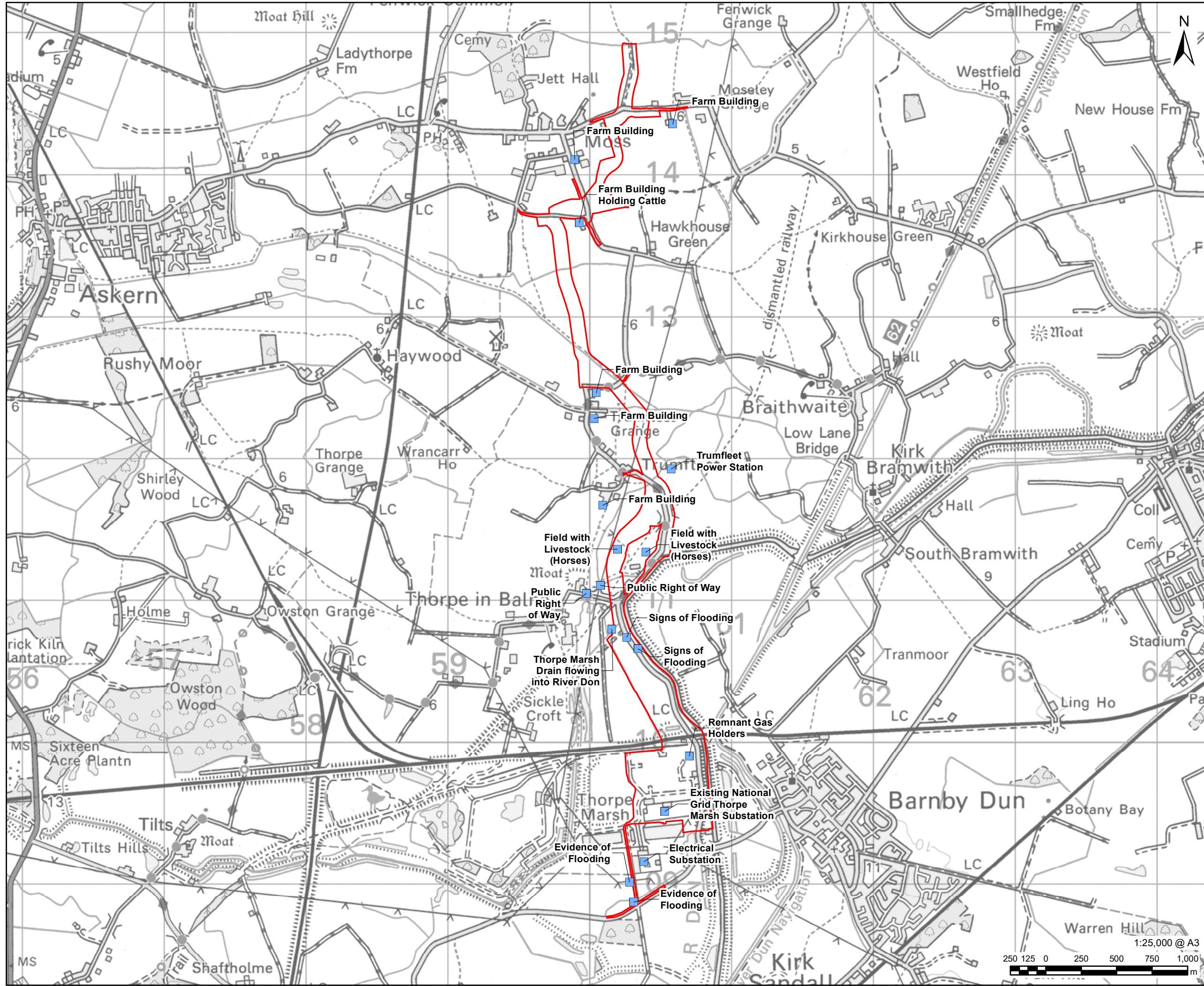
- Ref. 1 Environment Agency (2020). Land Contamination Risk Management (LCRM). Available at: <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm> [Accessed 30 January 2023].
- Ref. 2 His Majesty's (HM) Government (2008). Planning Act 2008. Available at: <https://www.legislation.gov.uk/ukpga/2008/29/contents> [Accessed 30 January 2024].
- Ref. 3 Ministry of Housing, Communities and Local Government (MCHLG) (December 2023). National Planning Policy Framework (NPPF). Available at: <https://www.gov.uk/guidance/national-planning-policy-framework> [Accessed 30 January 2024].
- Ref. 4 Department for Environment, Food and Rural Affairs (Defra) (2012). Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance. Available at: <https://www.legislation.gov.uk/ukpga/1990/43/contents> [Accessed 30 January 2024].
- Ref. 5 HM Government (2012). The Contaminated Land (England) (Amendment) Regulations 2012. Available at: <https://www.legislation.gov.uk/uksi/2012/263/made> [Accessed 30 January 2024].
- Ref. 6 National Planning Statement (NPS) for Overarching National Planning Statement for Energy EN-1 (November 2023). Available at https://assets.publishing.service.gov.uk/media/64252f3b60a35e00120cb158/NPS_EN-1.pdf [Accessed 30 January 2024].
- Ref. 7 National Policy Statement (NPS) for Renewable Energy Infrastructure (EN-3) (November 2023). Available at <https://assets.publishing.service.gov.uk/media/65a7889996a5ec000d731aba/nps-renewable-energy-infrastructure-en3.pdf> [Accessed 13 February 2024].
- Ref. 8 National Planning Statement (NPS) for Electricity Networks EN-5 (November 2023). Available at https://assets.publishing.service.gov.uk/media/64252f852fa848000cec0f53/NPS_EN-5.pdf [Accessed 30 January 2024].
- Ref. 9 British Standard 5930:2015+A1:2020 'Code of Practice for Ground Investigations'.
- Ref. 10 British Standard 10175 2011+A2:2017 'Investigation of Potentially Contaminated Sites – Code of Practice'.
- Ref. 11 Groundsure (2023). Enviro + Geo Insight. Order Numbers: GSIP-2023-13870-14752_A_1; GSIP-2023-13870-14752_B; and GSIP-2023-13870-14752_C. Ordered 31 July 2023.
- Ref. 12 City of Doncaster Council. Contaminated Land Search. Available at <https://www.doncaster.gov.uk/services/environmental/register-of-contaminated-land> [Accessed 30 December 2023].

- Ref. 13 Zetica (n.d.). Zetica Risk Map. Available at: <https://zeticauxo.com/downloads-and-resources/risk-maps/> [Accessed 30 September 2023].
- Ref. 14 Ordnance Survey (OS) (2021). Open Data. Available at: <https://www.ordnancesurvey.co.uk/opendata/viewer/>. [Accessed 30 January 2024].
- Ref. 15 Google Earth Pro v7.3.6.9285. [Accessed 30 September 2023].
- Ref. 16 British Geological Survey (BGS) (2008). Geological Survey of Great Britain (England and Wales). Sheet 71 Selby. Scale 1:50 000. Solid and Drift Editions. Available at <https://largeimages.bgs.ac.uk/iip/mapsportal.html?id=1001554> [Accessed 30 September 2023].
- Ref. 17 BGS (2023). Geindex Onshore online geological mapping viewer. Available at: <https://mapapps2.bgs.ac.uk/geindex/home.html> [Accessed 30 September 2023].
- Ref. 18 Natural England (2010). Agricultural Land Classification Map East Midlands Region (ALC005). Available at: <https://naturalengland.org.uk> [Accessed 30 January 2024].
- Ref. 19 LandIS (n.d.). Soilscales. Available at: <https://www.landis.org.uk/soilscales/> [Accessed 30 January 2024].
- Ref. 20 BGS (2020). The Coal Authority Interactive Map. Available at <https://mapapps2.bgs.ac.uk/coalauthority/home.html> [Accessed 30 September 2023].
- Ref. 21 UK Health Security Agency (UKHSA) and BGS. UK Maps for Radon. Available at <https://www.ukradon.org/information/ukmaps> [Accessed 30 September 2023].
- Ref. 22 Environment Agency (n.d.). Environment Agency. Available at: <https://www.gov.uk/government/organisations/environment-agency> [Accessed 30 September 2023].
- Ref. 23 Defra (n.d.). Multi-Agency Geographic Information for the Countryside (MAGIC) map. Available at: <https://magic.defra.gov.uk/MagicMap.aspx> [Accessed 30 September 2023].
- Ref. 24 Environment Agency (2023). Catchment Data Explorer Tool. Available at: <https://environment.data.gov.uk/catchment-planning/> , <https://environment.data.gov.uk/catchment-planning/WaterBody/GB104027064260>, <https://environment.data.gov.uk/catchment-planning/WaterBody/GB104027064243> [Accessed 30 September 2023].
- Ref. 25 Environment Agency (2023). Flood map for planning. Available at: <https://check-long-term-flood-risk.service.gov.uk/map?easting=460833&northing=416324&map=SurfaceWater> [Accessed 30 September 2023].
- Ref. 26 City of Doncaster Council (2023) Planning Application Search. Available at: <https://www.doncaster.gov.uk/services/planning/planning-applications-online-public-access> [Accessed 30 September 2023].

- Ref. 27 City of Doncaster Council (2021). Doncaster Local Plan 2015-2035 (Adopted) Policies Map. Available at <https://maps.doncaster.gov.uk/portal/apps/webappviewer/index.html?id=c8073f15e63849d6a28a509e1eec6c76> [Accessed 30 September 2023].
- Ref. 28 CL:AIRE (2012). Research Bulletin RB17. A Pragmatic Approach to Ground Gas Risk Assessment.
- Ref. 29 City of Doncaster Council (2023). Public Access. Available at <https://www.doncaster.gov.uk/> [Accessed 30 September 2023].
- Ref. 30 HM Government (2015). Environmental Damage (Prevention and Remediation) Regulations 2015. Available at: <https://www.legislation.gov.uk/ukxi/2015/810/contents> [Accessed 30 January 2024].
- Ref. 31 HM Government (1991). The Water Resources Act 1991. Available at: <https://www.legislation.gov.uk/ukpga/1991/57/contents> [Accessed 30 January 2024].
- Ref. 32 HM Government (2003). The Water Act 2003. Available at: <https://www.legislation.gov.uk/ukpga/2003/37#:~:text=An%20Act%20to%20amend%20the,for%20Water%2C%20and%20for%20the> [Accessed 30 January 2024].
- Ref. 33 Environment Agency (2009). Updated technical Background to the CLEA model; Science Report: SC050021/SR3 (Contaminated land exposure assessment (CLEA) spreadsheet based tool). Available at: <https://assets.publishing.service.gov.uk/media/5a7ce9eae5274a724f0be48b/scho0508bnqw-e-e.pdf> [Accessed 30 January 2024].
- Ref. 34 Environment Agency, NHBC, Chartered Institute of Environmental Health (2008). Guidance for the Safe Development of Housing on Land Affected by contamination. R&D Publication 66: 2008. Available at: <https://www.middevon.gov.uk/media/114549/volume-1-guidance-for-the-safe-development-of-housing-on-land-affected-by-contamination.pdf> [Accessed 30 January 2024].
- Ref. 35 HM Government (2015). The Construction (Design and Management) Regulations 2015. Available at: <https://www.legislation.gov.uk/ukxi/2015/51/contents/made> [Accessed 30 January 2024].
- Ref. 36 Institute of Environmental Management and Assessment (IEMA) (2016). Environmental Impact Assessment Guide to Delivering Quality Development. Available at: <https://www.iema.net/download-document/328273> [Accessed 30 January 2024].
- Ref. 37 CIRIA (2015). PUB C741 Environmental good practice on site guide. Fourth edition.
- Ref. 38 CL:AIRE (March 2011) Definition of Waste: Development Industry Code of Practice (DoW:CoP). Available at: <https://www.claire.co.uk/projects-and-initiatives/dow-cop/28-framework-and-guidance/111-dow-cop-main-document> [Accessed 30 September 2023].
- Ref. 39 Department of the Environment Industry Profile. Power Stations (Excluding Nuclear Power Station). Available at:

<https://webarchive.nationalarchives.gov.uk/ukgwa/20140328084622/http://publications.environment-agency.gov.uk/pdf/SCHO0195BJKY-e-e.pdf>.
[Accessed 1 February 2023].

Figures



PROJECT
Fenwick Solar Farm

CLIENT
Fenwick Solar Project Limited

CONSULTANT
AECOM Limited
Midpoint,
Alencon Link
Basingstoke, RG21 7PP
www.aecom.com

LEGEND

- Grid Connection Corridor
- Site Walkover Observation

NOTES
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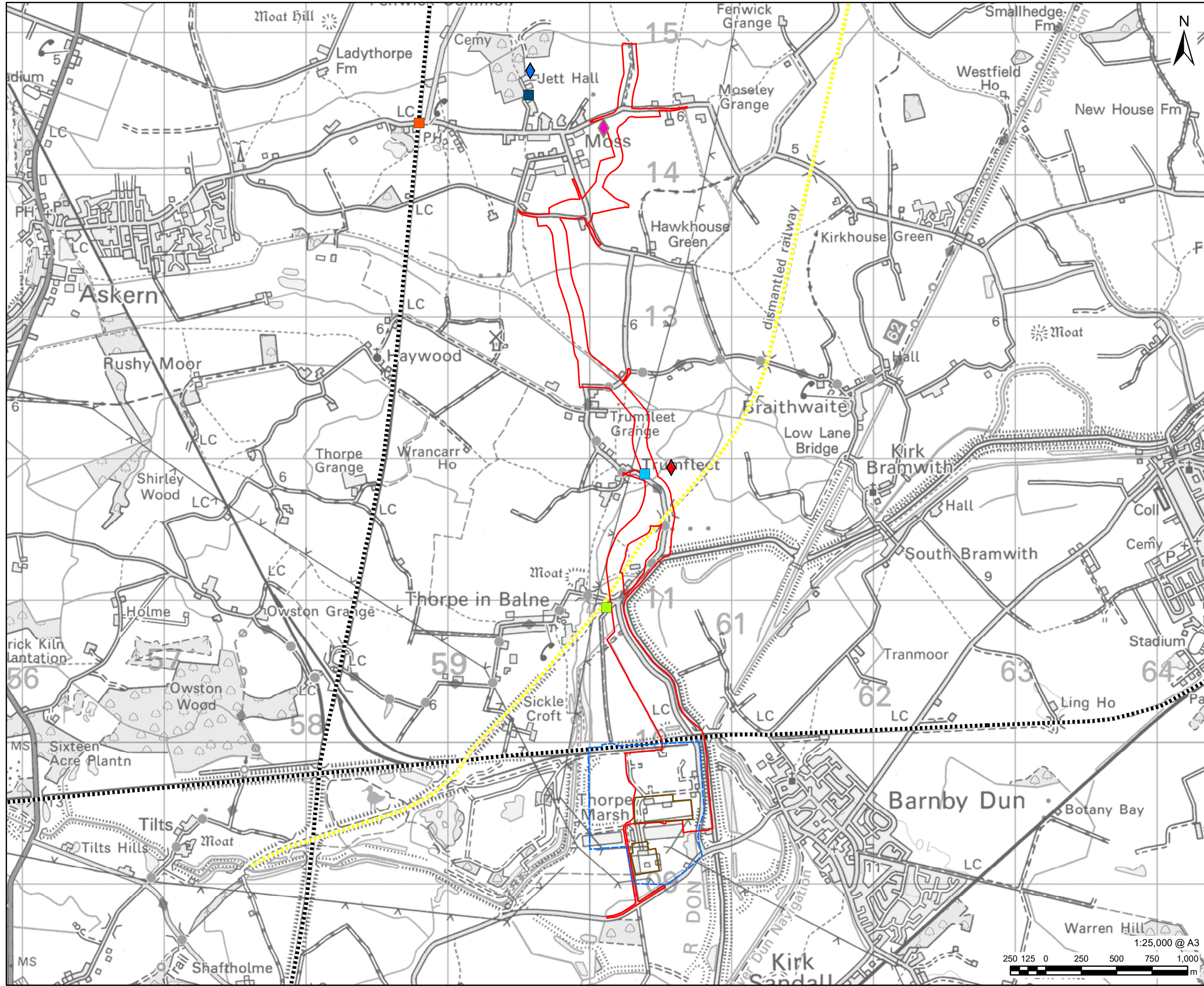
ISSUE PURPOSE
Phase 1 PRA - Grid Connection Corridor

PROJECT NUMBER
60698207

FIGURE TITLE
Grid Connection Corridor - Site Walkover Observations

FIGURE NUMBER
Figure 2

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LEGEND

- Grid Connection Corridor
- Potentially Contaminative Source**
- ◆ Current Shooting Range
- ◆ Current Transport, Storage and Delivery Site
- ◆ Current Trumfleet Power Station
- Former Pit (Pit Bridge)
- Former Good Station and Railway Sidings
- Former Train Station
- Unspecified Tanks
- Current Railway Line
- Former Railway Line
- Current Electrical Substation
- Former Power Station

NOTES

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ISSUE PURPOSE

Phase 1 PRA - Grid Connection Corridor

PROJECT NUMBER

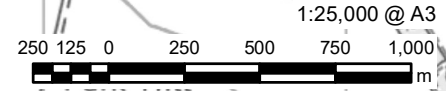
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FIGURE TITLE

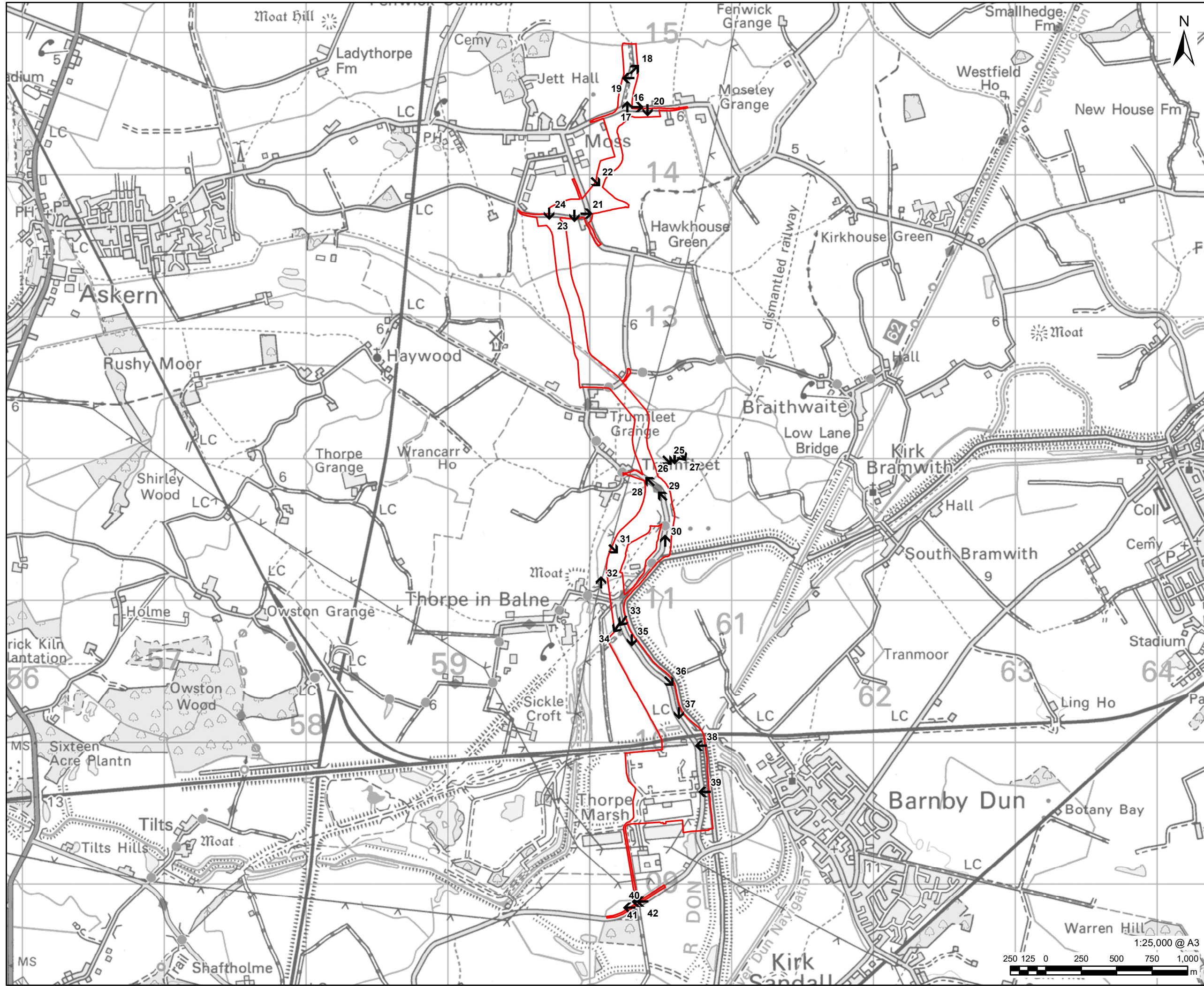
Grid Connection Corridor - Potentially Contaminated Sources

FIGURE NUMBER

Figure 3



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LEGEND
▬ Grid Connection Corridor
 ↑ Site Walkover Photograph Location

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ISSUE PURPOSE
Phase 1 PRA - Grid Connection Corridor

PROJECT NUMBER
60698207

FIGURE TITLE
Grid Connection Corridor - Site Walkover Photographs

FIGURE NUMBER
Figure 1

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Annex A Selected Groundsure Report Extracts

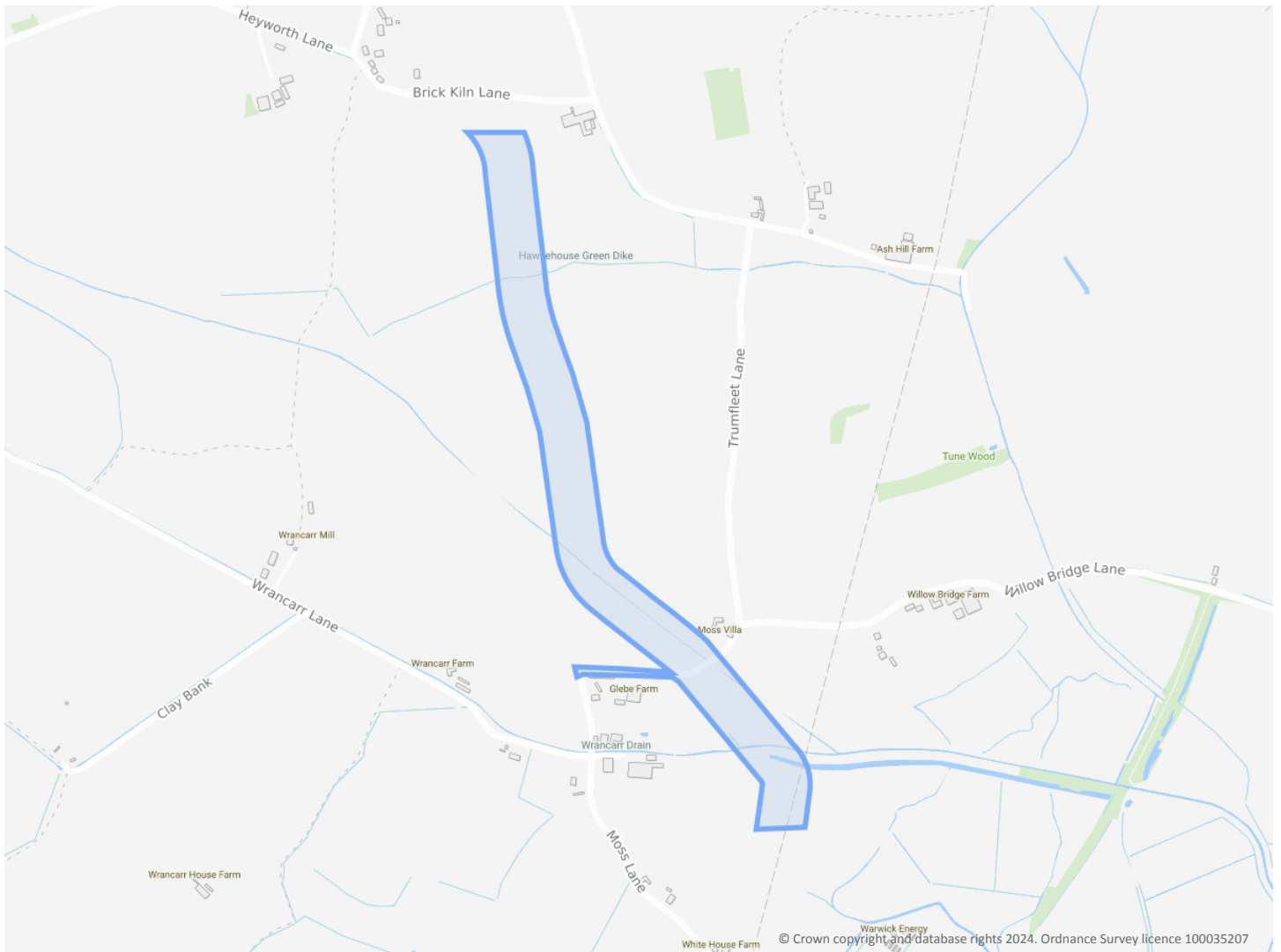
Fenwick

Order Details

Date: 12/01/2024
Your ref: Fenwick
Our Ref: GSIP-2024-14447-16721_B

Site Details

Location: 460003 412882
Area: 16.75 ha
Authority: [Doncaster Metropolitan Borough Council](#) ↗



[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

N/A: >10ha

groundsure.com/insightuserguide ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	0	0	0	4	-
15	1.2	Historical tanks	0	0	0	0	-
15	1.3	Historical energy features	0	0	0	0	-
15	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
16	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
17 >	2.1 >	Historical industrial land uses >	0	0	0	7	-
18	2.2	Historical tanks	0	0	0	0	-
18	2.3	Historical energy features	0	0	0	0	-
18	2.4	Historical petrol stations	0	0	0	0	-
19	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
20	3.1	Active or recent landfill	0	0	0	0	-
20	3.2	Historical landfill (BGS records)	0	0	0	0	-
21	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
21	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
21	3.5	Historical waste sites	0	0	0	0	-
21	3.6	Licensed waste sites	0	0	0	0	-
21 >	3.7 >	Waste exemptions >	0	0	15	72	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
30 >	4.1 >	Recent industrial land uses >	0	2	1	-	-
31	4.2	Current or recent petrol stations	0	0	0	0	-
31	4.3	Electricity cables	0	0	0	0	-
31	4.4	Gas pipelines	0	0	0	0	-
31	4.5	Sites determined as Contaminated Land	0	0	0	0	-



31	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
32	4.7	Regulated explosive sites	0	0	0	0	-
32	4.8	Hazardous substance storage/usage	0	0	0	0	-
32 >	4.9 >	<u>Historical licensed industrial activities (IPC) ></u>	0	0	0	4	-
33	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
33	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
33	4.12	Radioactive Substance Authorisations	0	0	0	0	-
33 >	4.13 >	<u>Licensed Discharges to controlled waters ></u>	0	1	0	2	-
34	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
34	4.15	Pollutant release to public sewer	0	0	0	0	-
35	4.16	List 1 Dangerous Substances	0	0	0	0	-
35	4.17	List 2 Dangerous Substances	0	0	0	0	-
35 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	0	0	1	0	-
35	4.19	Pollution inventory substances	0	0	0	0	-
36	4.20	Pollution inventory waste transfers	0	0	0	0	-
36	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
37 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
39 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
41 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
42	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
43	5.5	Groundwater vulnerability- local information	None (within 0m)				
44 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	1
45 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	1	20
50	5.8	Potable abstractions	0	0	0	0	0
50	5.9	Source Protection Zones	0	0	0	0	-
50	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
51 >	6.1 >	<u>Water Network (OS MasterMap) ></u>	11	0	16	-	-



54 >	6.2 >	Surface water features >	1	0	16	-	-
54 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
54 >	6.4 >	WFD Surface water bodies >	1	0	0	-	-
55 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
56 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
57 >	7.2 >	Historical Flood Events >	7	0	0	-	-
58	7.3	Flood Defences	0	0	0	-	-
58 >	7.4 >	Areas Benefiting from Flood Defences >	2	0	0	-	-
58	7.5	Flood Storage Areas	0	0	0	-	-
59 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
60 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
61 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
63 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
64	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
65	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
65	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
65	10.4	Special Protection Areas (SPA)	0	0	0	0	0
65	10.5	National Nature Reserves (NNR)	0	0	0	0	0
66	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
66	10.7	Designated Ancient Woodland	0	0	0	0	0
66	10.8	Biosphere Reserves	0	0	0	0	0
66	10.9	Forest Parks	0	0	0	0	0
67	10.10	Marine Conservation Zones	0	0	0	0	0
67 >	10.11 >	Green Belt >	0	0	0	0	1
67	10.12	Proposed Ramsar sites	0	0	0	0	0



67	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
68	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
68 >	10.15 >	Nitrate Sensitive Areas >	0	0	0	0	1
68 >	10.16 >	Nitrate Vulnerable Zones >	1	0	1	0	3
70 >	10.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
71	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
72	11.1	World Heritage Sites	0	0	0	-	-
73	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
73	11.3	National Parks	0	0	0	-	-
73 >	11.4 >	Listed Buildings >	0	2	0	-	-
74	11.5	Conservation Areas	0	0	0	-	-
74	11.6	Scheduled Ancient Monuments	0	0	0	-	-
74	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
75 >	12.1 >	Agricultural Land Classification >	Grade 3 (within 250m)				
76	12.2	Open Access Land	0	0	0	-	-
76	12.3	Tree Felling Licences	0	0	0	-	-
76	12.4	Environmental Stewardship Schemes	0	0	0	-	-
77 >	12.5 >	Countryside Stewardship Schemes >	1	0	1	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
78 >	13.1 >	Priority Habitat Inventory >	1	0	7	-	-
79	13.2	Habitat Networks	0	0	0	-	-
79	13.3	Open Mosaic Habitat	0	0	0	-	-
79	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
80 >	14.1 >	10k Availability >	Identified (within 500m)				
81	14.2	Artificial and made ground (10k)	0	0	0	0	-
82 >	14.3 >	Superficial geology (10k) >	3	0	0	0	-

83	14.4	Landslip (10k)	0	0	0	0	-
84 >	14.5 >	Bedrock geology (10k) >	2	0	4	0	-
85 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	4	1	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
86 >	15.1 >	50k Availability >	Identified (within 500m)				
87	15.2	Artificial and made ground (50k)	0	0	0	0	-
87	15.3	Artificial ground permeability (50k)	0	0	-	-	-
88 >	15.4 >	Superficial geology (50k) >	3	0	0	1	-
89 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
89	15.6	Landslip (50k)	0	0	0	0	-
89	15.7	Landslip permeability (50k)	None (within 50m)				
90 >	15.8 >	Bedrock geology (50k) >	2	0	0	0	-
91 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
91 >	15.10 >	Bedrock faults and other linear features (50k) >	0	1	2	1	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
92 >	16.1 >	BGS Boreholes >	0	1	0	-	-
Page	Section	Natural ground subsidence >					
93 >	17.1 >	Shrink swell clays >	Low (within 50m)				
94 >	17.2 >	Running sands >	Low (within 50m)				
96 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
97 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
98 >	17.5 >	Landslides >	Very low (within 50m)				
99 >	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
101 >	18.1 >	BritPits >	0	0	0	1	-
102	18.2	Surface ground workings	0	0	0	-	-
102	18.3	Underground workings	0	0	0	0	0
102	18.4	Underground mining extents	0	0	0	0	-
102	18.5	Historical Mineral Planning Areas	0	0	0	0	-

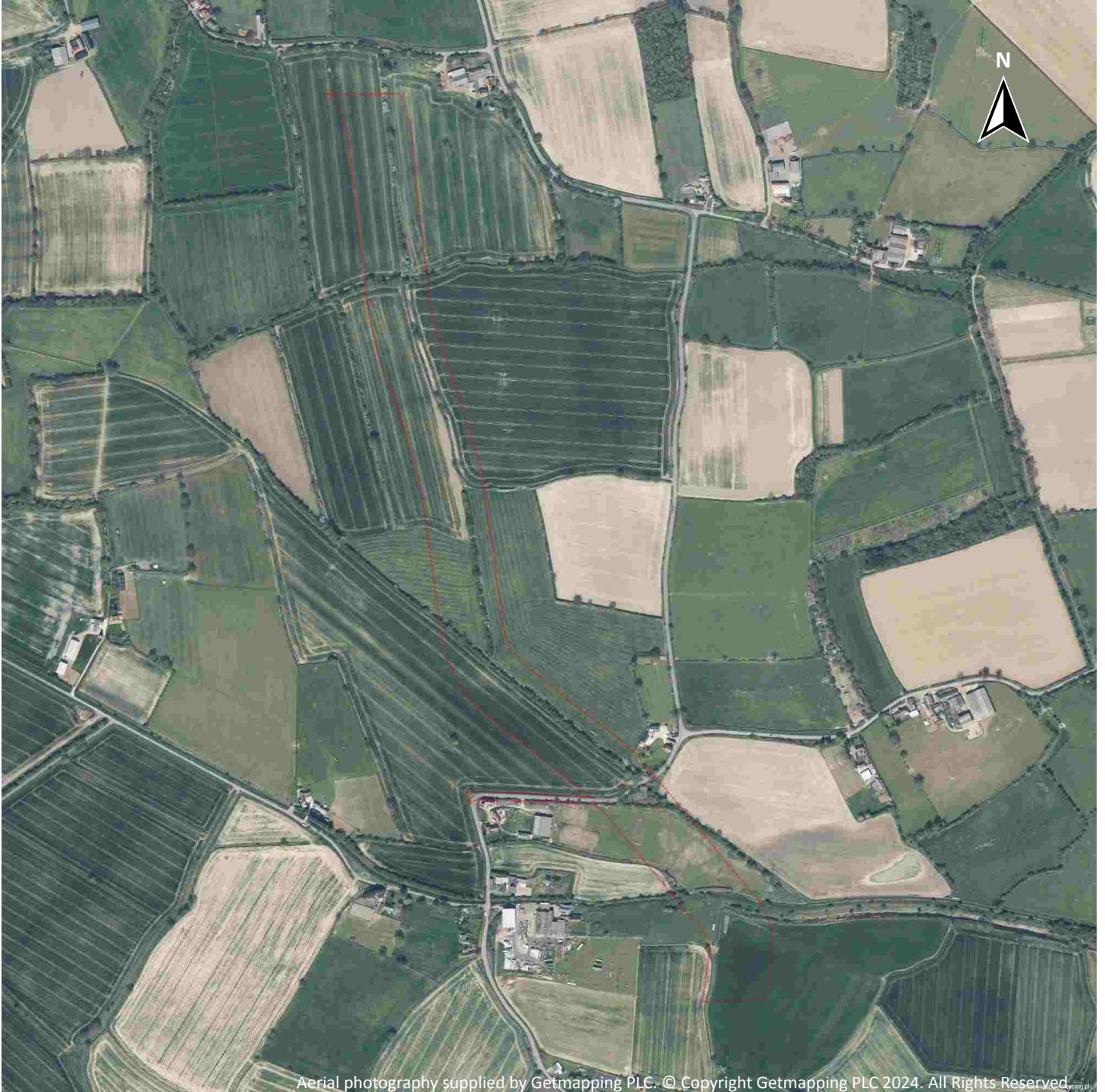


102	18.6	Non-coal mining	0	0	0	0	0
103	18.7	JPB mining areas	None (within 0m)				
103	18.8	The Coal Authority non-coal mining	0	0	0	0	-
103	18.9	Researched mining	0	0	0	0	-
103	18.10	Mining record office plans	0	0	0	0	-
104	18.11	BGS mine plans	0	0	0	0	-
104 >	18.12 >	Coal mining >	Identified (within 0m)				
104	18.13	Brine areas	None (within 0m)				
104	18.14	Gypsum areas	None (within 0m)				
104	18.15	Tin mining	None (within 0m)				
105	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
106	19.1	Natural cavities	0	0	0	0	-
106	19.2	Mining cavities	0	0	0	0	0
106	19.3	Reported recent incidents	0	0	0	0	-
106	19.4	Historical incidents	0	0	0	0	-
107	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
108 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
110 >	21.1 >	BGS Estimated Background Soil Chemistry >	10	7	-	-	-
111	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
111	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
112	22.1	Underground railways (London)	0	0	0	-	-
112	22.2	Underground railways (Non-London)	0	0	0	-	-
112	22.3	Railway tunnels	0	0	0	-	-
112	22.4	Historical railway and tunnel features	0	0	0	-	-
112	22.5	Royal Mail tunnels	0	0	0	-	-



113	22.6	Historical railways	0	0	0	-	-
113	22.7	Railways	0	0	0	-	-
113	22.8	Crossrail 1	0	0	0	0	-
113	22.9	Crossrail 2	0	0	0	0	-
113	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 19/04/2021

Site Area: 16.75ha



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info@groundsure.com

01273 257 755

Date: 12 January 2024

Recent site history - 2020 aerial photograph



Capture Date: 24/06/2020

Site Area: 16.75ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024

Recent site history - 2017 aerial photograph



Capture Date: 25/05/2017

Site Area: 16.75ha



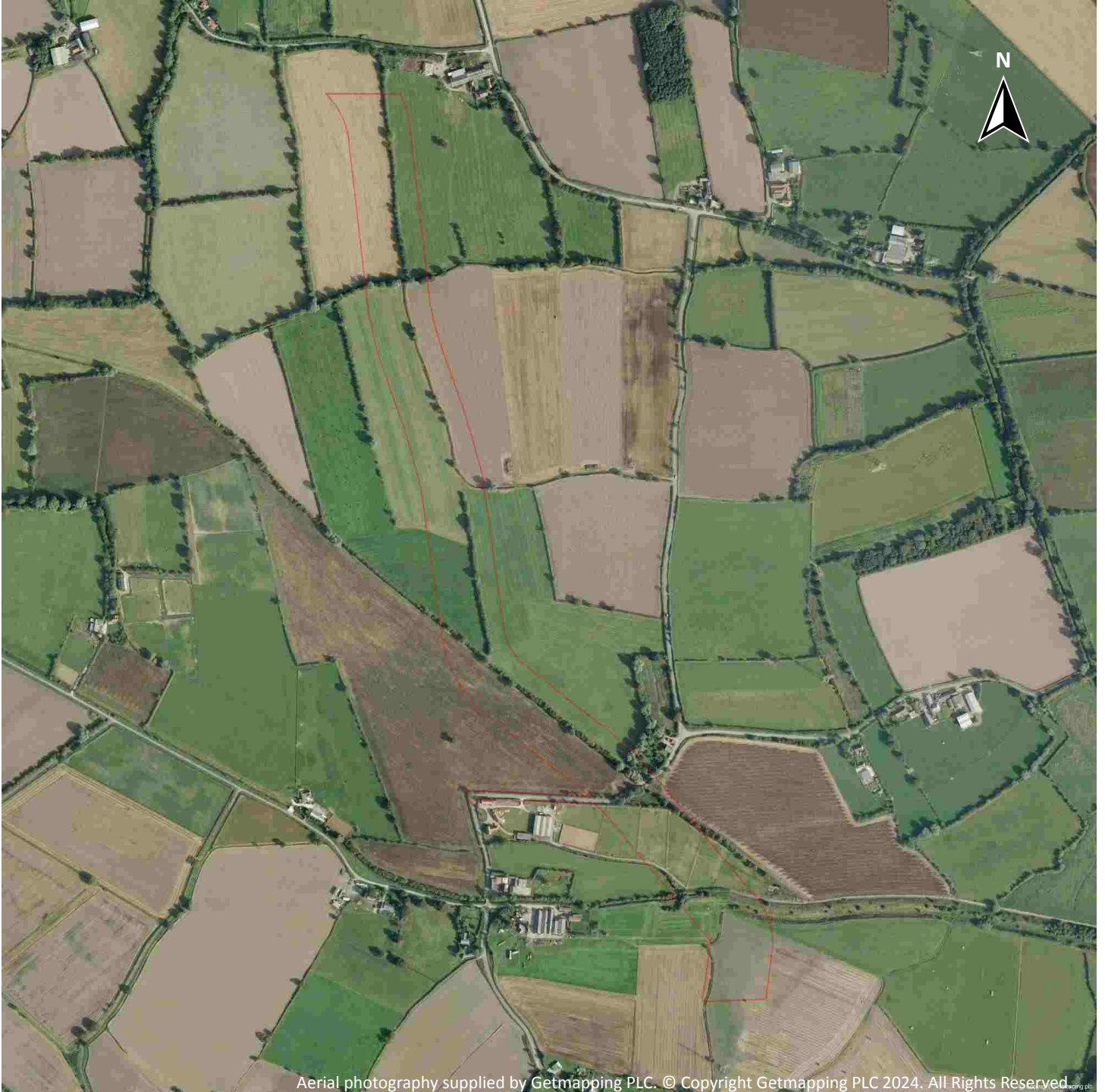
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01273 257 755

Date: 12 January 2024

Recent site history - 2009 aerial photograph



Capture Date: 11/09/2009

Site Area: 16.75ha



Contact us with any questions at:

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01273 257 755

Date: 12 January 2024

Recent site history - 1999 aerial photograph



Capture Date: 03/05/1999

Site Area: 16.75ha



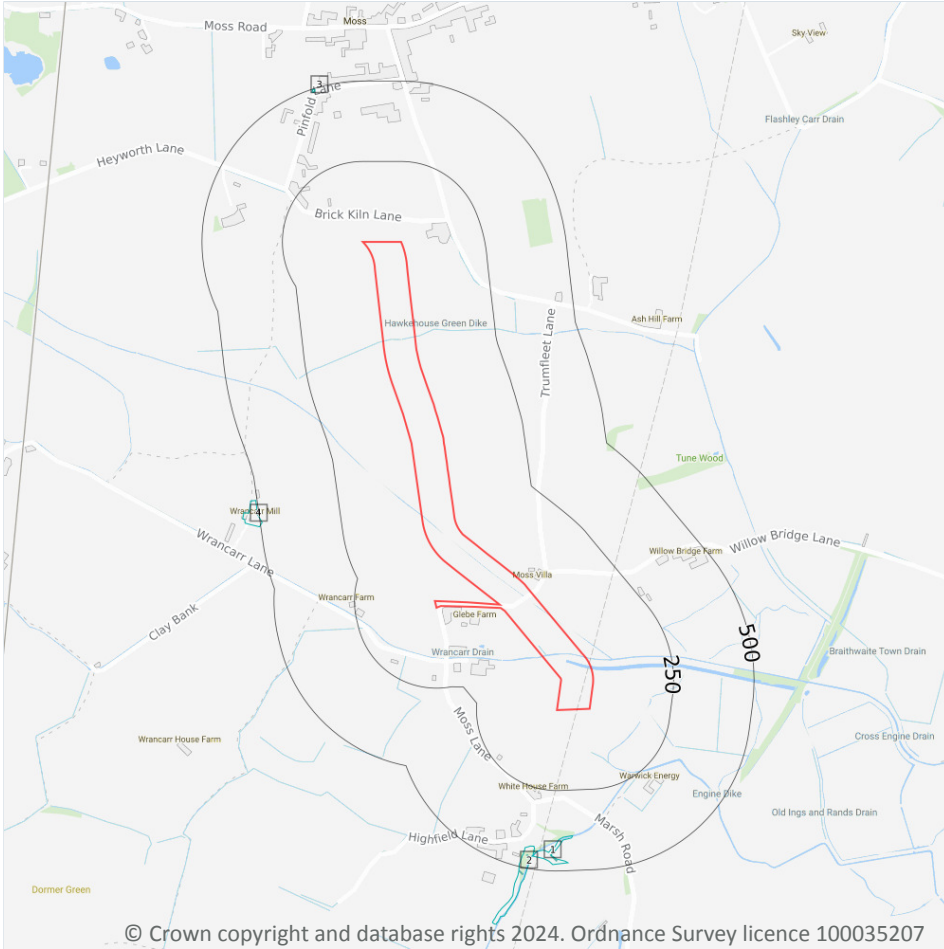
Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

1.1 Historical industrial land uses

Records within 500m **4**

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
1	392m S	Unspecified Ground Workings	1904	1414550

ID	Location	Land use	Dates present	Group ID
2	429m S	Unspecified Pit	1904 - 1948	1488834
3	489m N	Smithy	1904	1457368
4	494m W	Unspecified Mill	1967	1545040

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

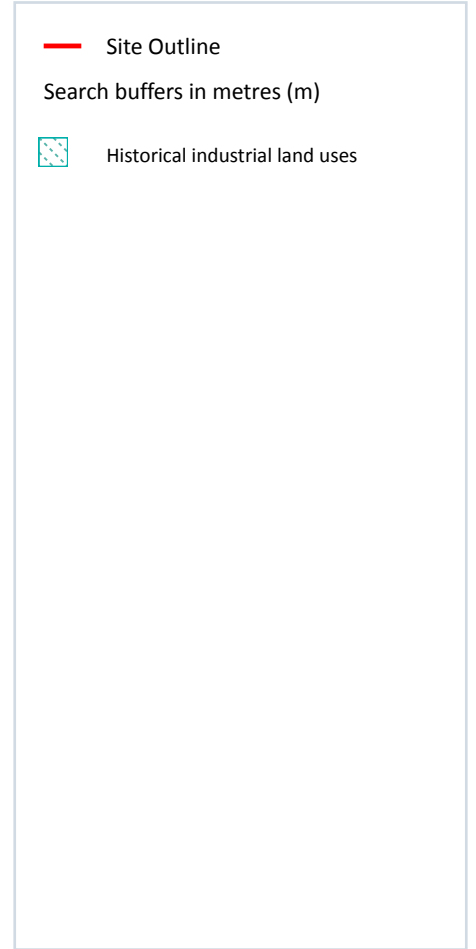
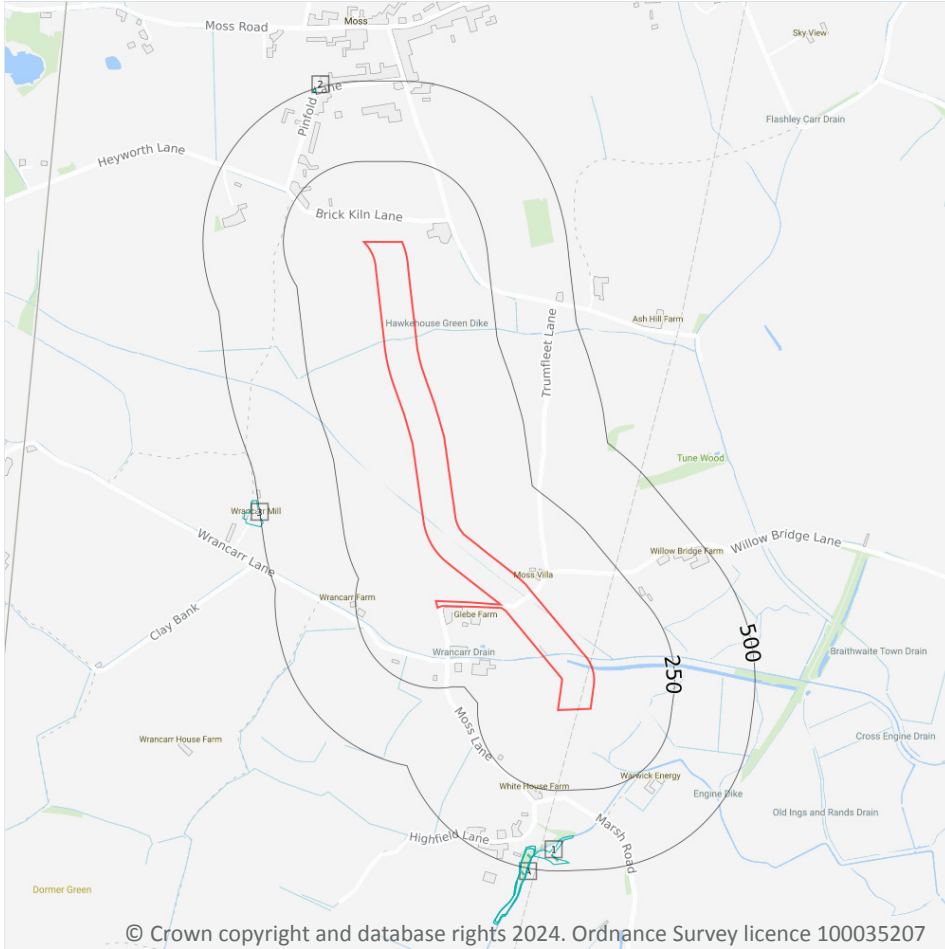
0

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



2.1 Historical industrial land uses

Records within 500m

7

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 17](#) >

ID	Location	Land Use	Date	Group ID
1	392m S	Unspecified Ground Workings	1904	1414550
A	429m S	Unspecified Pit	1948	1488834
A	429m S	Unspecified Pit	1904	1488834

ID	Location	Land Use	Date	Group ID
A	438m S	Unspecified Pit	1933	1488834
A	438m S	Unspecified Pit	1933	1488834
2	489m N	Smithy	1904	1457368
3	494m W	Unspecified Mill	1967	1545040

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

0

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'.

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

0

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'.

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

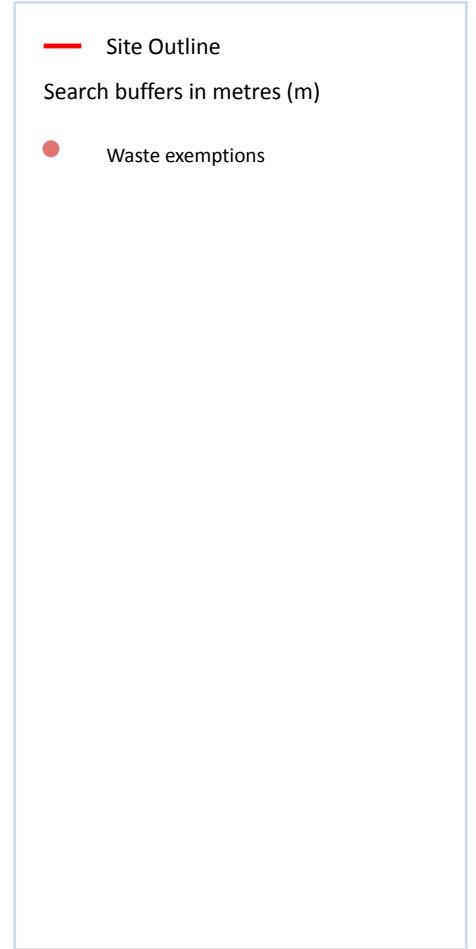
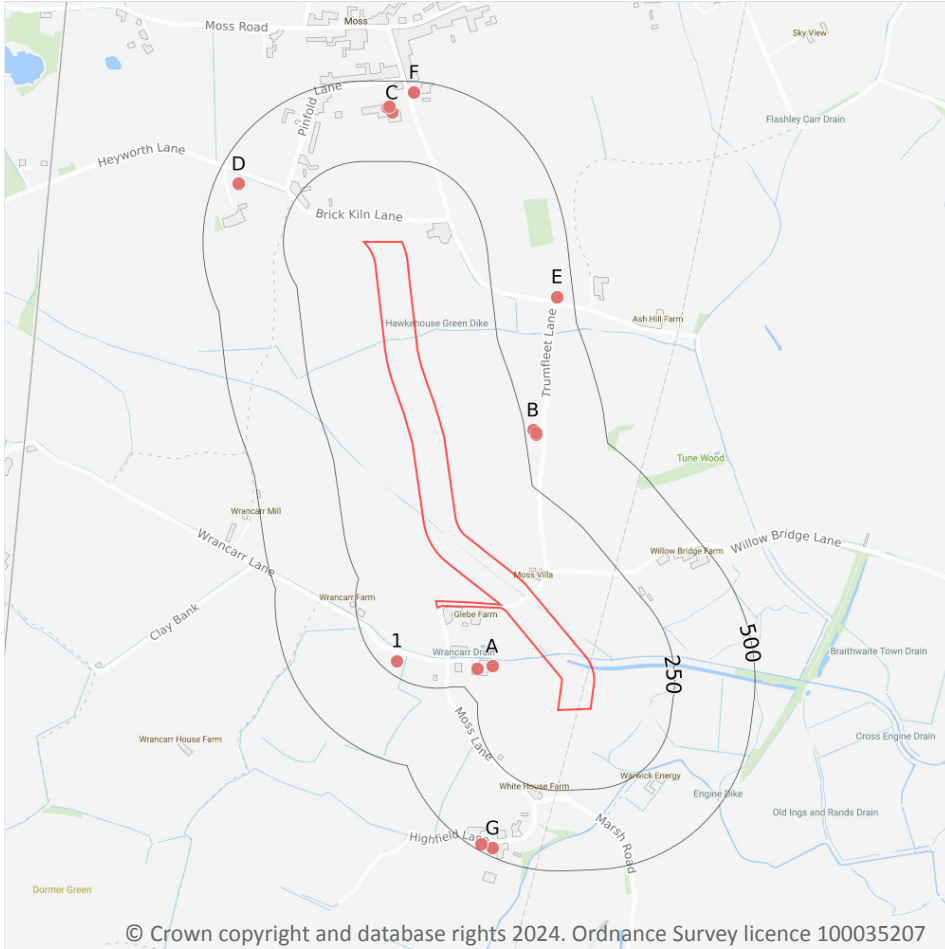
0

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'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

0

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

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

3.5 Historical waste sites

Records within 500m

0

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

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

3.6 Licensed waste sites

Records within 500m

0

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

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

3.7 Waste exemptions

Records within 500m

87

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 20 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	144m S	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX340724	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
A	144m S	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX340724	Storing waste exemption	On a farm	Storage of waste in a secure place
A	144m S	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX340724	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	144m S	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX340724	Disposing of waste exemption	On a farm	Burning waste in the open
A	144m S	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX216711	Storing waste exemption	On a Farm	Storage of waste in a secure place
A	144m S	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX216711	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
A	144m S	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX069772	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	144m S	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX069772	Storing waste exemption	On a farm	Storage of waste in a secure place
A	144m S	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX216711	Disposing of waste exemption	On a Farm	Burning waste in the open
A	144m S	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX216711	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
A	144m S	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX069772	Disposing of waste exemption	On a farm	Burning waste in the open
A	144m S	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX069772	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	184m S	Trumfleet Grange Trumfleet Lane DONCASTER South Yorkshire DN6 0DW	EPR/AH0776Q F/A002	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
A	184m S	Trumfleet Grange Trumfleet Lane DONCASTER South Yorkshire DN6 0DW	EPR/AH0776Q F/A002	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open



ID	Location	Site	Reference	Category	Sub-Category	Description
1	209m S	OAKHURST, WRANCARR LANE, MOSS, DONCASTER, DN6 0DP	WEX056776	Using waste exemption	On a farm	Use of waste in construction
B	275m NE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX141578	Storing waste exemption	On a farm	Storage of sludge
B	283m NE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX158305	Storing waste exemption	On a Farm	Storage of sludge
B	283m NE	-	WEX256644	Storing waste exemption	On a farm	Storage of sludge
C	399m N	FIR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX326038	Disposing of waste exemption	On a farm	Burning waste in the open
C	399m N	FIR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX199915	Disposing of waste exemption	On a Farm	Burning waste in the open
C	399m N	FIR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX048476	Disposing of waste exemption	On a farm	Burning waste in the open
C	416m N	FIR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX352554	Disposing of waste exemption	On a farm	Burning waste in the open
C	417m N	Fir Tree Farm Trumfleet Lane DONCASTER South Yorkshire DN6 0EB	EPR/ZF0331M X/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
C	417m N	Fir Tree Farm Trumfleet Lane DONCASTER South Yorkshire DN6 0EB	EPR/ZF0331M X/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in secure containers
C	417m N	Fir Tree Farm Trumfleet Lane DONCASTER South Yorkshire DN6 0EB	EPR/ZF0331M X/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	417m N	Fir Tree Farm Trumfleet Lane DONCASTER South Yorkshire DN6 0EB	EPR/ZF0331M X/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
D	428m NW	Heyworth Lane Farm Pinfold Lane DONCASTER South Yorkshire DN6 0ED	EPR/QF0739CF /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
D	428m NW	Heyworth Lane Farm Pinfold Lane DONCASTER South Yorkshire DN6 0ED	EPR/QF0739CF /A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
D	428m NW	Heyworth Lane Farm Pinfold Lane DONCASTER South Yorkshire DN6 0ED	EPR/QF0739CF /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
D	430m NW	HEYWORTH LANE FARM, PINFOLD LANE, MOSS, DONCASTER, DN6 0ED	WEX210823	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
D	430m NW	HEYWORTH LANE FARM, PINFOLD LANE, MOSS, DONCASTER, DN6 0ED	WEX062561	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	430m NW	HEYWORTH LANE FARM, PINFOLD LANE, MOSS, DONCASTER, DN6 0ED	WEX210823	Disposing of waste exemption	On a Farm	Burning waste in the open
D	430m NW	HEYWORTH LANE FARM, PINFOLD LANE, MOSS, DONCASTER, DN6 0ED	WEX062561	Disposing of waste exemption	On a farm	Burning waste in the open
E	449m NE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	449m NE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Using waste exemption	On a farm	Use of waste in construction
E	449m NE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Using waste exemption	On a farm	Incorporation of ash into soil
E	449m NE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
E	449m NE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Using waste exemption	On a farm	Use of waste for a specified purpose



ID	Location	Site	Reference	Category	Sub-Category	Description
E	449m NE	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Deposit of waste from dredging of inland waters
E	449m NE	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
E	449m NE	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Using waste exemption	Both agricultural and non- agricultural waste	Incorporation of ash into soil
E	449m NE	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Using waste exemption	Both agricultural and non- agricultural waste	Burning of waste as a fuel in a small appliance
E	449m NE	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste for a specified purpose
E	449m NE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Disposing of waste exemption	On a farm	Burning waste in the open
E	449m NE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	449m NE	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open
E	449m NE	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading waste on agricultural land to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Using waste exemption	On a farm	Incorporation of ash into soil
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Using waste exemption	On a farm	Use of waste for a specified purpose
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Using waste exemption	On a farm	Use of waste in construction
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Disposing of waste exemption	On a farm	Burning waste in the open
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Using waste exemption	On a Farm	Use of waste in construction
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Using waste exemption	On a Farm	Use of waste for a specified purpose
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Using waste exemption	On a Farm	Incorporation of ash into soil
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Using waste exemption	On a farm	Use of waste in construction
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Using waste exemption	On a farm	Incorporation of ash into soil
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Using waste exemption	On a farm	Use of waste for a specified purpose
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Disposing of waste exemption	On a Farm	Burning waste in the open
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Disposing of waste exemption	On a farm	Burning waste in the open
F	464m N	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX329988	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX329988	Using waste exemption	On a farm	Spreading waste on non- agricultural land to confer benefit
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX329988	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX329988	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX329988	Disposing of waste exemption	On a farm	Burning waste in the open
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX205328	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX205328	Using waste exemption	On a Farm	Spreading waste on non-agricultural land to confer benefit
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX205328	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX205328	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX045205	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX045205	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX045205	Using waste exemption	On a farm	Spreading waste on non-agricultural land to confer benefit
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX045205	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX205328	Disposing of waste exemption	On a Farm	Burning waste in the open

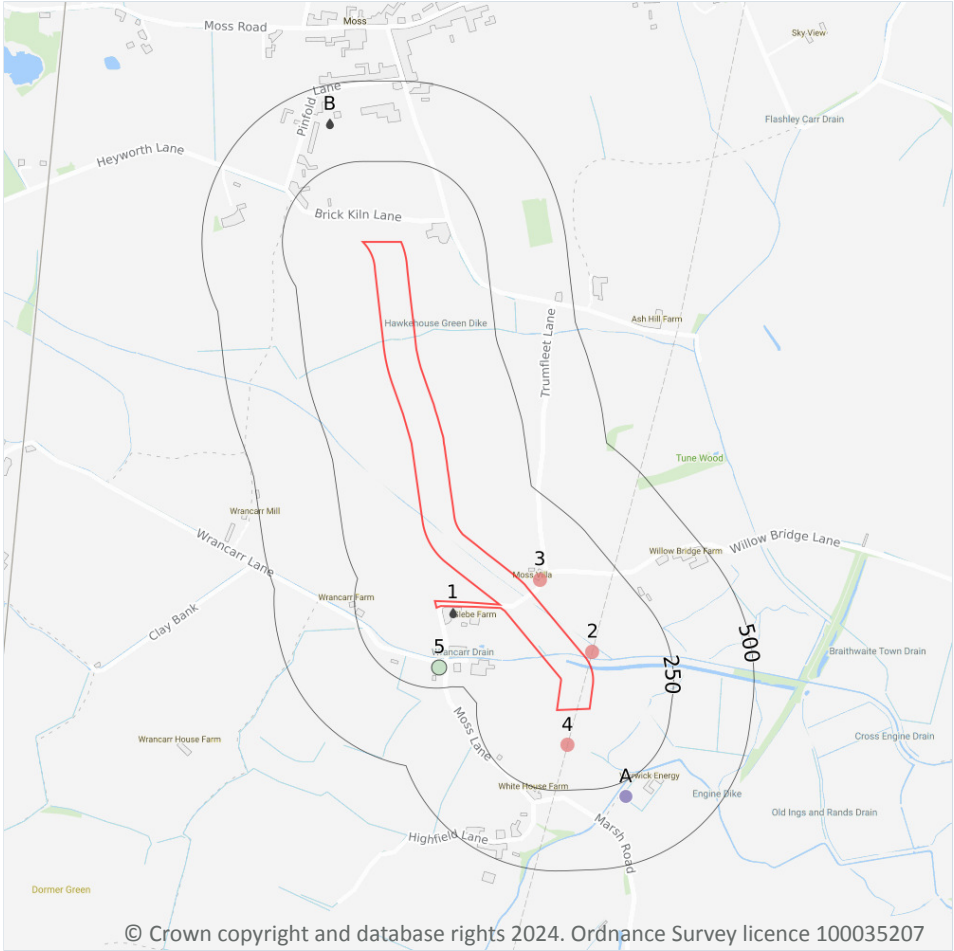


ID	Location	Site	Reference	Category	Sub-Category	Description
G	476m S	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX045205	Disposing of waste exemption	On a farm	Burning waste in the open
G	481m S	Leek Farm Highfield Lane DONCASTER South Yorkshire DN6 0DU	EPR/VE5988M C/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
G	481m S	Leek Farm Highfield Lane DONCASTER South Yorkshire DN6 0DU	EPR/VE5988M C/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	481m S	Leek Farm Highfield Lane DONCASTER South Yorkshire DN6 0DU	EPR/VE5988M C/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
G	481m S	Leek Farm Highfield Lane DONCASTER South Yorkshire DN6 0DU	EPR/VE5988M C/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Historical licensed industrial activities
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m **3**

Current potentially contaminative industrial sites.

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

ID	Location	Company	Address	Activity	Category
2	28m SE	Pylon	South Yorkshire, DN6	Electrical Features	Infrastructure and Facilities
3	46m SE	Orchard Workshops	Moss Villa, Trumfleet Lane, Moss, Doncaster, South Yorkshire, DN6 ODW	Fences, Gates and Railings	Industrial Products
4	110m SE	Pylon	South Yorkshire, DN6	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.



4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

4

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

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

ID	Location	Details	
A	294m SE	Operator: Warwick Energy Exploration and Production Ltd Address: Trumfleet A Wellsite, Marsh Road, Trumfleet, Doncaster, South Yorkshire, DN6 0DT Process: Gasification And Associated Processes Permit Number: AZ7084	Original Permit Number: IPCAPP Date Approved: 23-12-1997 Effective Date: 6-1-1998 Status: Superseded By Variation
A	294m SE	Operator: Warwick Energy Exploration and Production Ltd Address: Trumfleet A Wellsite, Marsh Road, Trumfleet, Doncaster, South Yorkshire, DN6 0DT Process: Gasification And Associated Processes Permit Number: BE1194	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
A	294m SE	Operator: Warwick Energy Exploration and Production Ltd Address: Trumfleet A Wellsite, Marsh Road, Trumfleet, Doncaster, South Yorkshire, DN6 0DT Process: Gasification And Associated Processes Permit Number: BI5957	Original Permit Number: IPCMINVAR Date Approved: 26-6-2000 Effective Date: 1-7-2000 Status: Superseded By Variation



ID	Location	Details	
A	294m SE	Operator: Warwick Energy Exploration and Production Ltd Address: Trumfleet A Wellsite, Marsh Road, Trumfleet, Doncaster, South Yorkshire, DN6 0DT Process: Gasification And Associated Processes Permit Number: BY8616	Original Permit Number: IPCMINVAR Date Approved: 7-2-2005 Effective Date: 7-2-2005 Status: Revoked

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

0

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

3

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

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



ID	Location	Address	Details	
1	19m S	GLEBE FARM, MOSS, DONCASTER, SOUTH YORKS, DN6 0DW	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: S/P/1833 Permit Version: 1 Receiving Water: TRIB OF DON	Status: UNDETERMINED 1961 APPLICATION Issue date: 29/05/1963 Effective Date: 29/05/1963 Revocation Date: -
B	380m N	BUNGALOW ON PINFOLD LANE, MOSS, DONCASTER, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: C3845 Permit Version: 1 Receiving Water: SOAKAWAY ADJ TO PINFOLD FARM	Status: TRANSFERRED FROM COPA 1974 Issue date: 11/01/1985 Effective Date: 11/01/1985 Revocation Date: 25/07/2012
B	380m N	BUNGALOW ON PINFOLD LANE, MOSS, DONCASTER, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: C3845 Permit Version: 2 Receiving Water: SOAKAWAY ADJ TO PINFOLD FARM	Status: TRANSFERRED FROM COPA 1974 Issue date: 26/07/2012 Effective Date: 26/07/2012 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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



4.16 List 1 Dangerous Substances

Records within 500m

0

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

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

4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

1

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

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

ID	Location	Details	
5	185m S	Incident Date: 07/02/2003 Incident Identification: 135487 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Vegetable Cuttings and Deposits	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m

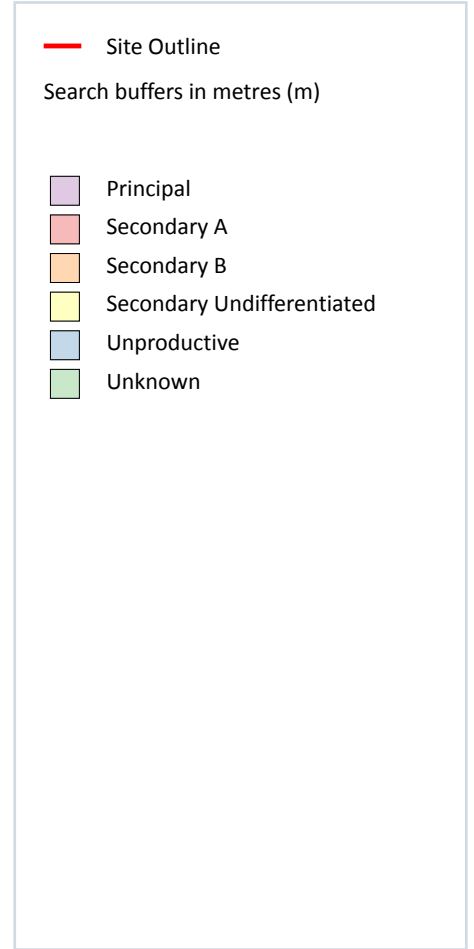
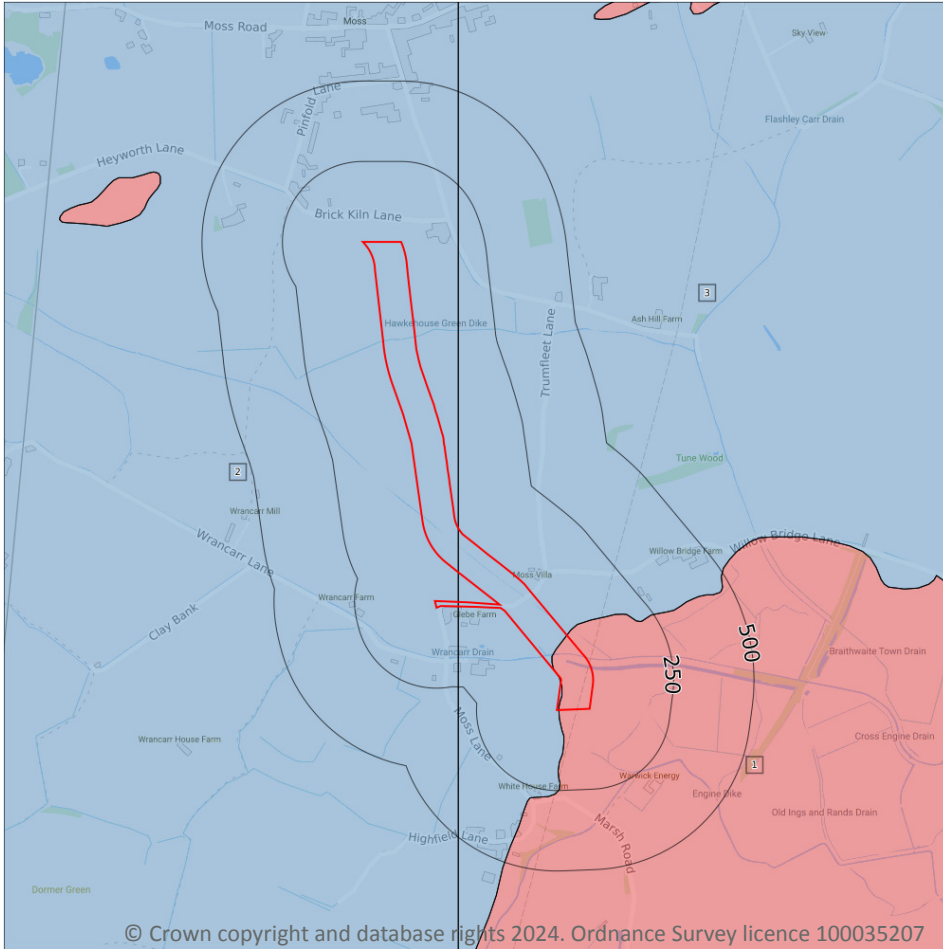
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

3

Aquifer status of groundwater held within superficial geology.

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

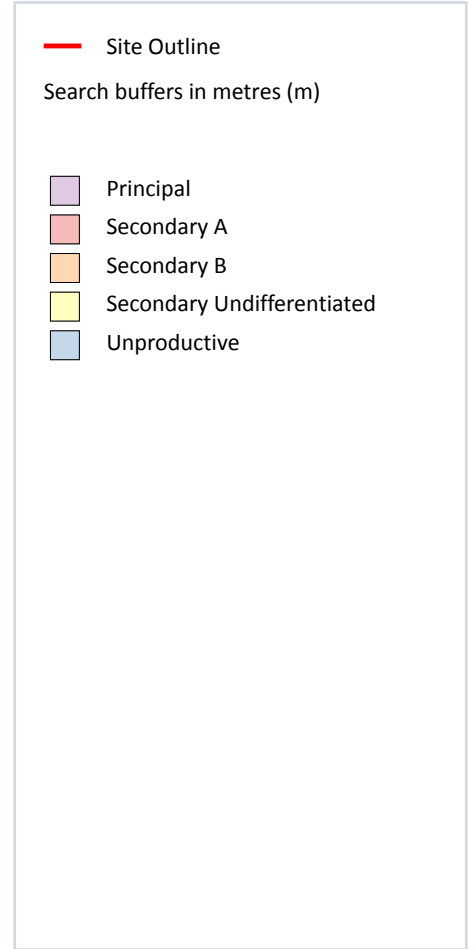
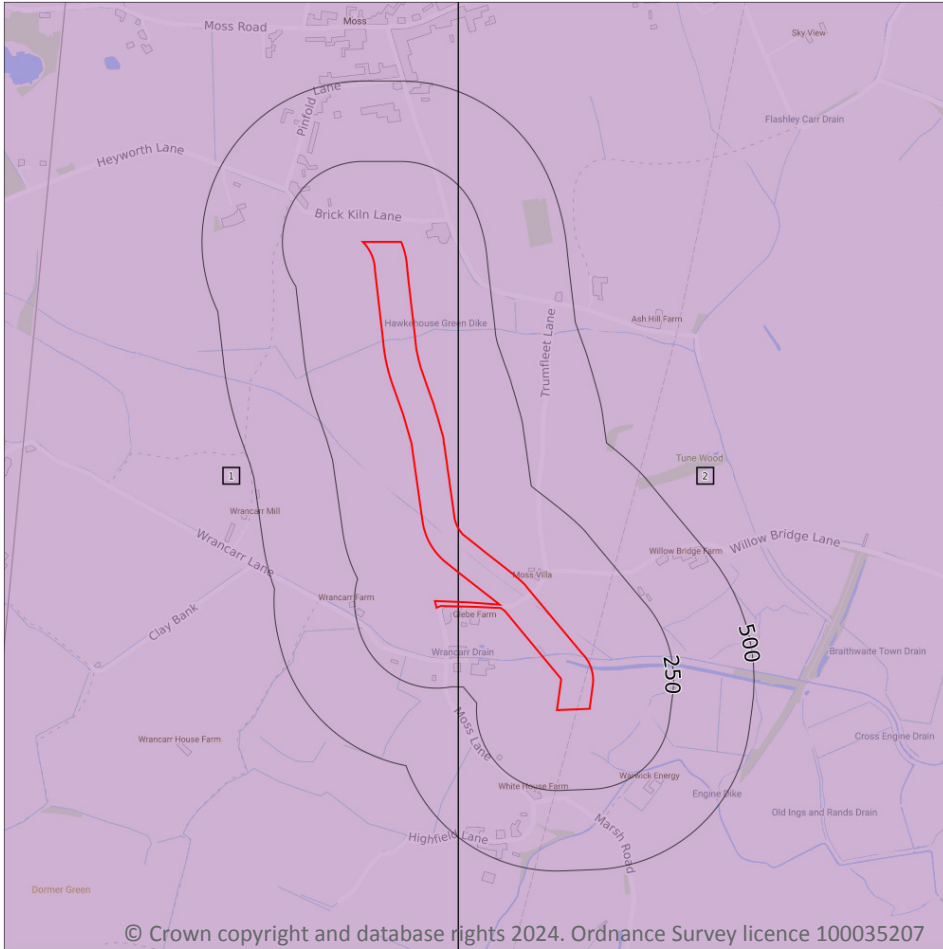
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

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

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

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



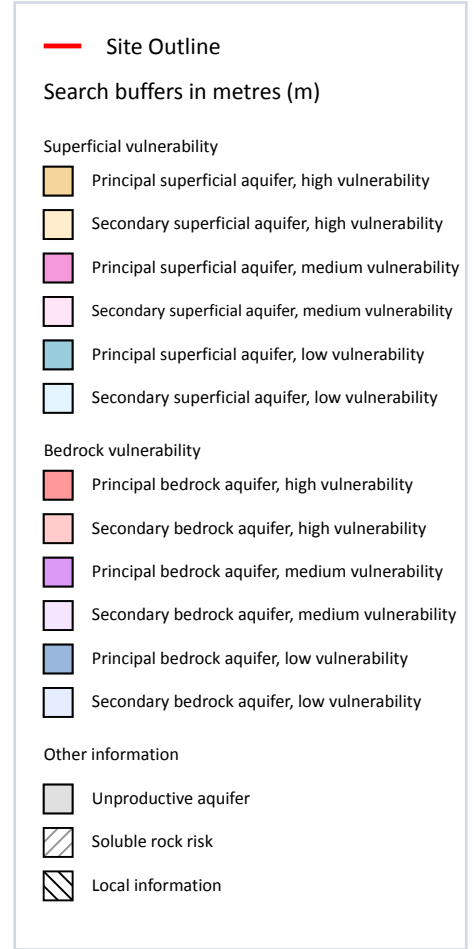
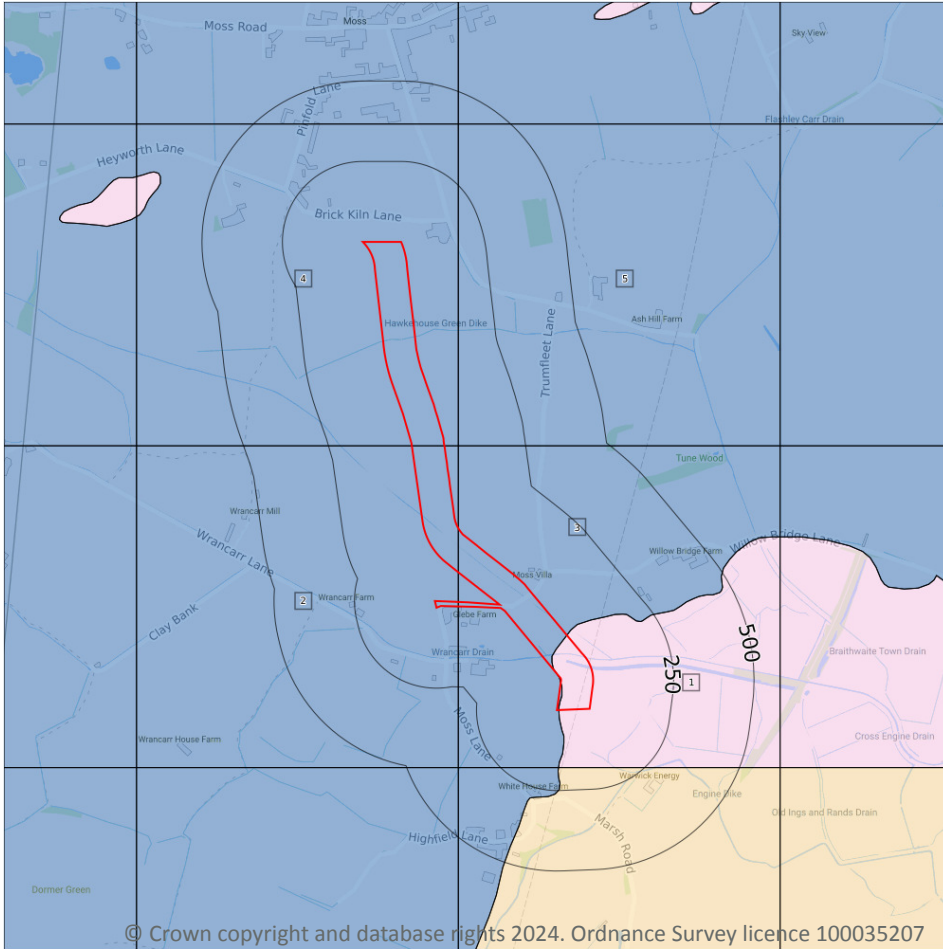
Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 12 January 2024

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

5

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

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

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

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
2	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
3	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
4	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
5	42m N	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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



5.5 Groundwater vulnerability- local information

Records on site

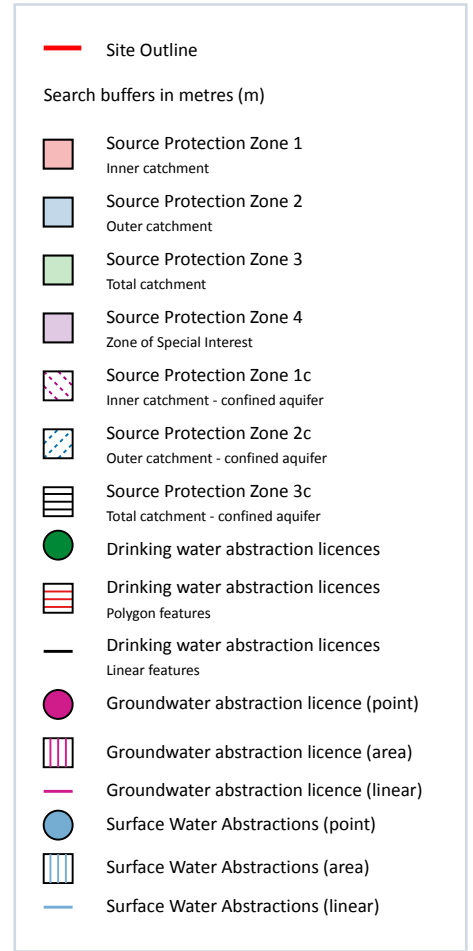
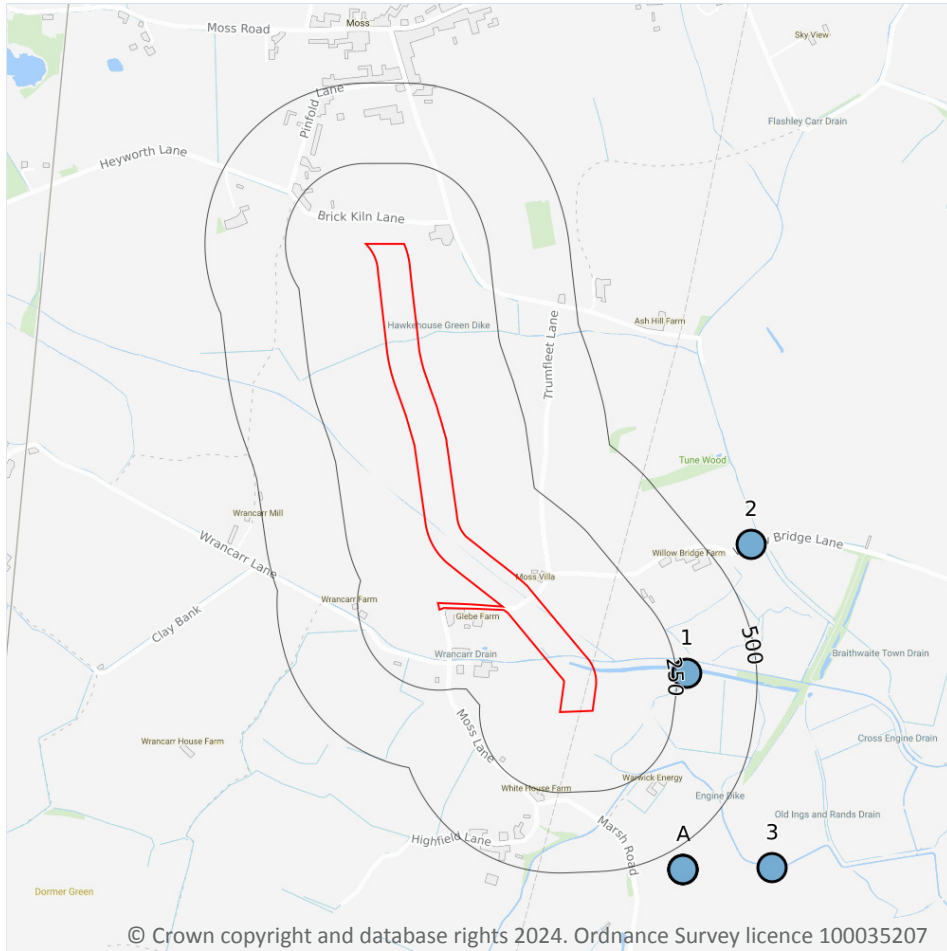
0

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

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



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

1

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 44](#) >

ID	Location	Details	
-	1459m S	Status: Historical Licence No: 2/27/09/184 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE-SHERWOOD SANDSTONE-ELMSTONE STONE FARM Data Type: Point Name: PARKIN-COATES Easting: 459800 Northing: 410810	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/01/2002 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 19/01/2002 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

21

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 44 >](#)

ID	Location	Details	
1	282m SE	Status: Historical Licence No: 2/27/09/159 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: WRANCARR DRAIN Data Type: Point Name: THOMAS Easting: 460700 Northing: 412300	Annual Volume (m ³): 2250 Max Daily Volume (m ³): 250 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/08/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
A	567m SE	Status: Historical Licence No: 2/27/09/174 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/10/1998 Expiry Date: 31/08/2002 Issue No: 100 Version Start Date: 21/10/1998 Version End Date: -



ID	Location	Details	
A	567m SE	Status: Historical Licence No: 2/27/09/188 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 24/03/2003 Expiry Date: 31/08/2009 Issue No: 1 Version Start Date: 24/03/2003 Version End Date: -
A	567m SE	Status: Historical Licence No: 2/27/09/210 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 01/06/2009 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/06/2009 Version End Date: -
A	567m SE	Status: Historical Licence No: 2/27/09/210/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 01/04/2017 Version End Date: -
2	618m E	Status: Historical Licence No: 2/27/09/159 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: BRAITHWAITE DRAIN Data Type: Point Name: THOMAS Easting: 460900 Northing: 412700	Annual Volume (m ³): 2250 Max Daily Volume (m ³): 250 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/08/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
3	741m SE	Status: Active Licence No: 2/27/09/210/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN AT KIRK BRAMWITH Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460966 Northing: 411695	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: NPS/WR/036307 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 2 Version Start Date: 23/08/2021 Version End Date: -



ID	Location	Details	
-	899m S	Status: Active Licence No: 2/27/09/199/R01 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460639 Northing: 411314	Annual Volume (m ³): 57622 Max Daily Volume (m ³): 1531.2 Original Application No: NPS/WR/036780 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 3 Version Start Date: 23/08/2021 Version End Date: -
-	899m S	Status: Historical Licence No: 2/27/09/199 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460639 Northing: 411314	Annual Volume (m ³): 57662 Max Daily Volume (m ³): 1531.2 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
-	903m S	Status: Historical Licence No: 2/27/09/199 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460640 Northing: 411310	Annual Volume (m ³): 57662 Max Daily Volume (m ³): 1531.2 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
-	903m S	Status: Historical Licence No: 2/27/09/170 Details: Transfer between Sources (Pre Water Act 2003) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460600 Northing: 411300	Annual Volume (m ³): 57662 Max Daily Volume (m ³): 1531.2 Original Application No: - Original Start Date: 11/07/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 01/04/2006 Version End Date: -



ID	Location	Details	
-	1058m SE	Status: Historical Licence No: 2/27/09/200 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON OLD COURSE Data Type: Line Name: LEONARD PASHLEY & SON Easting: 460670 Northing: 411130	Annual Volume (m ³): 52420 Max Daily Volume (m ³): 1392 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
-	1061m SE	Status: Active Licence No: 2/27/09/200/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON OLD COURSE Data Type: Line Name: LEONARD PASHLEY & SON Easting: 460667 Northing: 411129	Annual Volume (m ³): 52420 Max Daily Volume (m ³): 1392 Original Application No: NPS/WR/036304 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 2 Version Start Date: 23/08/2021 Version End Date: -
-	1061m SE	Status: Historical Licence No: 2/27/09/200 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON OLD COURSE Data Type: Line Name: LEONARD PASHLEY & SON Easting: 460667 Northing: 411129	Annual Volume (m ³): 52420 Max Daily Volume (m ³): 1392 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
-	1088m SE	Status: Historical Licence No: 2/27/09/171 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON OLD COURSE Data Type: Line Name: LEONARD PASHLEY & SON Easting: 460600 Northing: 411100	Annual Volume (m ³): 52420 Max Daily Volume (m ³): 1392 Original Application No: - Original Start Date: 11/07/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 11/07/1997 Version End Date: -
-	1151m SE	Status: Active Licence No: 2/27/09/065 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON/OLD RIVER CHANNEL Data Type: Point Name: N L DURDY & SON LTD Easting: 460800 Northing: 411100	Annual Volume (m ³): 15138 Max Daily Volume (m ³): 727.36 Original Application No: 2476 Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -



ID	Location	Details	
-	1619m SE	Status: Active Licence No: NE/027/0009/030 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: STAINFORTH AND KEADBY CANAL Data Type: Line Name: Canal and River Trust Easting: 461635 Northing: 411126	Annual Volume (m ³): 20000 Max Daily Volume (m ³): 800 Original Application No: NPS/WR/02988 Original Start Date: 08/03/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 08/03/2019 Version End Date: -
-	1828m SE	Status: Active Licence No: 2/27/09/197/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION-SOUTH BRAMWITH Data Type: Line Name: Canal and River Trust Easting: 460980 Northing: 410309	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 514 Original Application No: NPS/WR/021594 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 01/04/2017 Version End Date: -
-	1845m SE	Status: Historical Licence No: 2/27/09/136 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION-SOUTH BRAMWITH Data Type: Line Name: BRITISH WATERWAYS Easting: 460990 Northing: 410290	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 513.69 Original Application No: - Original Start Date: 24/11/1987 Expiry Date: 30/09/2006 Issue No: 101 Version Start Date: 14/07/2004 Version End Date: -
-	1845m SE	Status: Historical Licence No: 2/27/09/197 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION-SOUTH BRAMWITH Data Type: Line Name: Canal and River Trust Easting: 460990 Northing: 410290	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 513.69 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 2 Version Start Date: 21/01/2008 Version End Date: -
-	1856m SE	Status: Historical Licence No: 2/27/09/136 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION Data Type: Line Name: BRITISH WATERWAYS Easting: 461000 Northing: 410300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/11/1987 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 16/04/1992 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

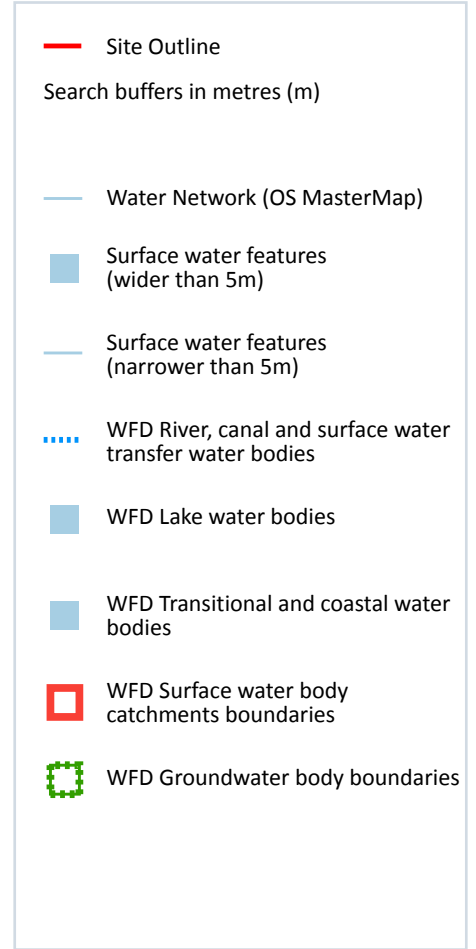
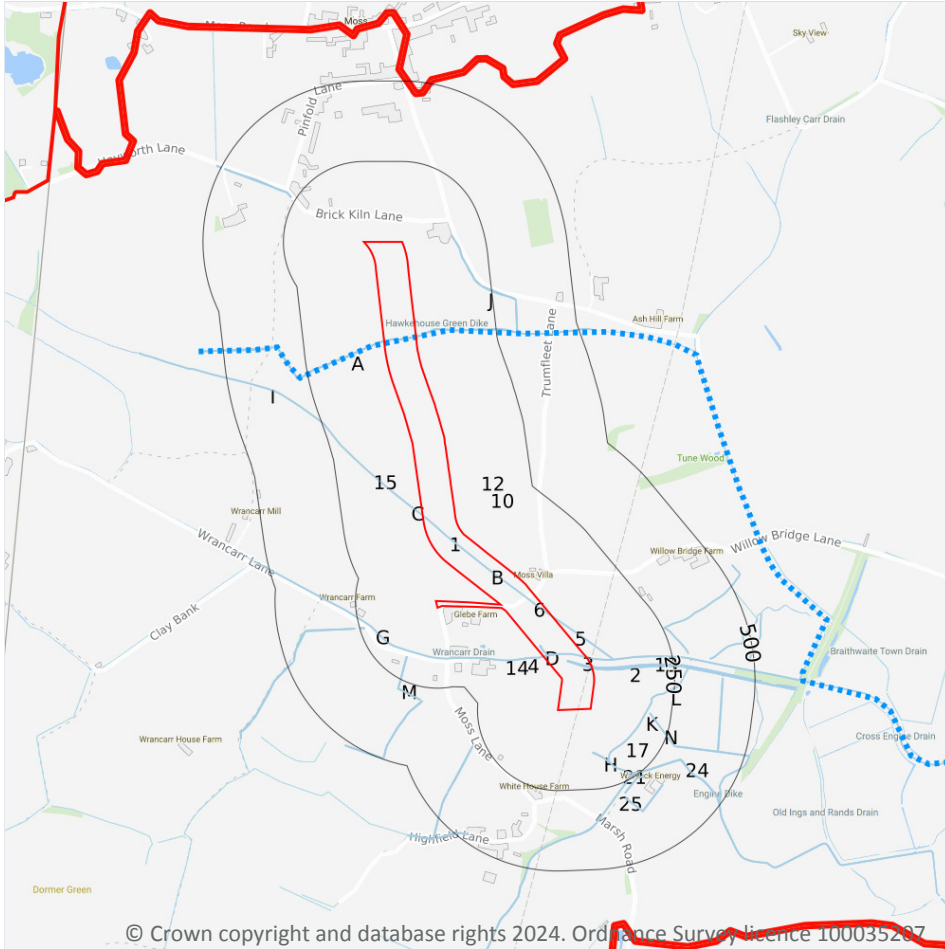
0

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



6.1 Water Network (OS MasterMap)

Records within 250m

27

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 51](#) >

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Mill Dike

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wrancarr Drain
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wrancarr Drain
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mill Dike
6	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Mill Dike
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hawkehouse Green Dike
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mill Dike
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mill Dike
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	69m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wrancarr Drain
14	102m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Wrancarr Drain
G	105m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wrancarr Drain



ID	Location	Type of water feature	Ground level	Permanence	Name
H	135m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
15	138m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Mill Dike
I	141m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mill Dike
17	144m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	152m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	160m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
L	174m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
21	177m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	178m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	183m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	234m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
24	239m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
25	239m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

17

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 51 >](#)

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 51 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
10	On site	River	Bramwith Drain from Source to River Don	GB104027063290	Don Lower	Don and Rother

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 51 >](#)



ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
11	On site	River	Bramwith Drain from Source to River Don	GB104027063290 ↗	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
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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.

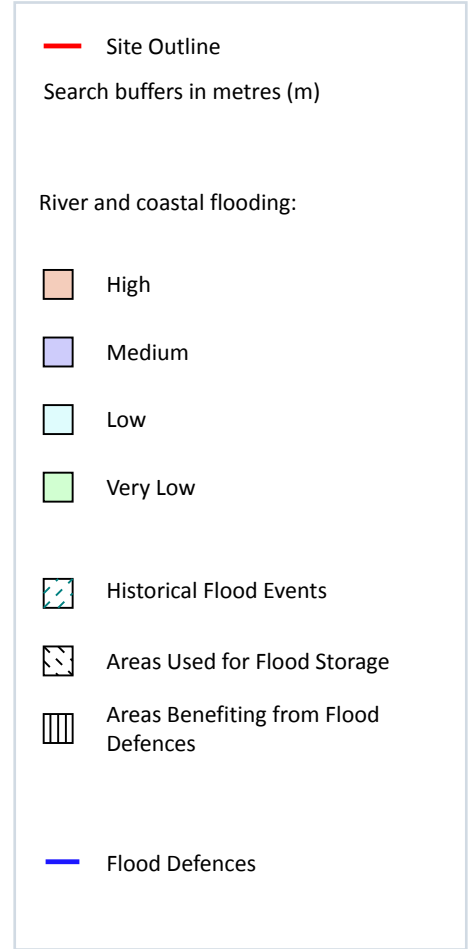
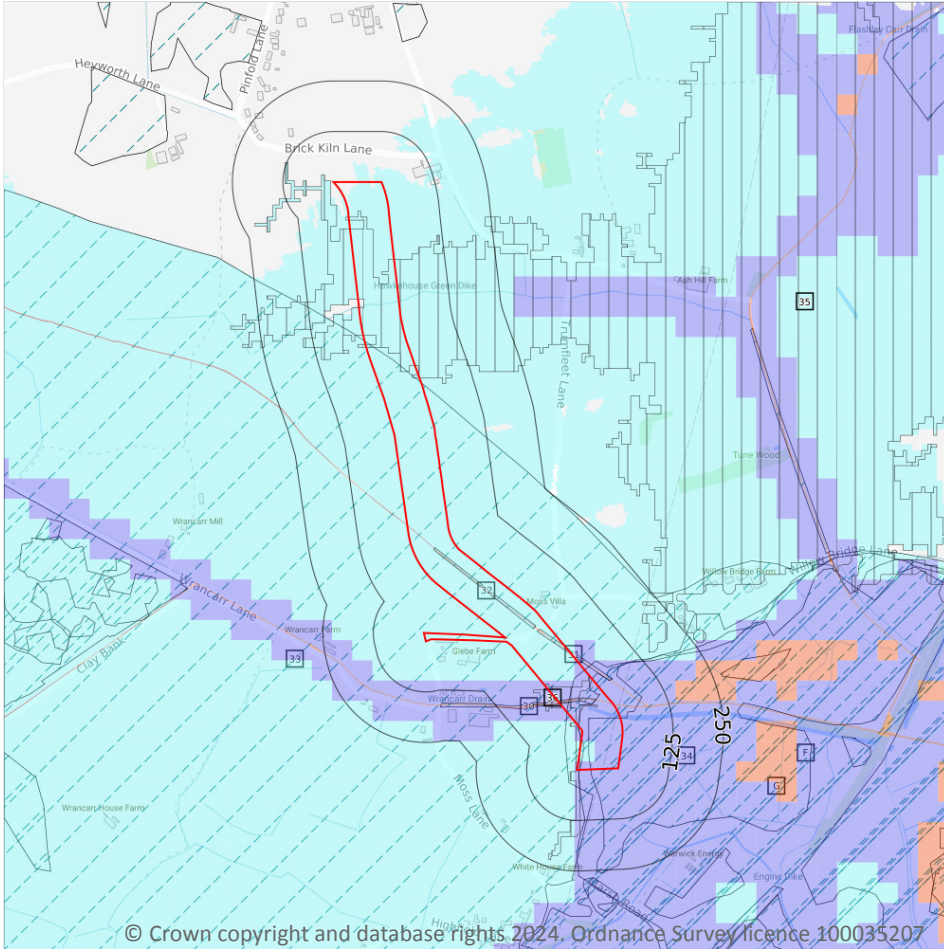
Features are displayed on the Hydrology map on [page 51](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
12	On site	Aire & Don Sherwood Sandstone.	GB40401G701000 ↗	Poor	Poor	Poor	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

58

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

Features are displayed on the River and coastal flooding map on [page 56 >](#)

Distance	Flood risk category
On site	High
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	7
---------------------	---

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.

Features are displayed on the River and coastal flooding map on [page 56 >](#)

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
30	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data
31	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data
32	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data
33	On site	123 March 1947	1947-03-19 1947-03-22	Main river	Operational failure/breach of defence	Fluvial
34	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
F	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
G	On site	June 2007 Flood Event (Ridings Area)	2007-06-25 2007-06-26	Unknown	Unknown	Fluvial

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

2

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.

Features are displayed on the River and coastal flooding map on [page 56 >](#)

ID	Location	
35	On site	Area benefiting from flood defences
36	On site	Area benefiting from flood defences

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

7.5 Flood Storage Areas

Records within 250m

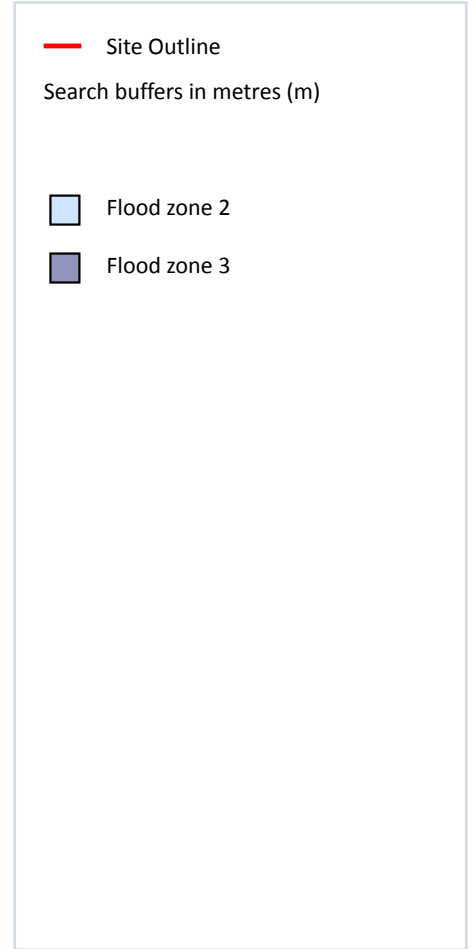
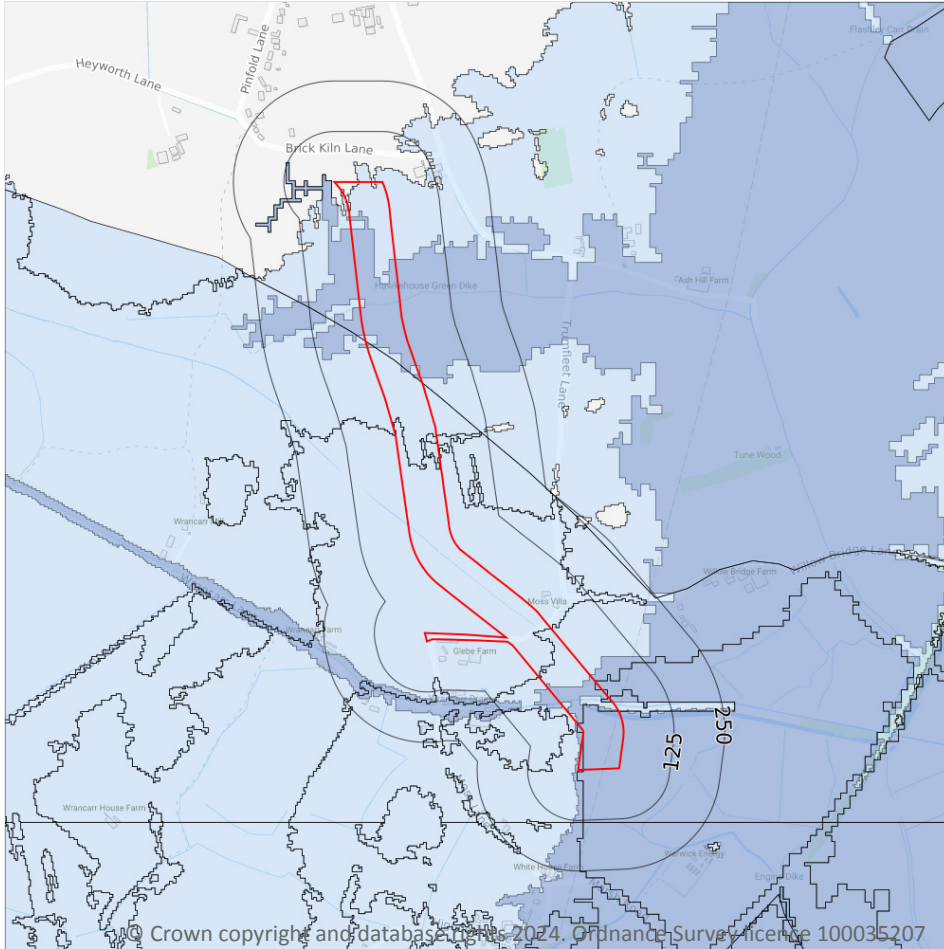
0

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

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



River and coastal flooding - Flood Zones



7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 56](#) >

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

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

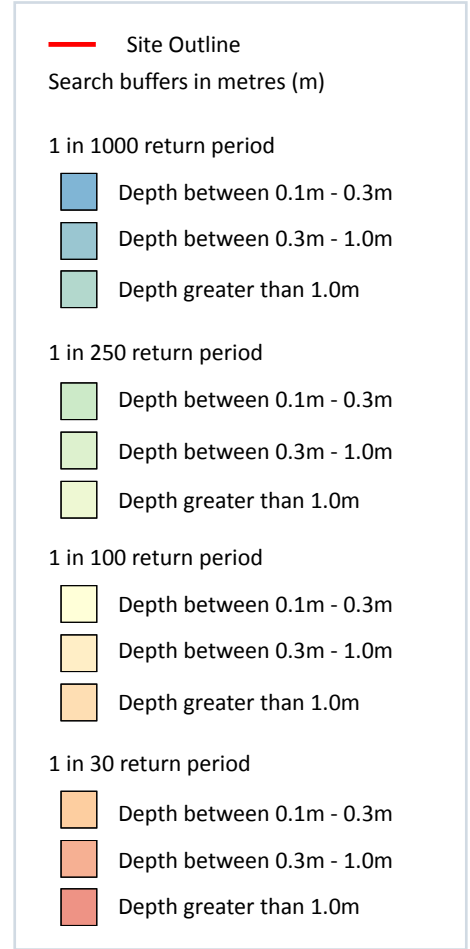
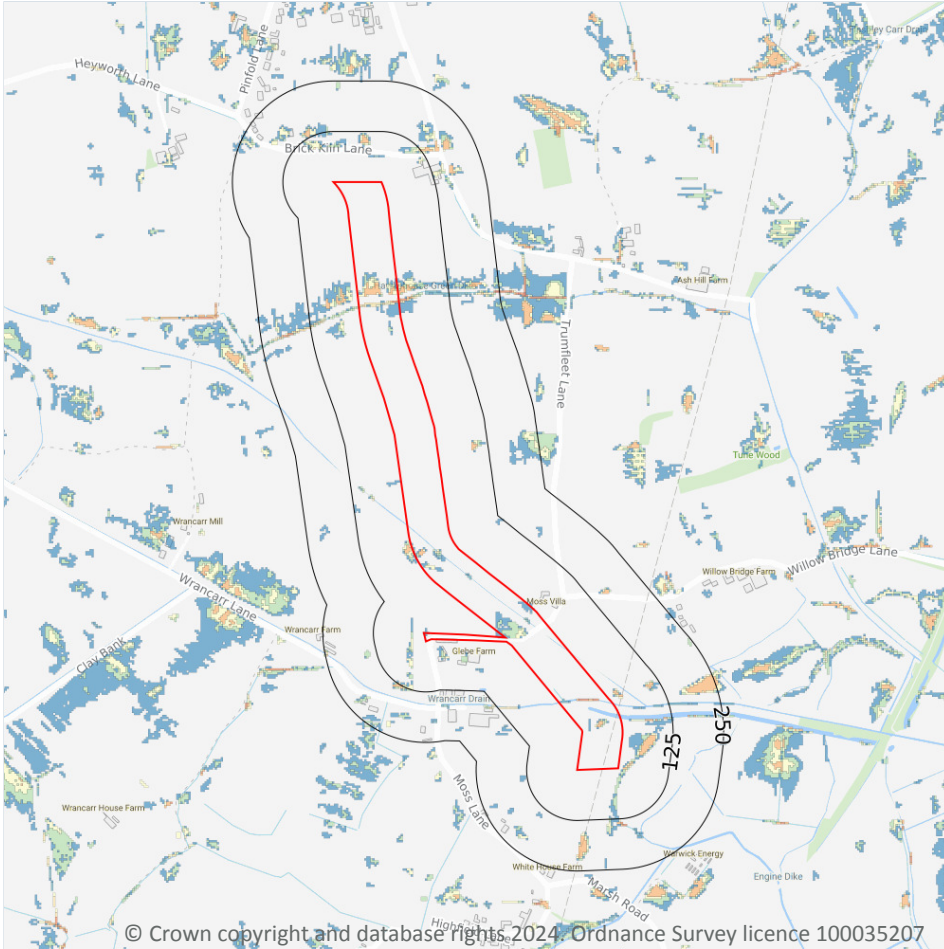
Features are displayed on the River and coastal flooding map on [page 56 >](#)

Location	Type
On site	Zone 3 - (Fluvial Models)

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

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on [page 61](#) >

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

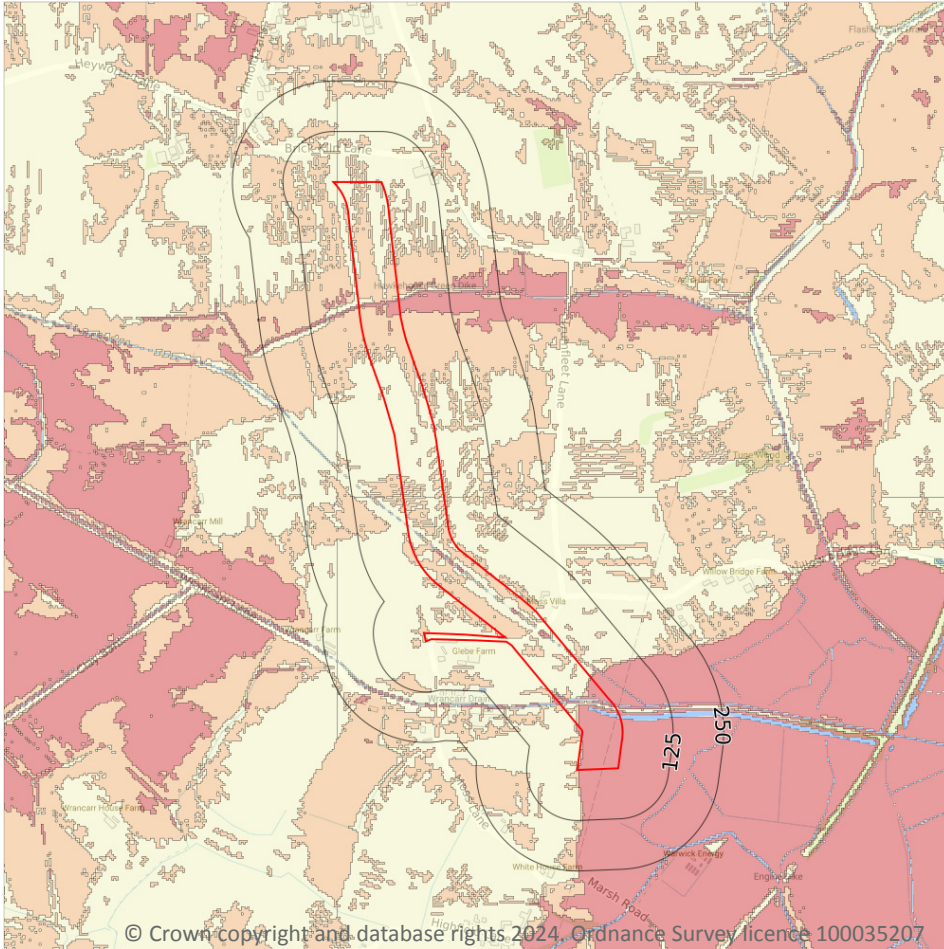
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

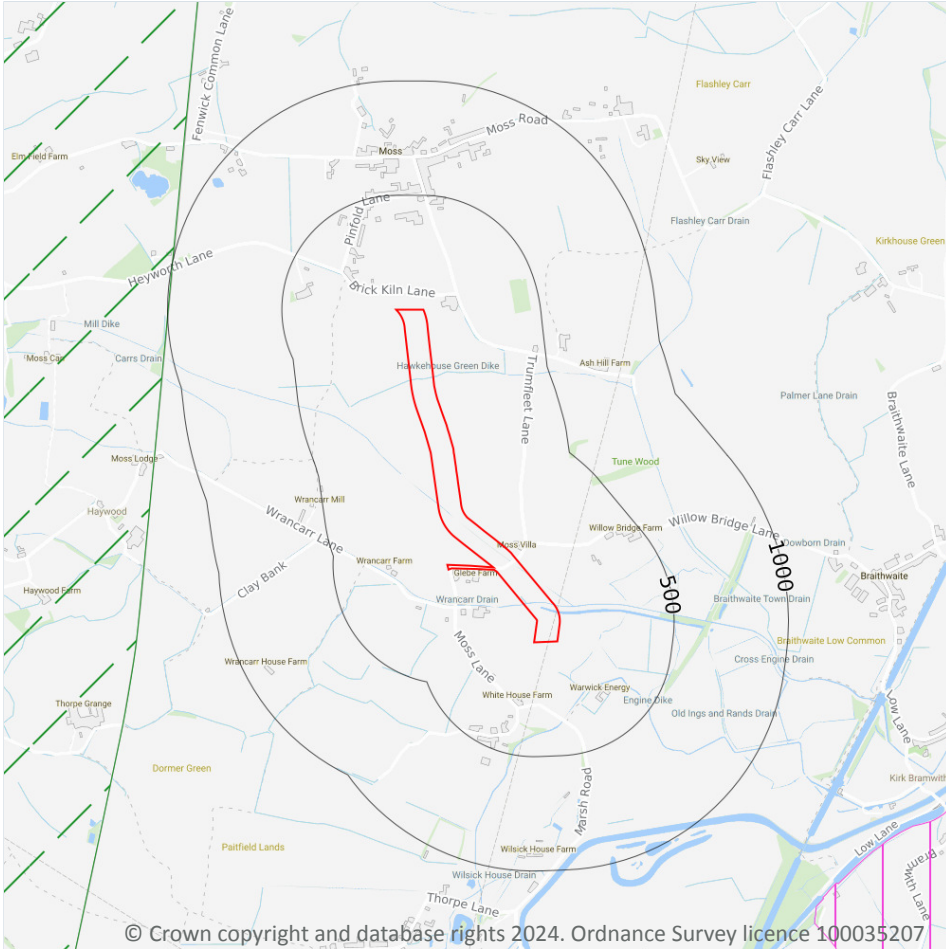
High

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

Features are displayed on the Groundwater flooding map on [page 63](#) >

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

0

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

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

1

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

Features are displayed on the Environmental designations map on [page 64 >](#)

ID	Location	Name	Local Authority name
1	993m NW	South and West Yorkshire	Doncaster

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

1

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).

Features are displayed on the Environmental designations map on [page 64 >](#)

ID	Location	Name	Data source
2	1613m SE	Hatfield	Natural England

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

5

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	Bramwith Drain from Source to River Don NVZ	Surface Water	280	Existing
243m SE	LOWER DON NVZ	Surface Water	298	Existing
787m SW	Ea Beck from Abbess Dyke to River Don NVZ	Surface Water	279	Existing
894m S	Nottinghamshire	Groundwater	40	Existing

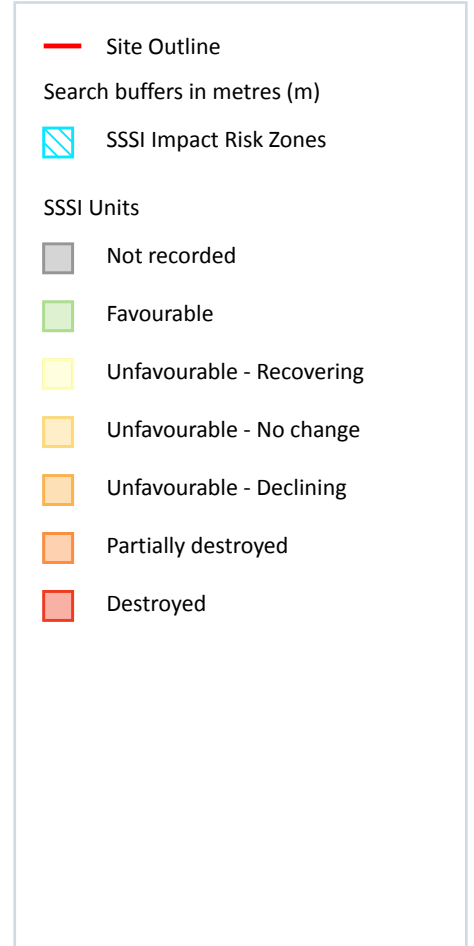
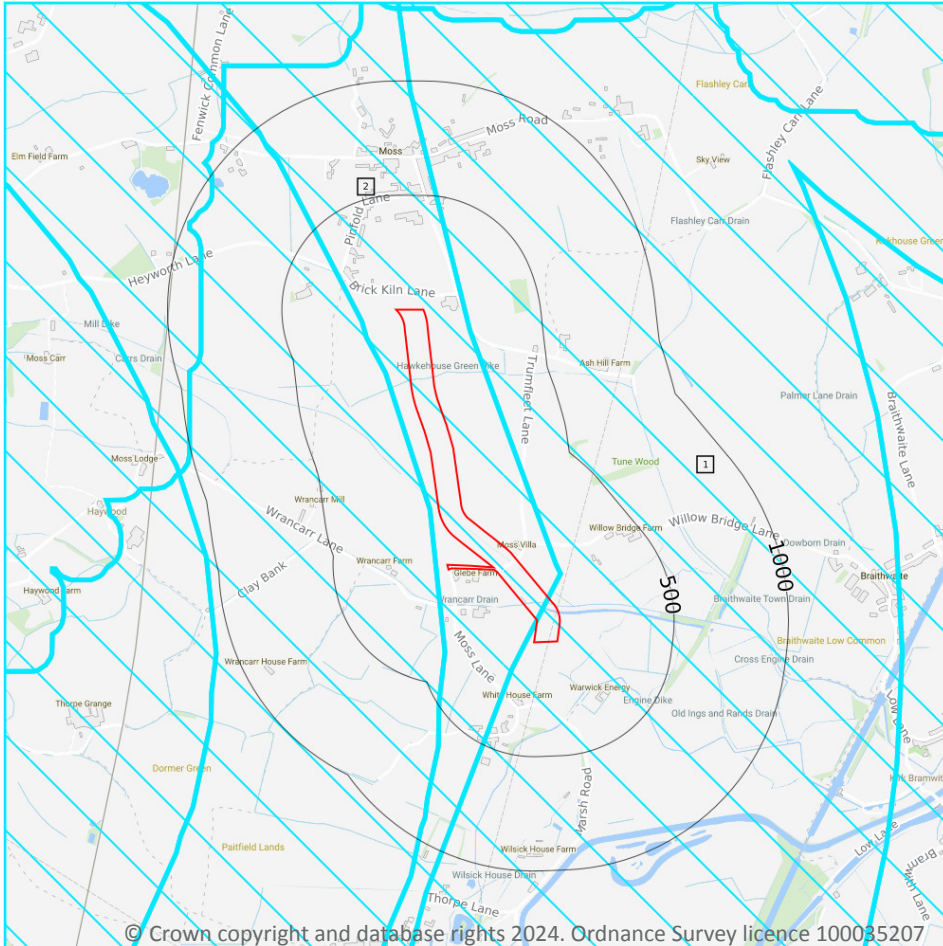


Location	Name	Type	NVZ ID	Status
1152m NW	Went from Blowell Drain to the River Don NVZ	Surface Water	299	Existing

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



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

2

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 70](#) >

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p>
2	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.</p>

This data is sourced from Natural England.

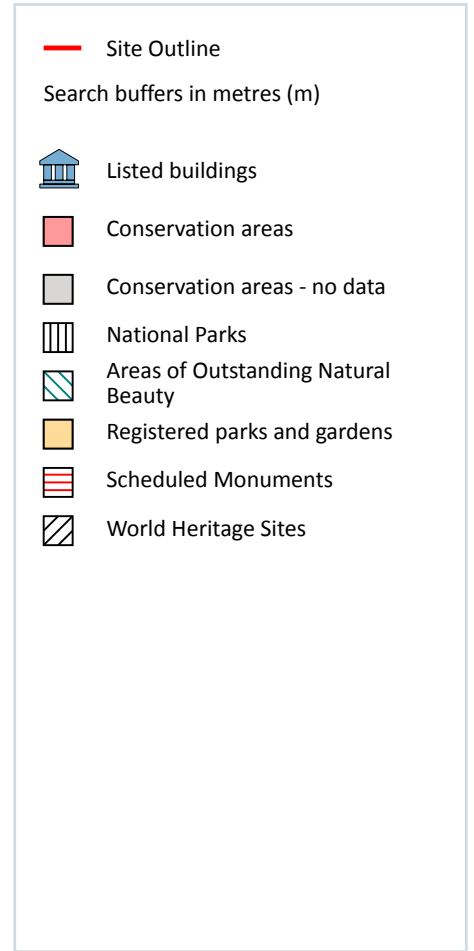
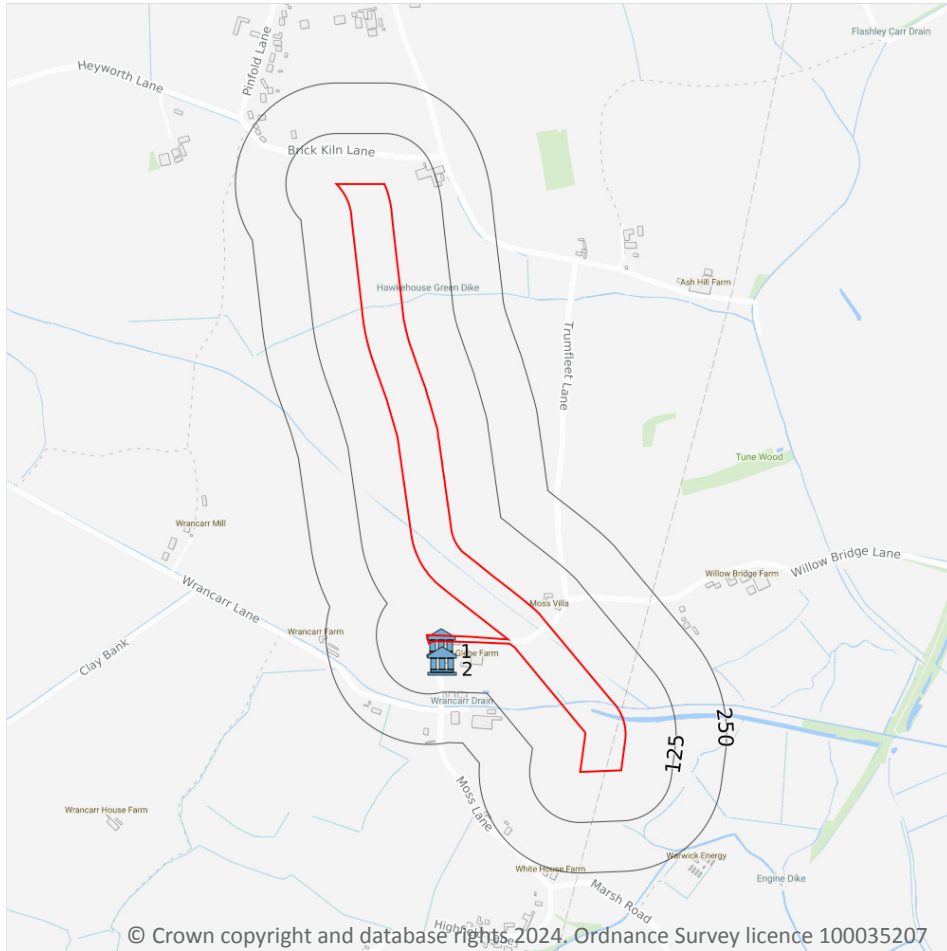
10.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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

2

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

Features are displayed on the Visual and cultural designations map on [page 72 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	5m S	Barn Approximately 30 Metres To North Glebe Farmhouse	II	1314794	29/09/1987
2	49m S	Glebe Farmhouse	II	1192743	29/09/1987

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

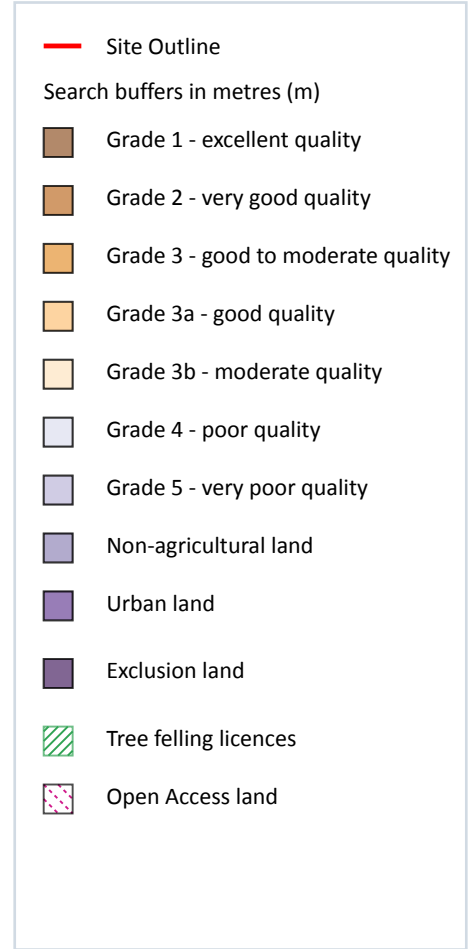
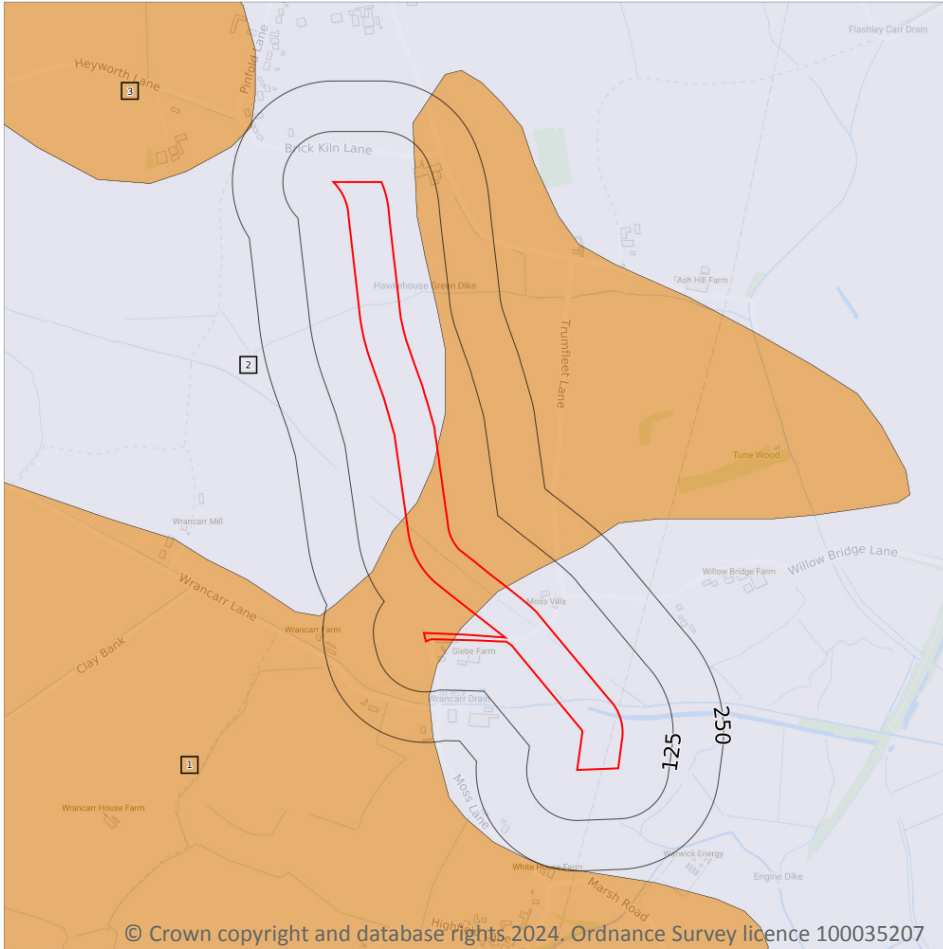
0

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



12.1 Agricultural Land Classification

Records within 250m

3

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 75 >](#)

ID	Location	Classification	Description
1	On site	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.

ID	Location	Classification	Description
2	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
3	245m NW	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**2**

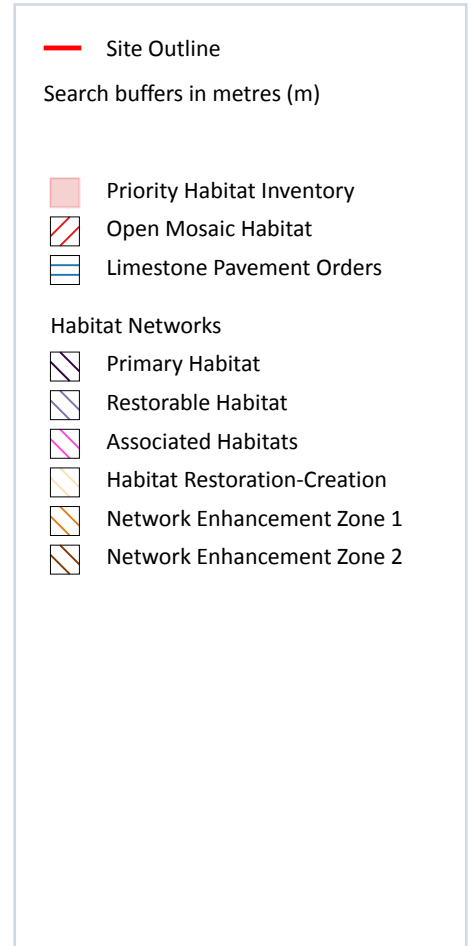
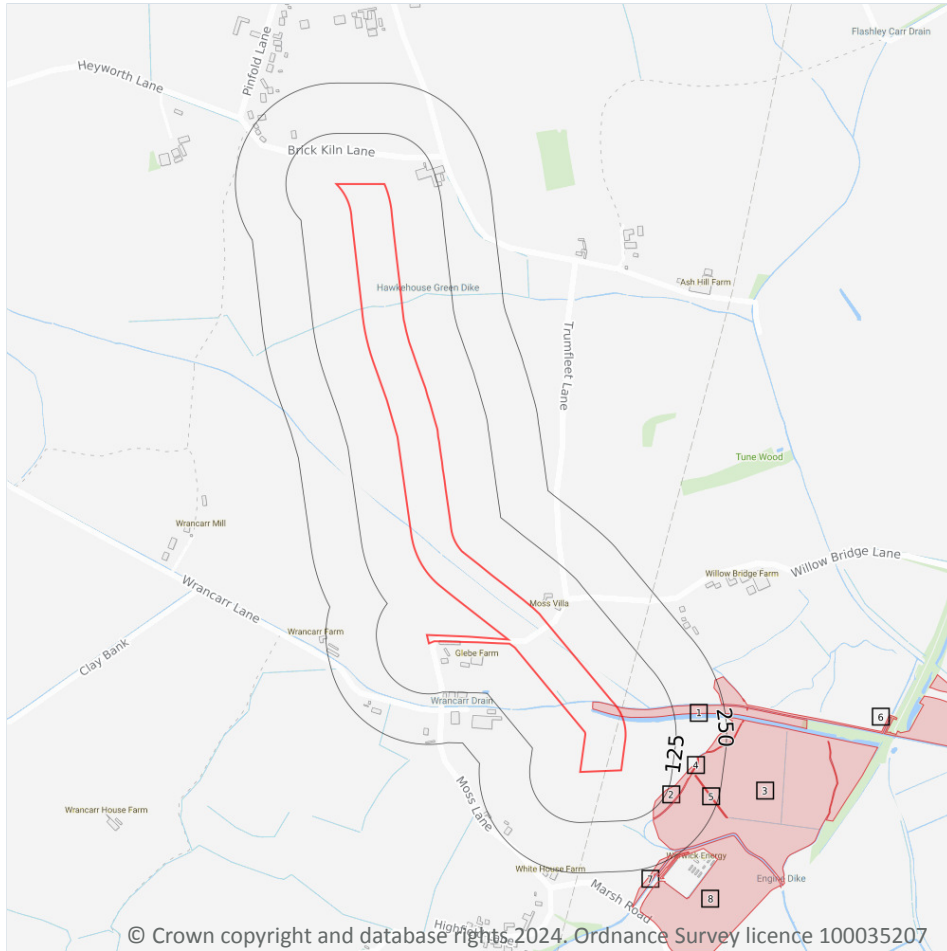
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
On site	1268130	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026
165m N	1268130	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

8

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 78](#) >

ID	Location	Main Habitat	Other habitats
1	On site	No main habitat but additional habitats present	Additional: CFPGM (INV 50%)
2	114m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
3	146m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
4	173m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	183m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
6	238m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
7	242m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
8	243m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

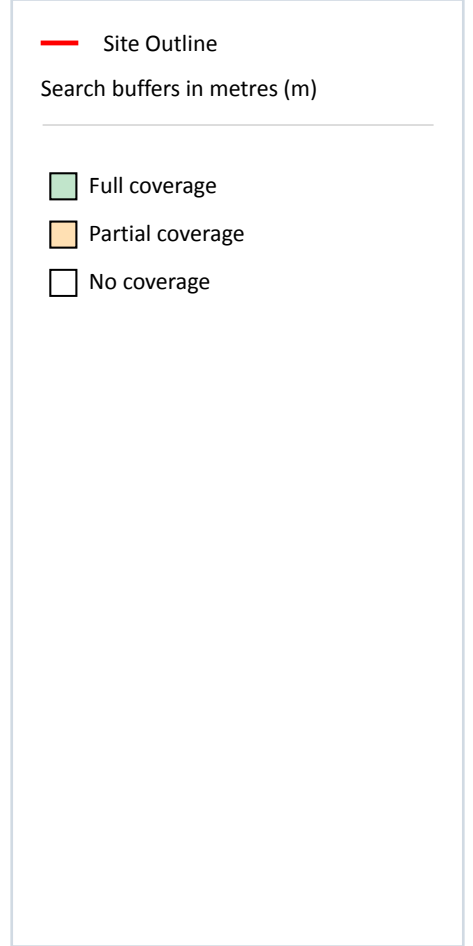
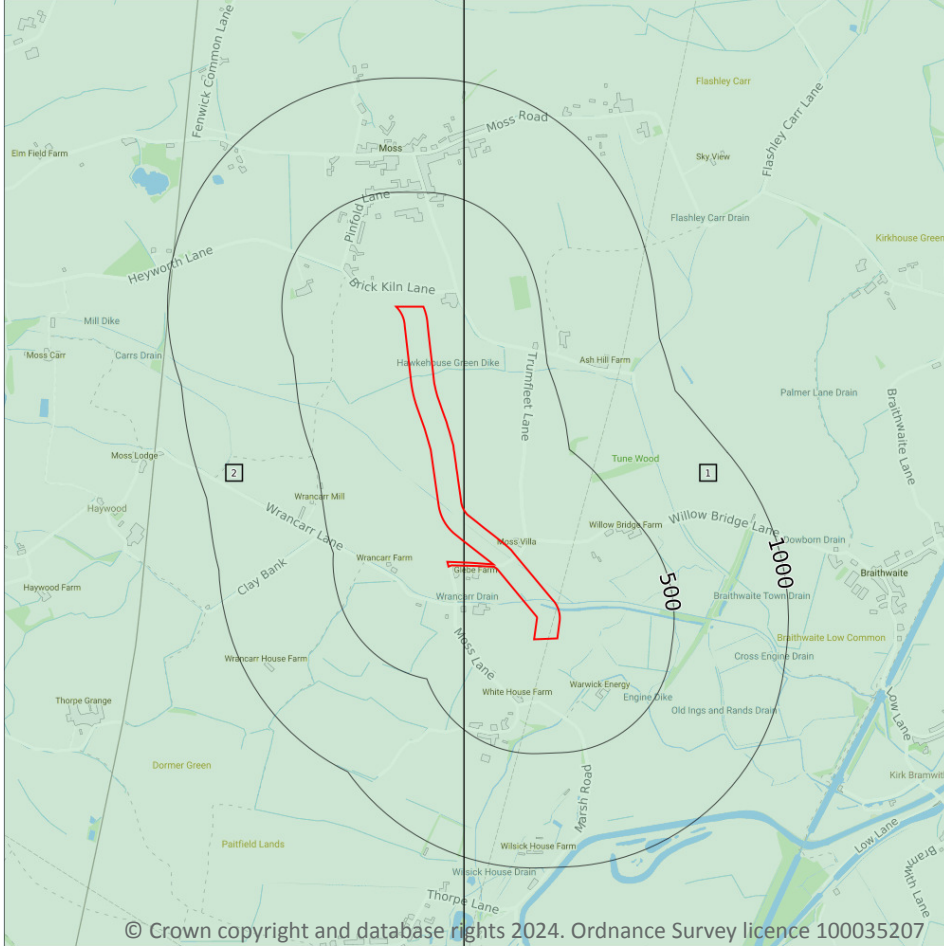
0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



14.1 10k Availability

Records within 500m

2

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

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 80](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SE61SW
2	On site	No coverage	Full	Full	No coverage	SE51SE

This data is sourced from the British Geological Survey.



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

14.2 Artificial and made ground (10k)

Records within 500m

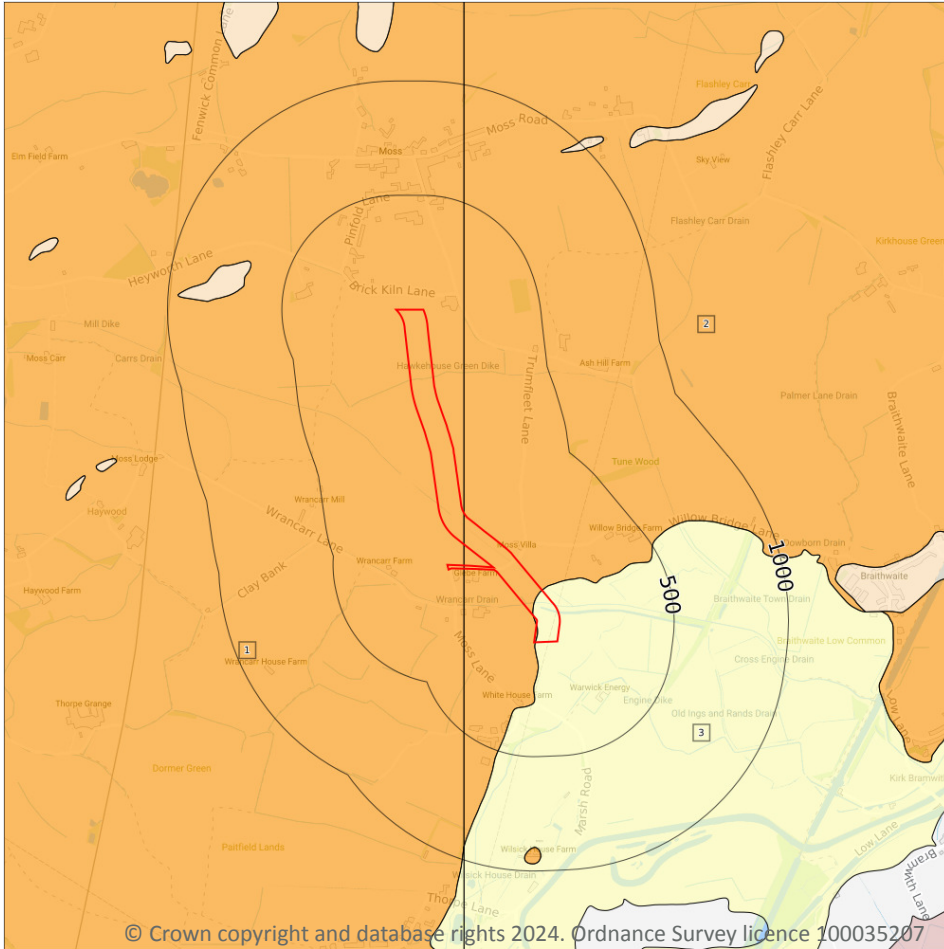
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



- 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

3

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 82](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
2	On site	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
3	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

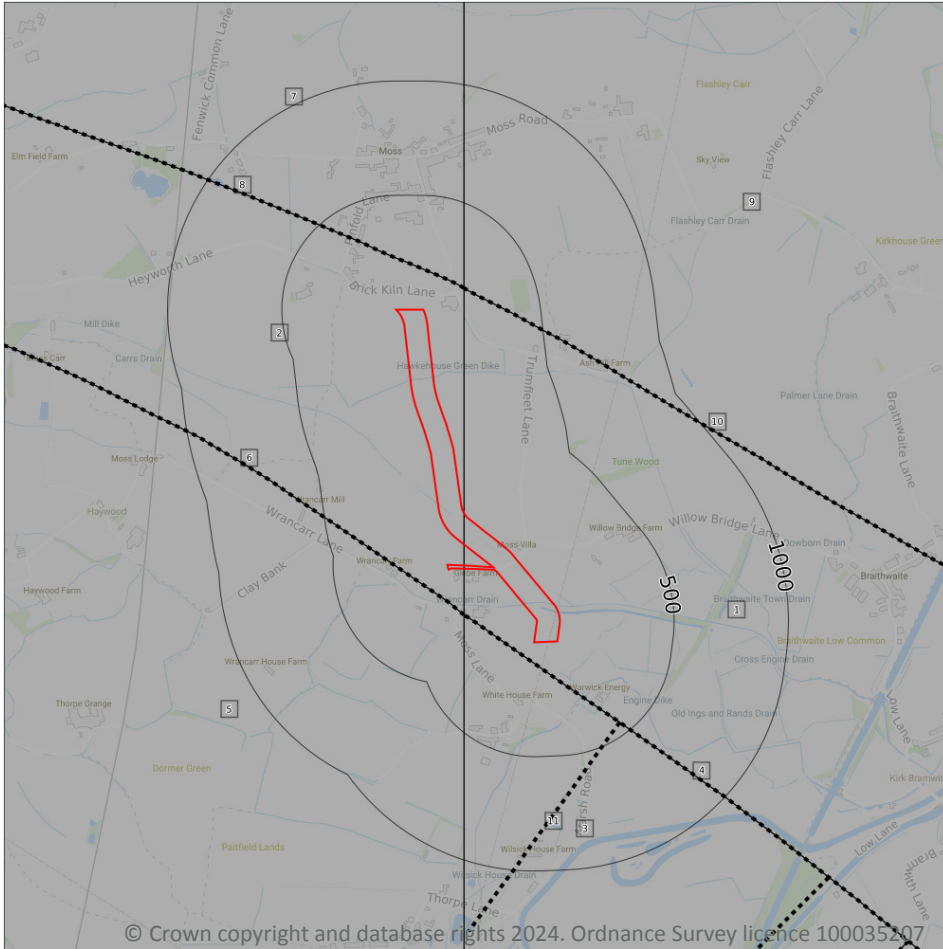
0

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

6

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 84](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
2	On site	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
3	75m S	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
5	118m S	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch

ID	Location	LEX Code	Description	Rock age
7	163m N	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
9	201m N	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

5

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.

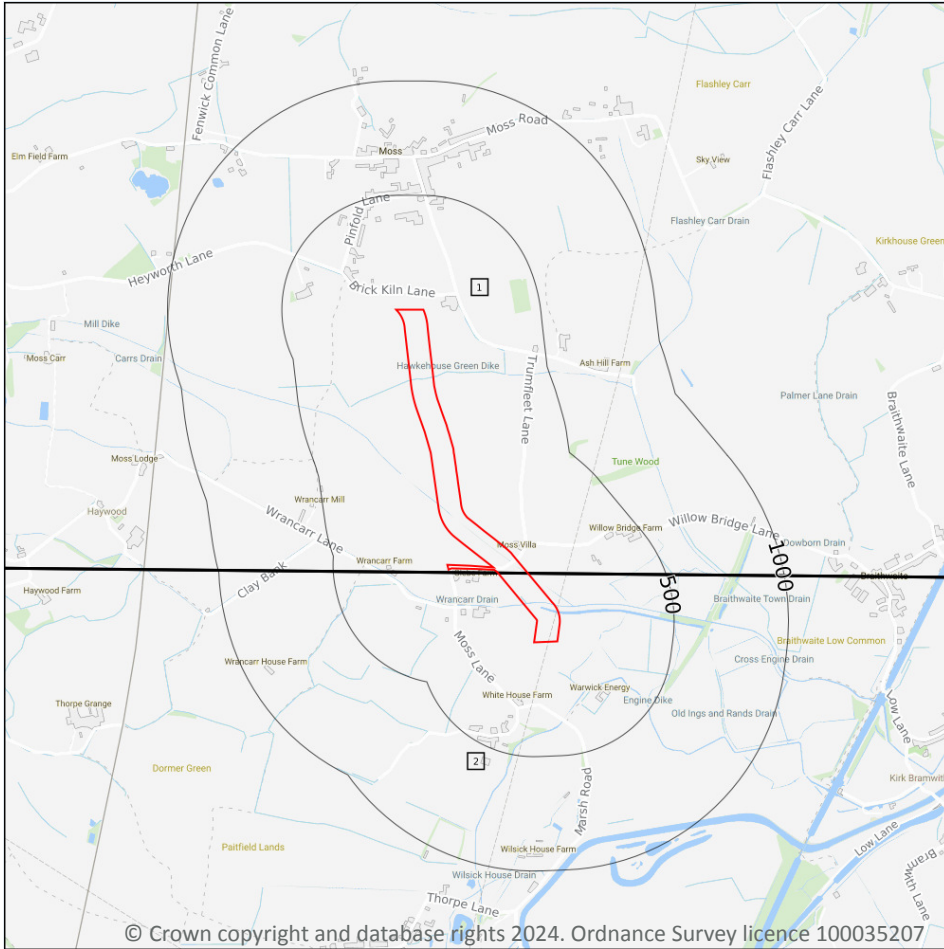
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 84 >](#)

ID	Location	Category	Description
4	75m S	FAULT	Normal fault, inferred; crossmarks on downthrow side
6	118m S	FAULT	Normal fault, inferred; crossmarks on downthrow side
8	163m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
10	201m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
11	447m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

□ Geographical map tile

15.1 50k Availability

Records within 500m

2

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 86](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW079_goole_v4
2	On site	No coverage	Full	Full	No coverage	EW088_doncaster_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

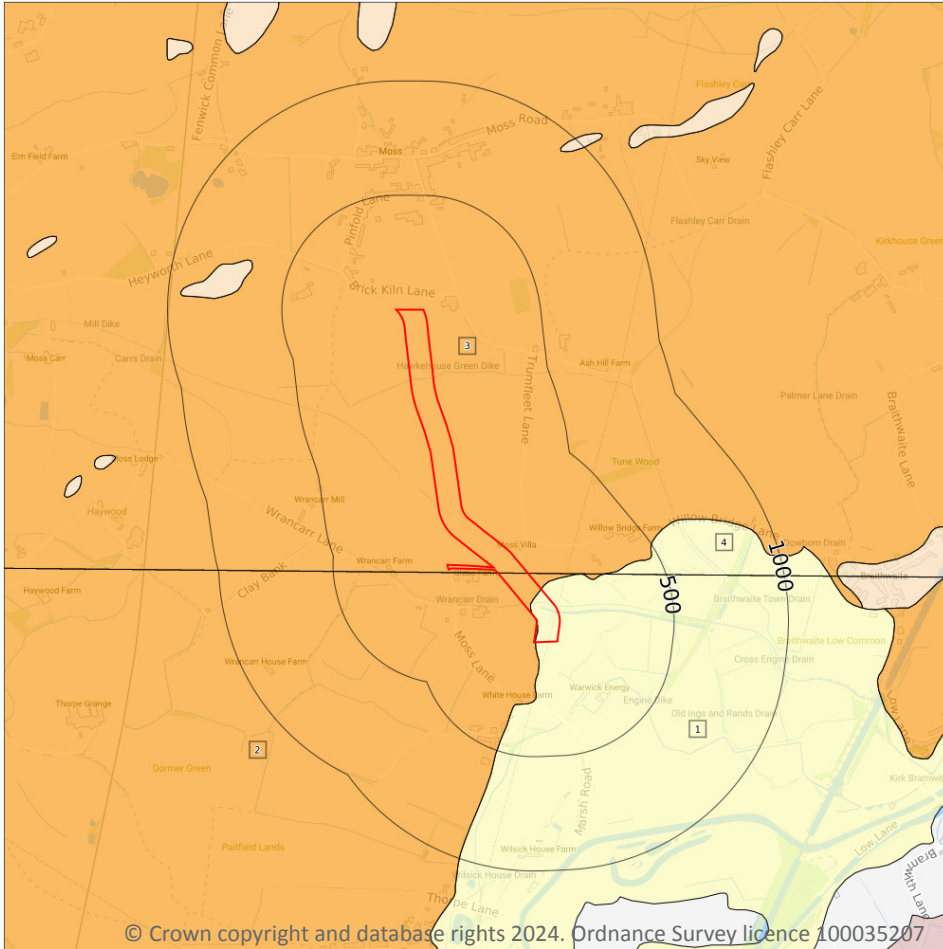
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



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

15.4 Superficial geology (50k)

Records within 500m

4

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 88](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	On site	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
3	On site	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
4	260m SE	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

3

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

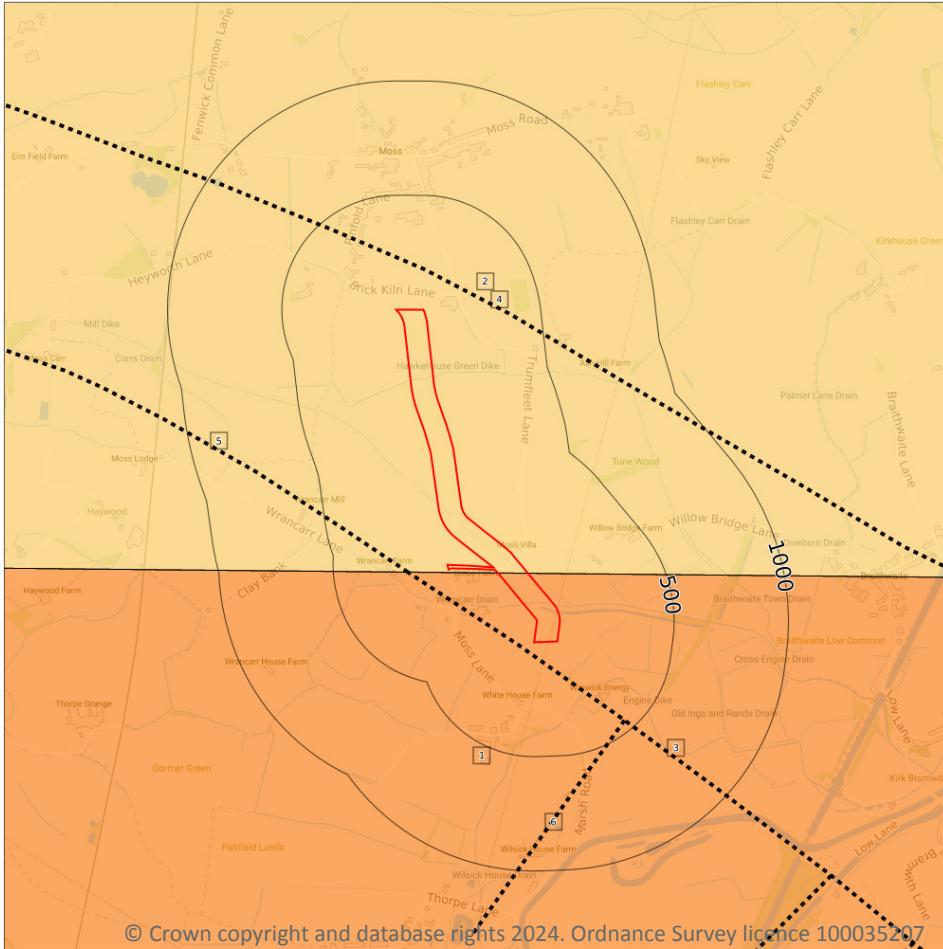
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



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

15.8 Bedrock geology (50k)

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 90](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	CHES-PESST	CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)	OLENEKIAN
2	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

4

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Moderate
On site	Mixed	High	High
On site	Mixed	High	High
13m S	Mixed	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

4

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.

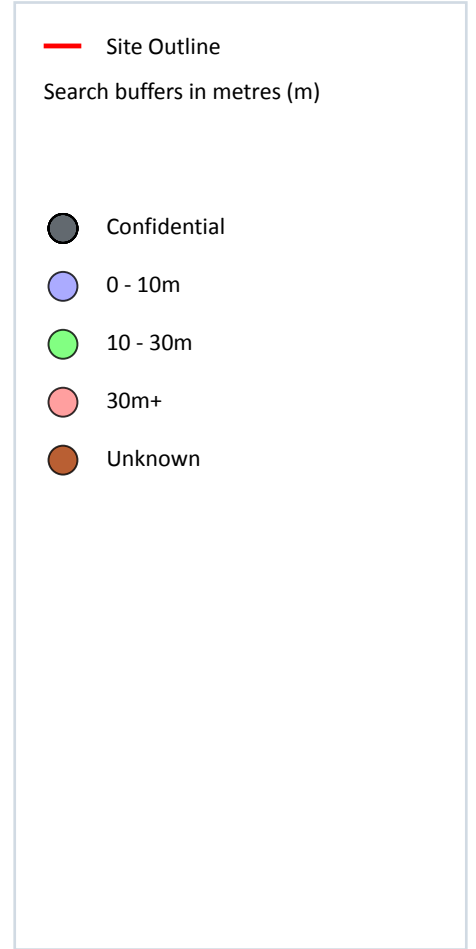
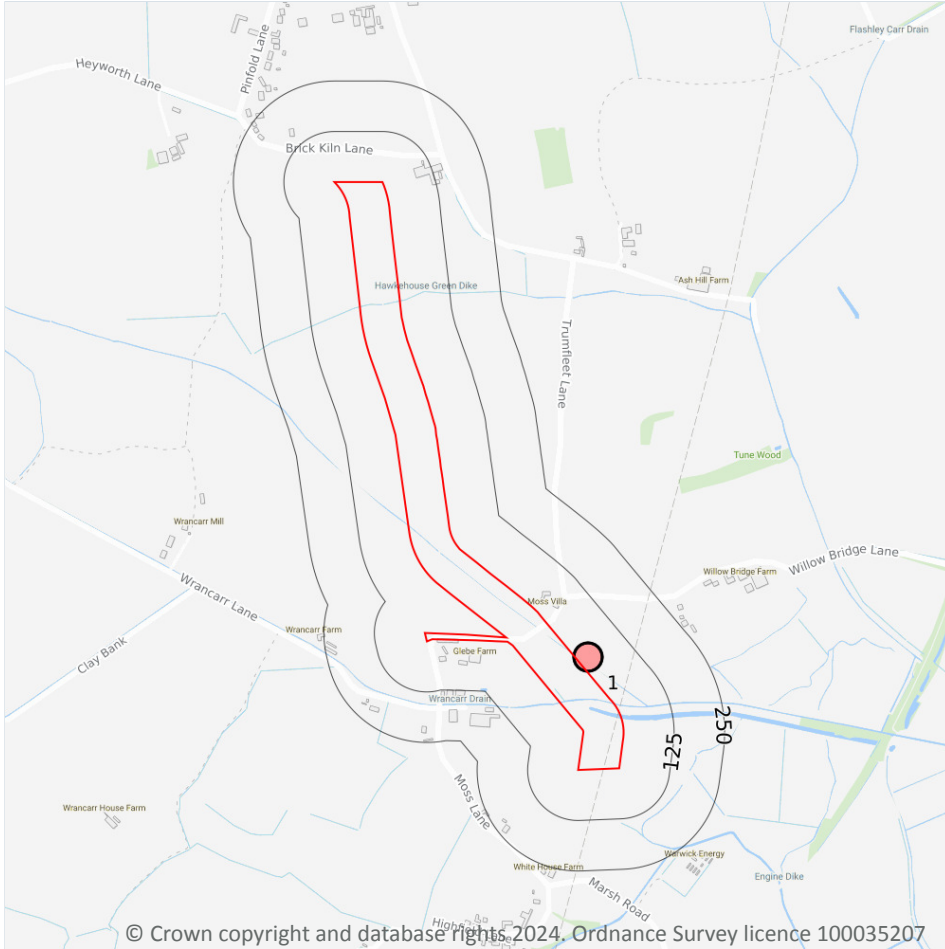
Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 90 >](#)

ID	Location	Category	Description
3	49m S	FAULT	Fault, inferred
4	159m N	FAULT	Fault, inferred
5	176m SW	FAULT	Fault, inferred
6	453m SE	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

1

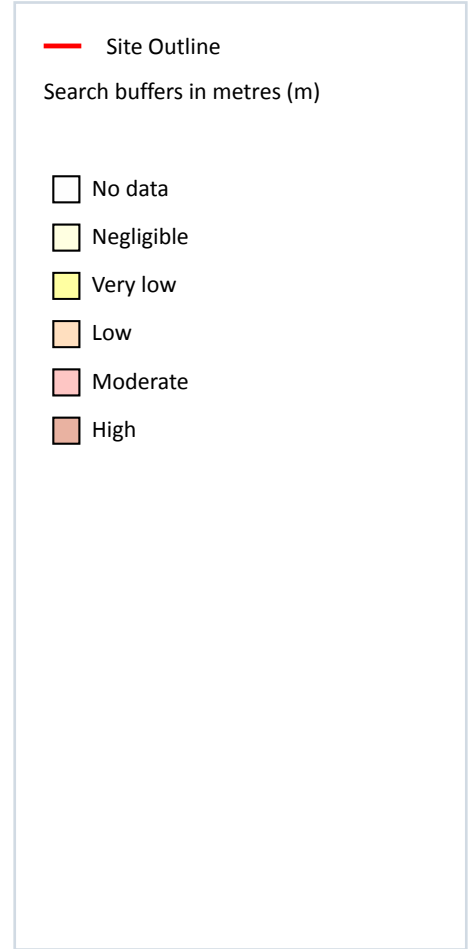
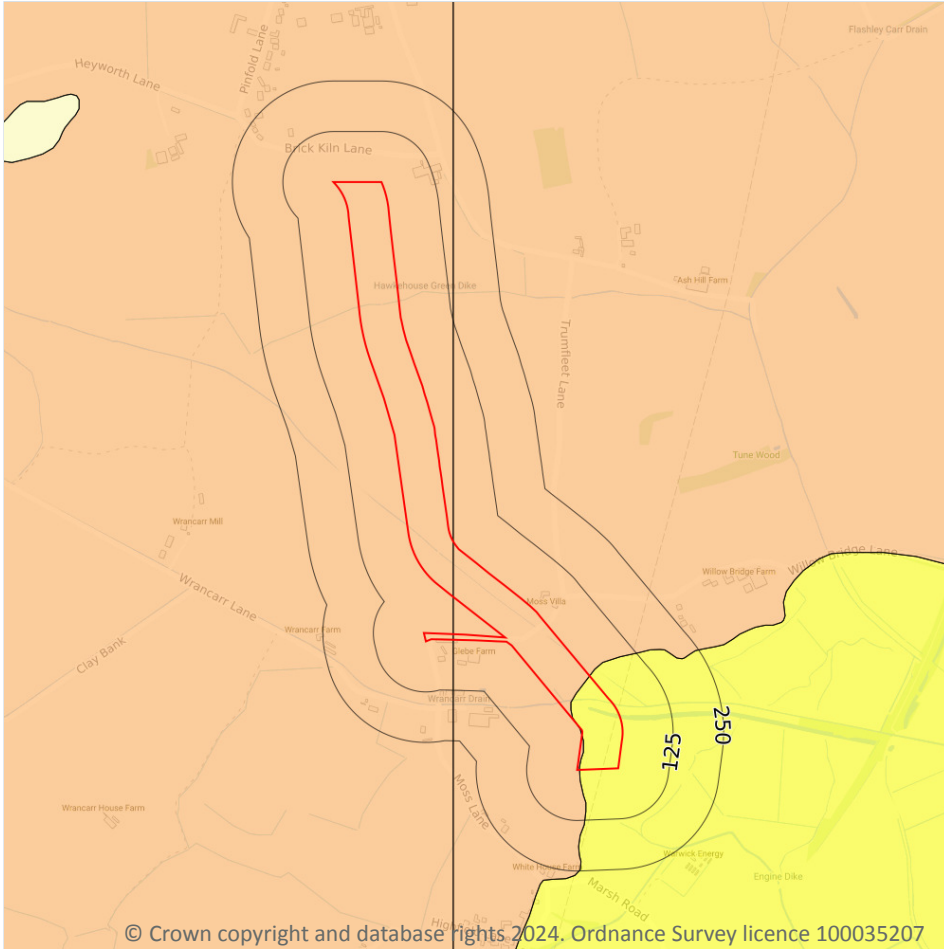
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several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

Features are displayed on the Boreholes map on [page 92](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	26m SE	460331 412459	TRUMFLEET 2	1071.68	N	121187 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

2

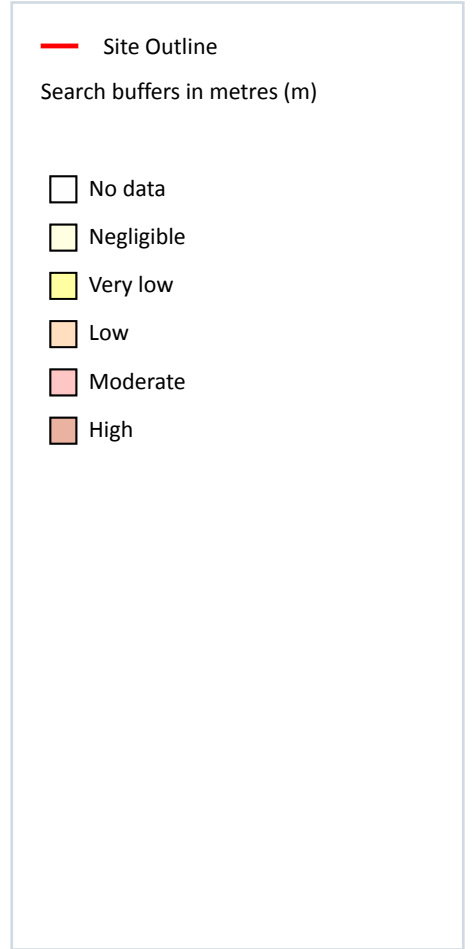
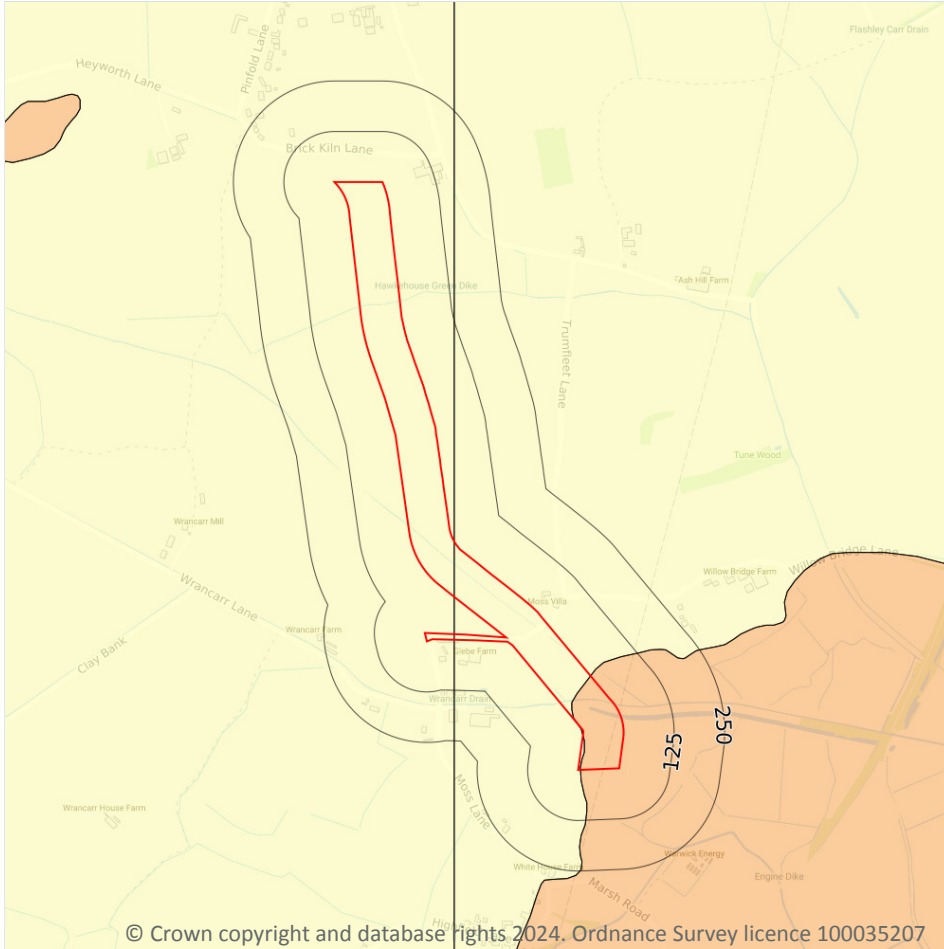
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 93 >](#)

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 94](#) >

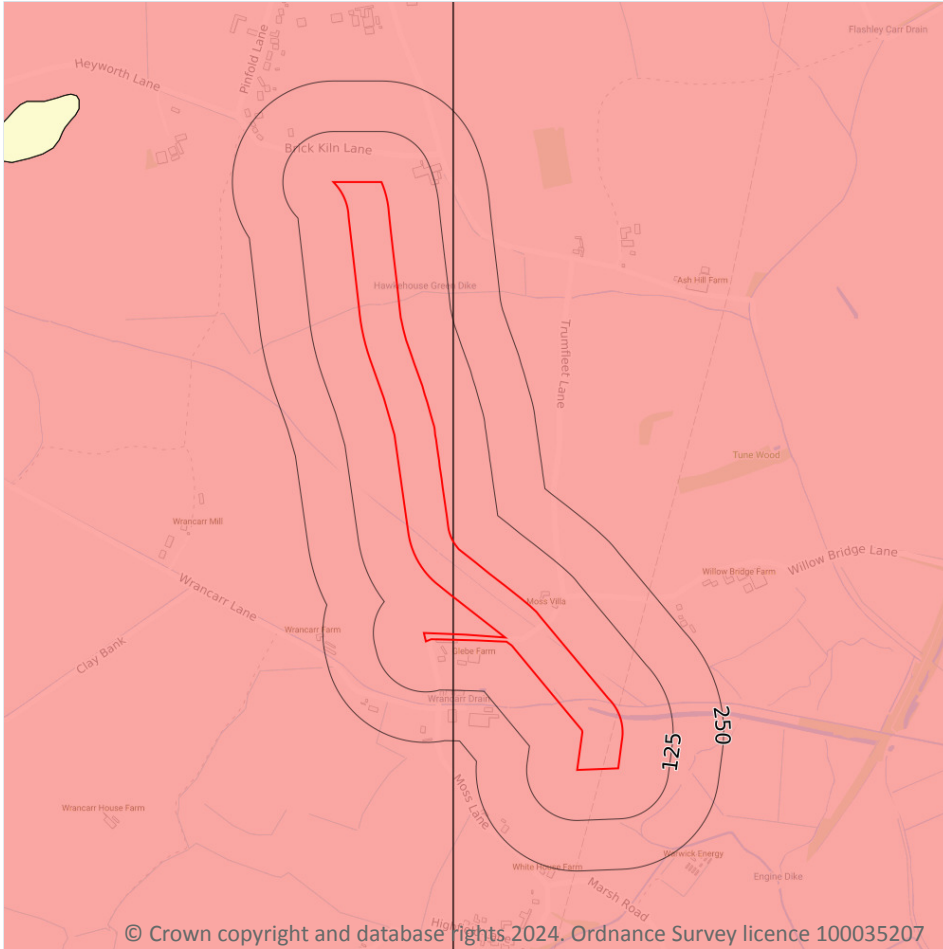
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

1

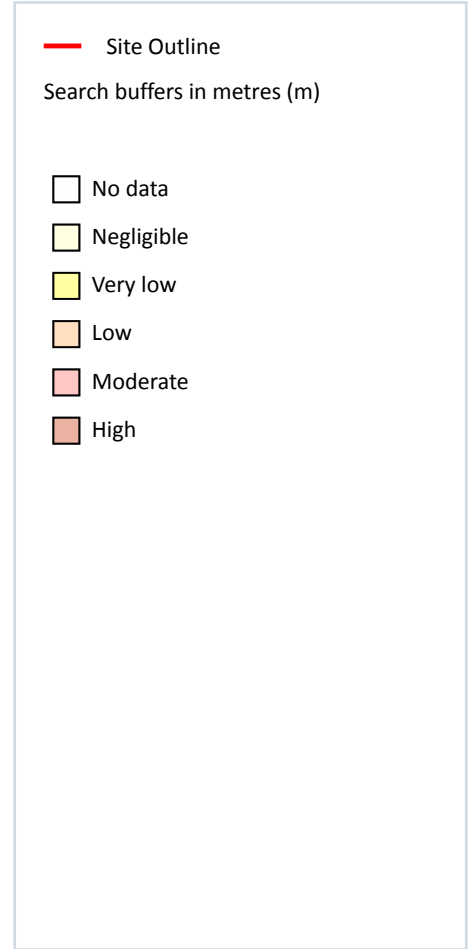
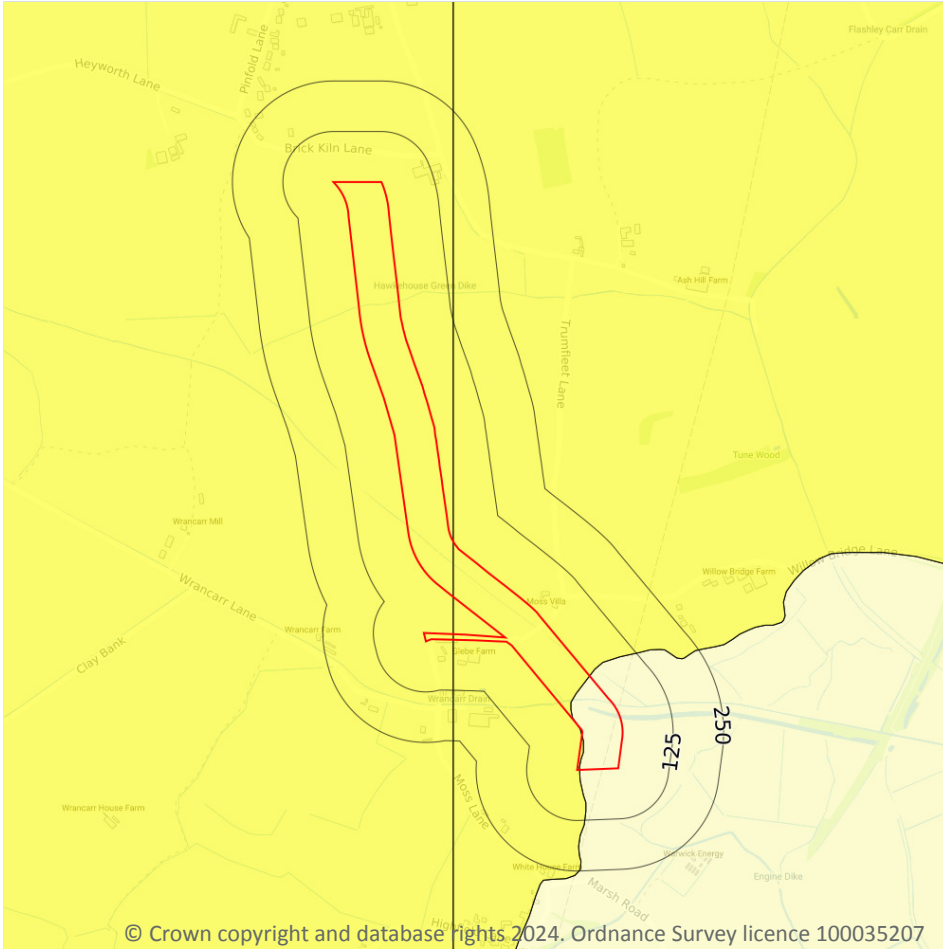
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

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

Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

2

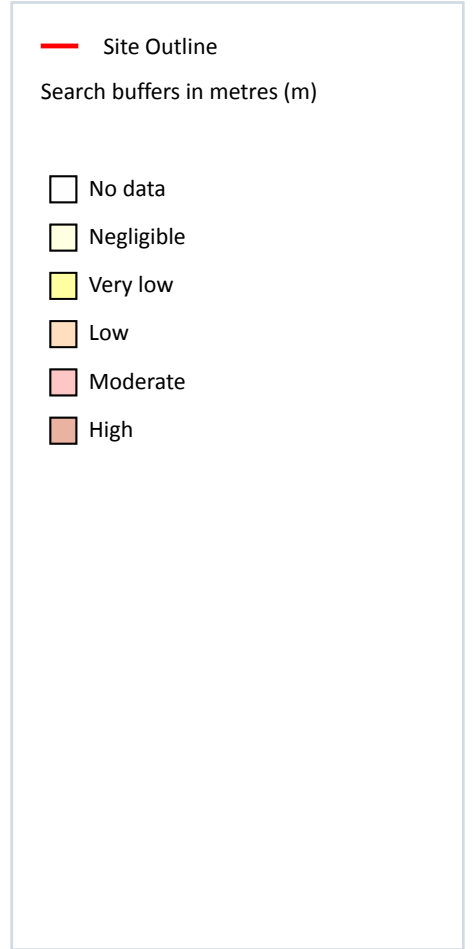
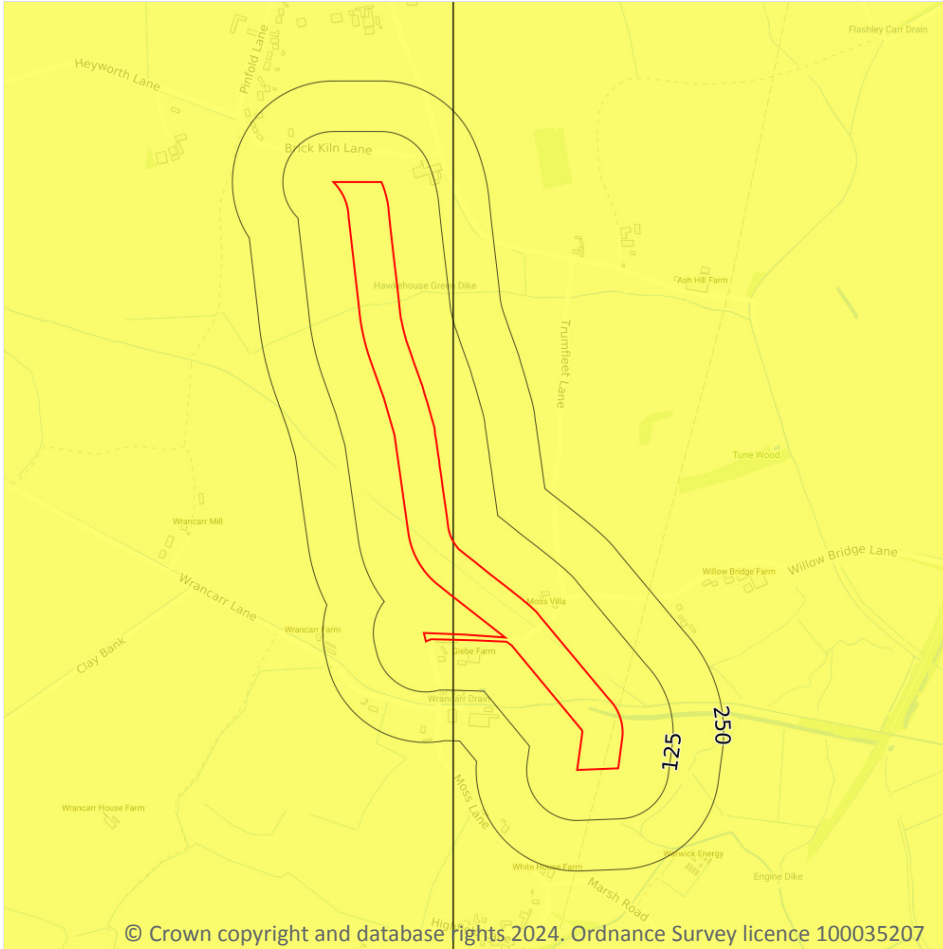
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

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

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



17.5 Landslides

Records within 50m

1

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

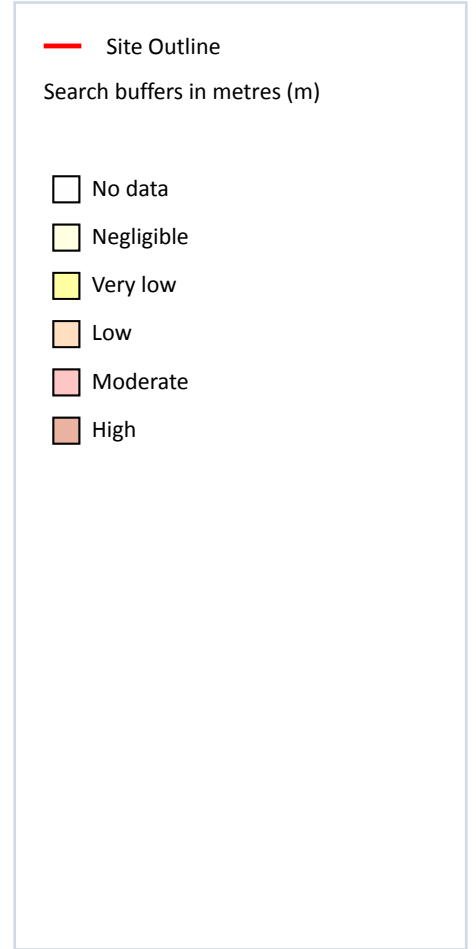
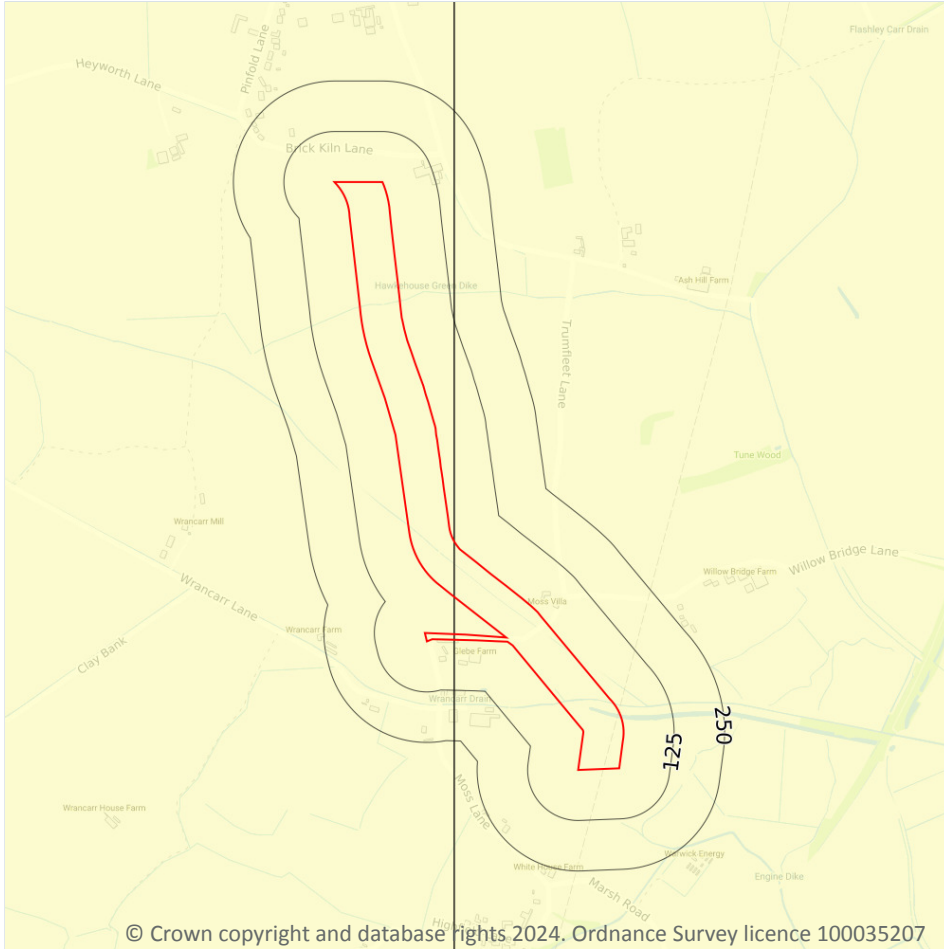
Features are displayed on the Natural ground subsidence - Landslides map on [page 98](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 99](#)

>

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.



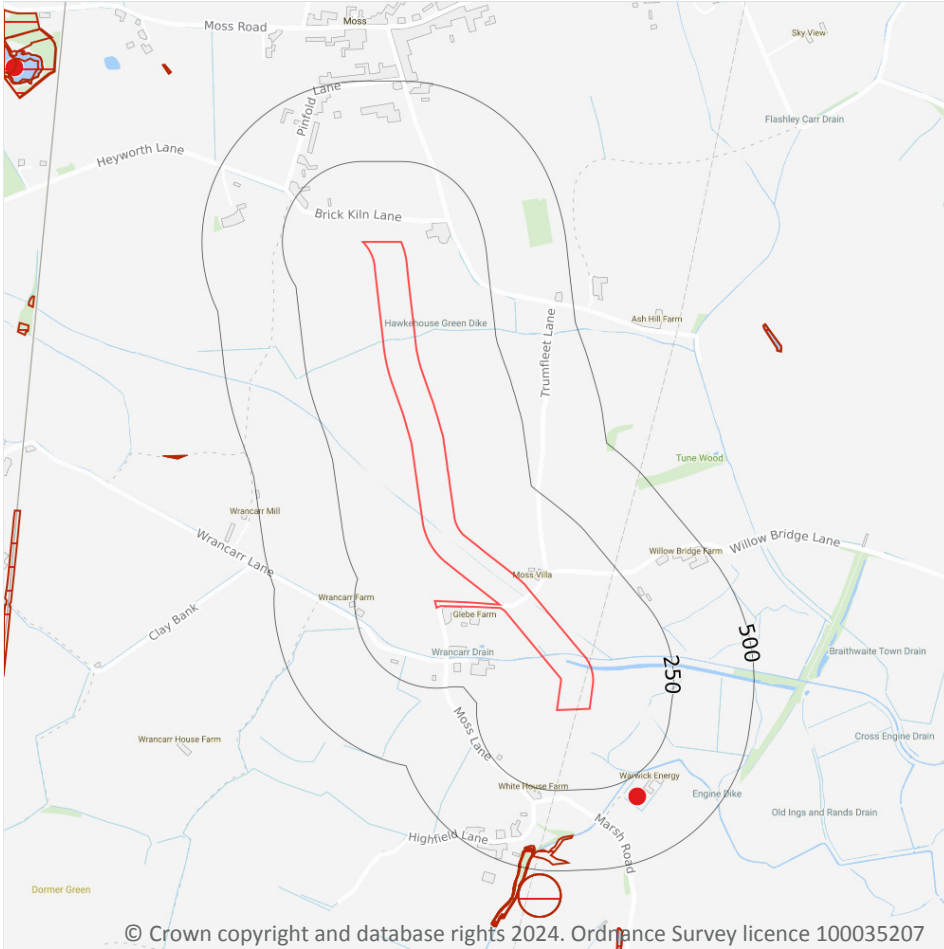
Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 12 January 2024

18 Mining and ground workings



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 101](#) >

ID	Location	Details	Description
1	309m SE	Name: Trumfleet Gasfield Address: Thorpe-in-Balne, DONCASTER, South Yorkshire Commodity: Natural Gas Status: Active	Type: Wellsite, or other surface plant, extracting liquid or gas. Working may be for brine, oil or natural gas Status description: Site which is actively extracting mineral products, or in the case of wharfs and rail depots, is actively handing minerals

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

0

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.

This data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

0

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

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

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.

19.5 National karst database

Records within 500m

0

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

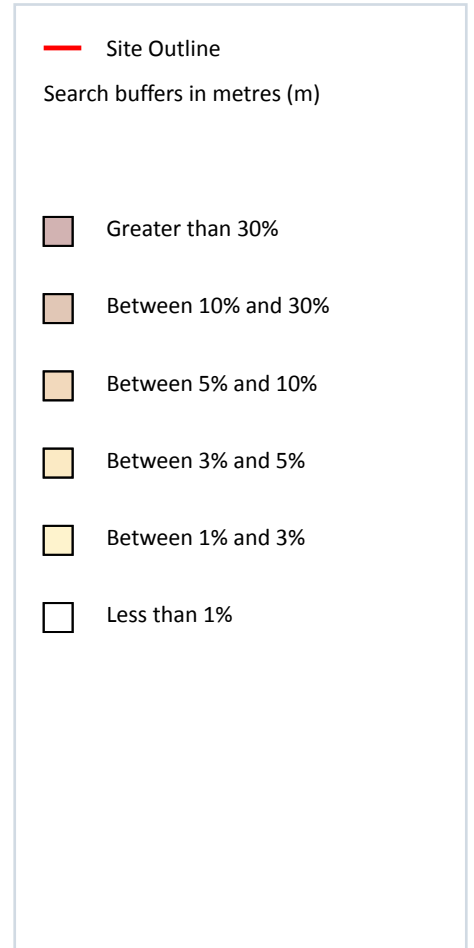
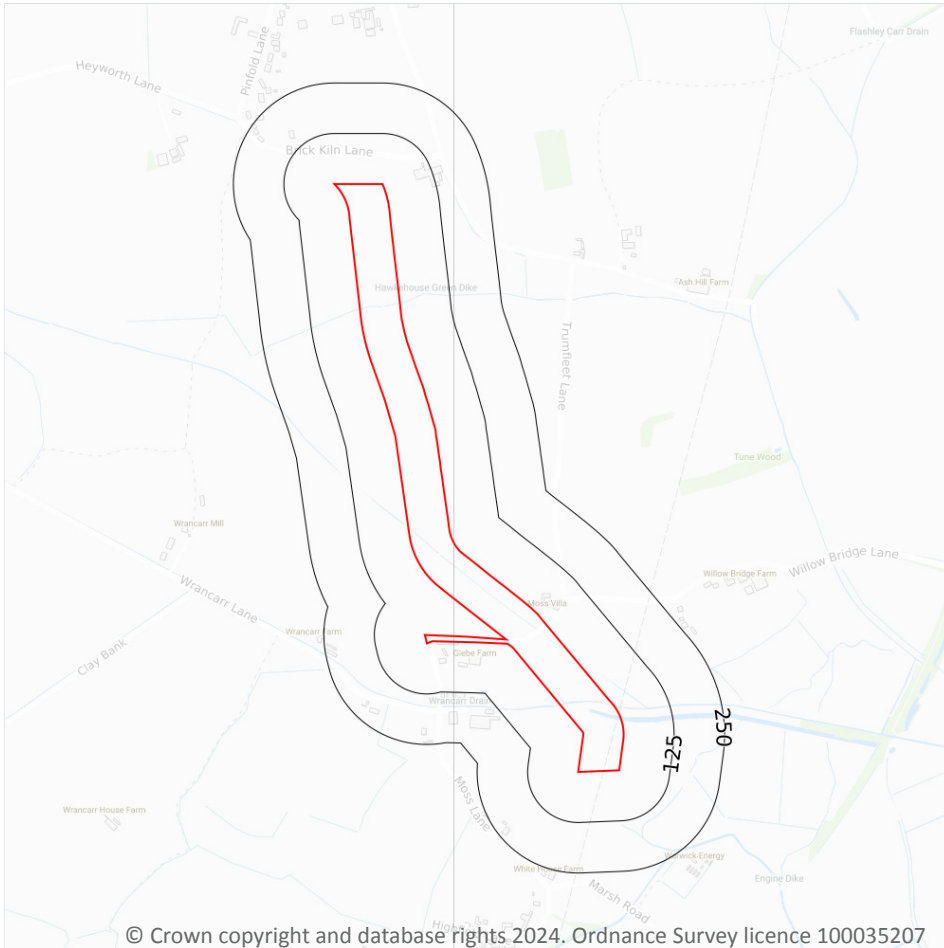
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

This data is sourced from the British Geological Survey.



20 Radon



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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 108 >](#)

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



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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

17

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
1m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
13m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
17m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
43m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
43m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
43m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
43m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

0

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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



This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

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



Fenwick

Order Details

Date: 12/01/2024
Your ref: Fenwick
Our Ref: GSIP-2024-14447-16721_C

Site Details

Location: 460363 411341
Area: 24.32 ha
Authority: [Doncaster Metropolitan Borough Council](#) ↗



[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

N/A: >10ha

groundsure.com/insightuserguide ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	1	3	5	0	-
15 >	1.2 >	Historical tanks >	0	0	2	0	-
15	1.3	Historical energy features	0	0	0	0	-
16	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
16	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
17 >	2.1 >	Historical industrial land uses >	3	4	10	0	-
18 >	2.2 >	Historical tanks >	0	0	3	0	-
19	2.3	Historical energy features	0	0	0	0	-
19	2.4	Historical petrol stations	0	0	0	0	-
19	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
20	3.1	Active or recent landfill	0	0	0	0	-
20	3.2	Historical landfill (BGS records)	0	0	0	0	-
21	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
21	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
21	3.5	Historical waste sites	0	0	0	0	-
21	3.6	Licensed waste sites	0	0	0	0	-
21 >	3.7 >	Waste exemptions >	0	0	12	79	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
30 >	4.1 >	Recent industrial land uses >	3	0	7	-	-
31	4.2	Current or recent petrol stations	0	0	0	0	-
31	4.3	Electricity cables	0	0	0	0	-
31	4.4	Gas pipelines	0	0	0	0	-
32	4.5	Sites determined as Contaminated Land	0	0	0	0	-



32	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
32	4.7	Regulated explosive sites	0	0	0	0	-
32	4.8	Hazardous substance storage/usage	0	0	0	0	-
32 >	4.9 >	<u>Historical licensed industrial activities (IPC) ></u>	0	4	0	0	-
33	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
33	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
34	4.12	Radioactive Substance Authorisations	0	0	0	0	-
34 >	4.13 >	<u>Licensed Discharges to controlled waters ></u>	0	0	0	1	-
34	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
34	4.15	Pollutant release to public sewer	0	0	0	0	-
35	4.16	List 1 Dangerous Substances	0	0	0	0	-
35	4.17	List 2 Dangerous Substances	0	0	0	0	-
35 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	1	0	0	2	-
36	4.19	Pollution inventory substances	0	0	0	0	-
36	4.20	Pollution inventory waste transfers	0	0	0	0	-
36	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
37 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
39 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
41 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
42	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
43	5.5	Groundwater vulnerability- local information	None (within 0m)				
44 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	1	0
45 >	5.7 >	<u>Surface water abstractions ></u>	0	1	11	3	6
50	5.8	Potable abstractions	0	0	0	0	0
50 >	5.9 >	<u>Source Protection Zones ></u>	1	1	0	0	-
50	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
51 >	6.1 >	<u>Water Network (OS MasterMap) ></u>	21	14	40	-	-



57 >	6.2 >	Surface water features >	1	3	27	-	-
58 >	6.3 >	WFD Surface water body catchments >	3	-	-	-	-
58 >	6.4 >	WFD Surface water bodies >	1	1	0	-	-
59 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
60 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
61 >	7.2 >	Historical Flood Events >	39	3	14	-	-
64 >	7.3 >	Flood Defences >	6	4	1	-	-
65 >	7.4 >	Areas Benefiting from Flood Defences >	2	1	1	-	-
65 >	7.5 >	Flood Storage Areas >	1	0	0	-	-
67 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
68 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
69 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
71 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
72	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
73	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
73	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
73	10.4	Special Protection Areas (SPA)	0	0	0	0	0
73	10.5	National Nature Reserves (NNR)	0	0	0	0	0
74	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
74	10.7	Designated Ancient Woodland	0	0	0	0	0
74	10.8	Biosphere Reserves	0	0	0	0	0
74	10.9	Forest Parks	0	0	0	0	0
75	10.10	Marine Conservation Zones	0	0	0	0	0
75 >	10.11 >	Green Belt >	0	0	0	0	1
75	10.12	Proposed Ramsar sites	0	0	0	0	0



75	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
76	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
76 >	10.15 >	Nitrate Sensitive Areas >	0	0	0	0	1
76 >	10.16 >	Nitrate Vulnerable Zones >	3	1	0	0	0
78 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
79	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
80	11.1	World Heritage Sites	0	0	0	-	-
81	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
81	11.3	National Parks	0	0	0	-	-
81 >	11.4 >	Listed Buildings >	0	0	2	-	-
82	11.5	Conservation Areas	0	0	0	-	-
82 >	11.6 >	Scheduled Ancient Monuments >	0	0	2	-	-
82	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
83 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
84	12.2	Open Access Land	0	0	0	-	-
84	12.3	Tree Felling Licences	0	0	0	-	-
84 >	12.4 >	Environmental Stewardship Schemes >	6	1	0	-	-
85 >	12.5 >	Countryside Stewardship Schemes >	1	3	2	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
86 >	13.1 >	Priority Habitat Inventory >	9	5	16	-	-
88 >	13.2 >	Habitat Networks >	9	1	4	-	-
88	13.3	Open Mosaic Habitat	0	0	0	-	-
89	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
90 >	14.1 >	10k Availability >	Identified (within 500m)				
91	14.2	Artificial and made ground (10k)	0	0	0	0	-
92 >	14.3 >	Superficial geology (10k) >	2	1	2	1	-



93	14.4	Landslip (10k)	0	0	0	0	-
94 >	14.5 >	Bedrock geology (10k) >	2	0	1	1	-
95 >	14.6 >	Bedrock faults and other linear features (10k) >	2	0	0	1	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
96 >	15.1 >	50k Availability >	Identified (within 500m)				
97	15.2	Artificial and made ground (50k)	0	0	0	0	-
97	15.3	Artificial ground permeability (50k)	0	0	-	-	-
98 >	15.4 >	Superficial geology (50k) >	2	0	0	3	-
99 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
99	15.6	Landslip (50k)	0	0	0	0	-
99	15.7	Landslip permeability (50k)	None (within 50m)				
100 >	15.8 >	Bedrock geology (50k) >	1	0	0	1	-
101 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
101 >	15.10 >	Bedrock faults and other linear features (50k) >	2	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
102 >	16.1 >	BGS Boreholes >	5	3	6	-	-
Page	Section	Natural ground subsidence >					
104 >	17.1 >	Shrink swell clays >	Low (within 50m)				
105 >	17.2 >	Running sands >	Low (within 50m)				
107 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
108 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
109 >	17.5 >	Landslides >	Very low (within 50m)				
110 >	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
112 >	18.1 >	BritPits >	0	0	1	0	-
113 >	18.2 >	Surface ground workings >	5	1	10	-	-
114	18.3	Underground workings	0	0	0	0	0
114	18.4	Underground mining extents	0	0	0	0	-
114	18.5	Historical Mineral Planning Areas	0	0	0	0	-

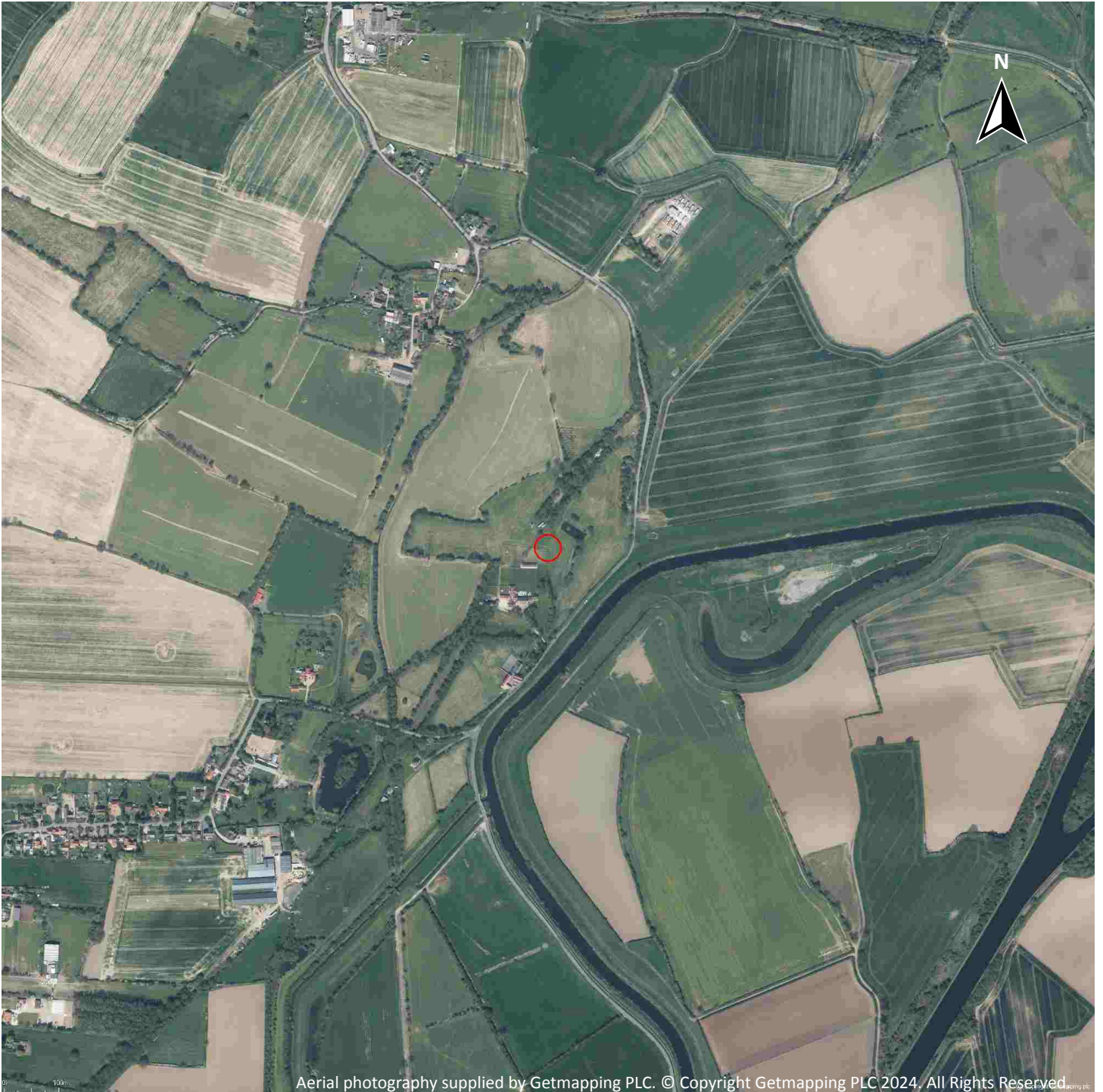


114	18.6	Non-coal mining	0	0	0	0	0
114	18.7	JPB mining areas	None (within 0m)				
115	18.8	The Coal Authority non-coal mining	0	0	0	0	-
115	18.9	Researched mining	0	0	0	0	-
115	18.10	Mining record office plans	0	0	0	0	-
115	18.11	BGS mine plans	0	0	0	0	-
116 >	18.12 >	Coal mining >	Identified (within 0m)				
116	18.13	Brine areas	None (within 0m)				
116	18.14	Gypsum areas	None (within 0m)				
116	18.15	Tin mining	None (within 0m)				
116	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
117	19.1	Natural cavities	0	0	0	0	-
117	19.2	Mining cavities	0	0	0	0	0
117	19.3	Reported recent incidents	0	0	0	0	-
117	19.4	Historical incidents	0	0	0	0	-
118	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
119 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
121 >	21.1 >	BGS Estimated Background Soil Chemistry >	8	2	-	-	-
122	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
122	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
123	22.1	Underground railways (London)	0	0	0	-	-
123	22.2	Underground railways (Non-London)	0	0	0	-	-
124	22.3	Railway tunnels	0	0	0	-	-
124 >	22.4 >	Historical railway and tunnel features >	0	0	4	-	-
124	22.5	Royal Mail tunnels	0	0	0	-	-



125 >	22.6 >	Historical railways >	1	0	0	-	-
125	22.7	Railways	0	0	0	-	-
125	22.8	Crossrail 1	0	0	0	0	-
125	22.9	Crossrail 2	0	0	0	0	-
125	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 19/04/2021

Site Area: 24.32ha



Contact us with any questions at:

info@groundsure.com

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Date: 12 January 2024

Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 24.32ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024

Recent site history - 2013 aerial photograph



Capture Date: 07/06/2013

Site Area: 24.32ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024

Recent site history - 2009 aerial photograph



Capture Date: 11/09/2009

Site Area: 24.32ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024



Recent site history - 1999 aerial photograph



Capture Date: 03/05/1999

Site Area: 24.32ha



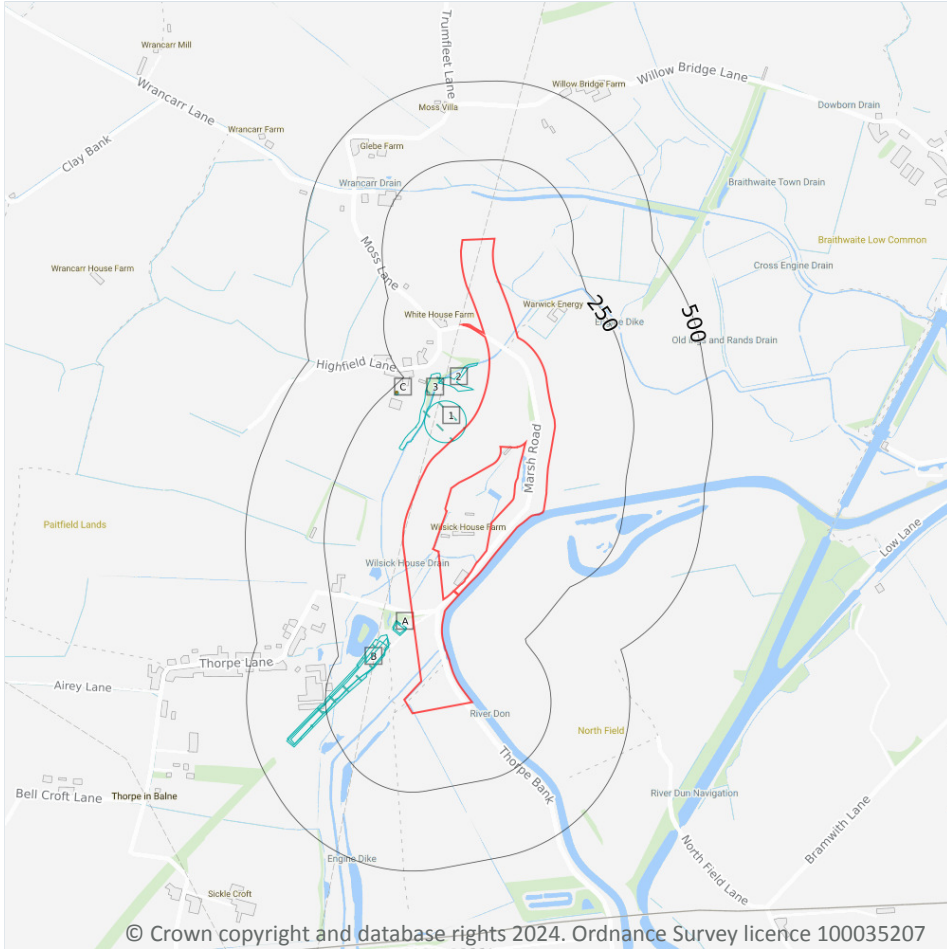
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info@groundsure.com

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Date: 12 January 2024

1 Past land use



Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks

1.1 Historical industrial land uses

Records within 500m **9**

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Pit	1951 - 1983	1517053

ID	Location	Land use	Dates present	Group ID
A	24m SW	Goods Station	1933 - 1948	1512091
A	27m SW	Goods Station	1951	1475254
2	37m N	Unspecified Ground Workings	1904	1414550
B	86m SW	Railway Sidings	1948	1515667
3	87m NW	Unspecified Pit	1904 - 1948	1488834
B	88m SW	Railway Sidings	1951	1540187
B	92m SW	Railway Sidings	1933	1552000
C	223m NW	Unspecified Tank	1967 - 1983	1544671

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

2

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
C	227m NW	Unspecified Tank	1961 - 1993	240209
C	228m NW	Unspecified Tank	1984	243568

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

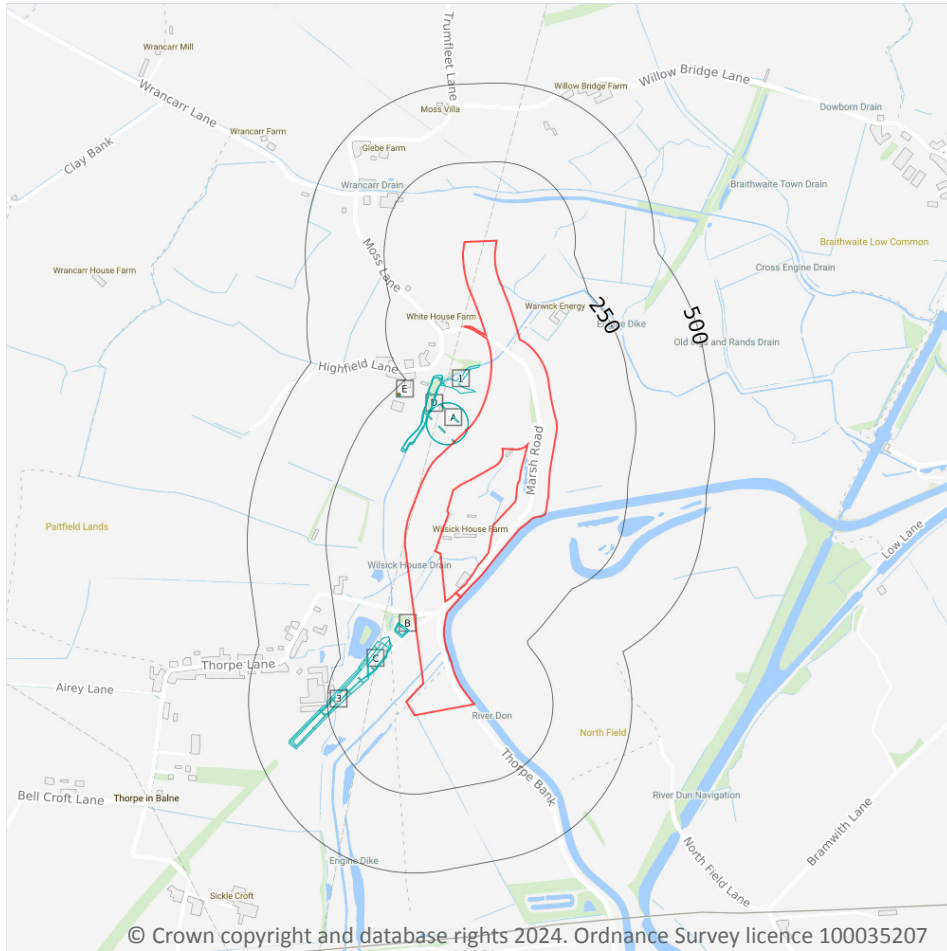
Records within 500m

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

2.1 Historical industrial land uses

Records within 500m

17

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 17 >](#)

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Pit	1967	1517053
A	On site	Unspecified Pit	1951	1517053
A	On site	Unspecified Pit	1983	1517053

ID	Location	Land Use	Date	Group ID
B	24m SW	Goods Station	1948	1512091
B	25m SW	Goods Station	1933	1512091
B	27m SW	Goods Station	1951	1475254
1	37m N	Unspecified Ground Workings	1904	1414550
C	86m SW	Railway Sidings	1948	1515667
D	87m NW	Unspecified Pit	1933	1488834
D	87m NW	Unspecified Pit	1933	1488834
D	87m NW	Unspecified Pit	1948	1488834
D	87m NW	Unspecified Pit	1904	1488834
2	88m SW	Railway Sidings	1951	1540187
C	92m SW	Railway Sidings	1933	1552000
3	140m SW	Railway Sidings	1951	1540187
E	223m NW	Unspecified Tank	1967	1544671
E	223m NW	Unspecified Tank	1983	1544671

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

3

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 17 >](#)

ID	Location	Land Use	Date	Group ID
E	227m NW	Unspecified Tank	1993	240209
E	228m NW	Unspecified Tank	1961	240209
E	228m NW	Unspecified Tank	1984	243568

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

0

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'.

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

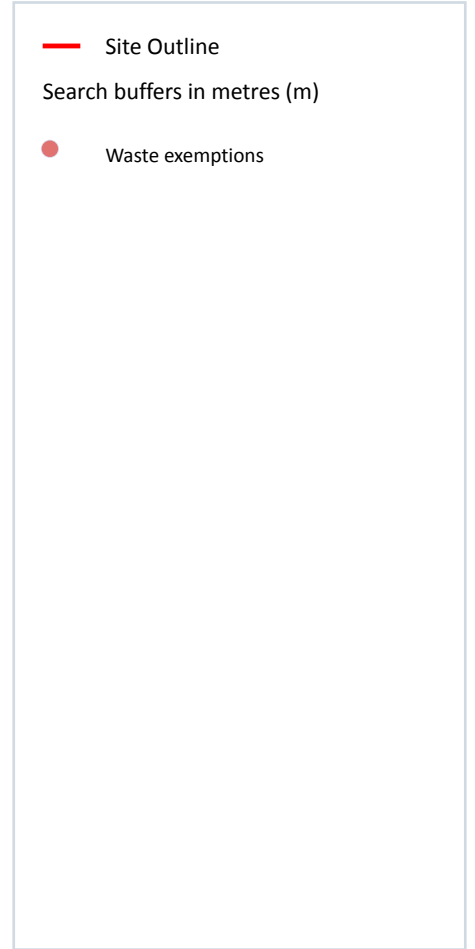
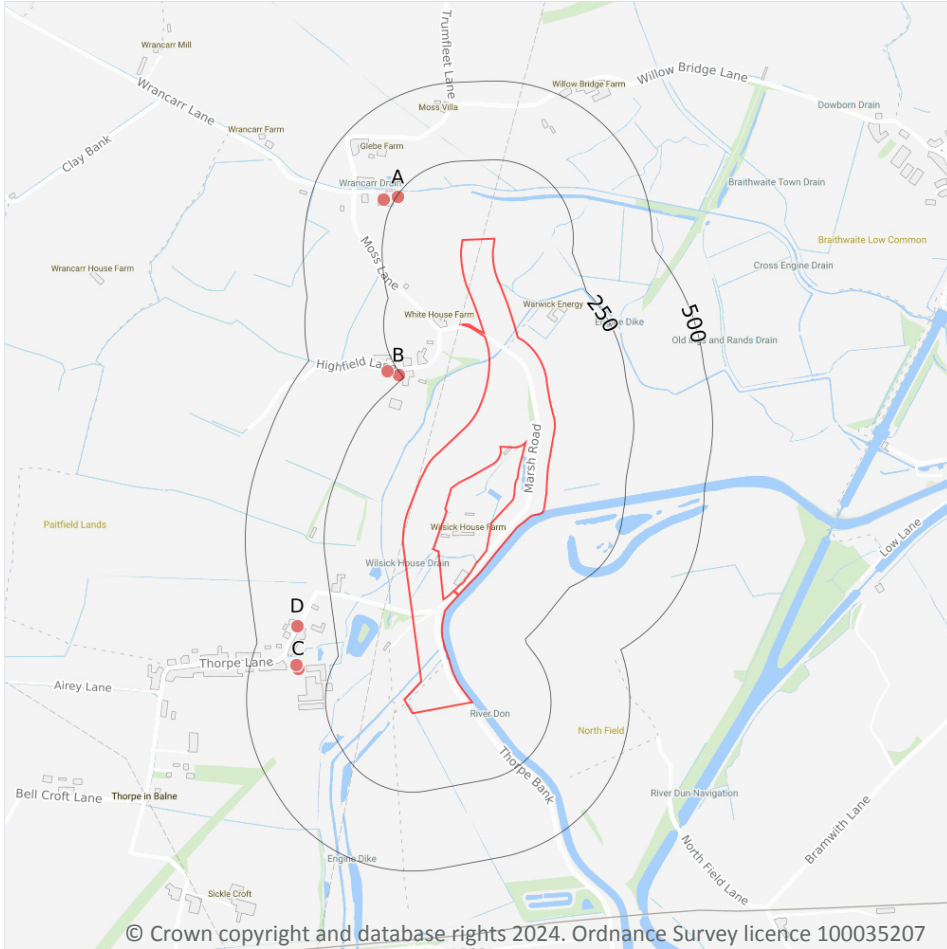
0

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'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

0

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

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

3.5 Historical waste sites

Records within 500m

0

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

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

3.6 Licensed waste sites

Records within 500m

0

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

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

3.7 Waste exemptions

Records within 500m

91

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 20 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	245m N	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX340724	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
A	245m N	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX340724	Storing waste exemption	On a farm	Storage of waste in a secure place
A	245m N	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX340724	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	245m N	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX340724	Disposing of waste exemption	On a farm	Burning waste in the open
A	245m N	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX216711	Storing waste exemption	On a Farm	Storage of waste in a secure place
A	245m N	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX216711	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
A	245m N	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX069772	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	245m N	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX069772	Storing waste exemption	On a farm	Storage of waste in a secure place
A	245m N	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX216711	Disposing of waste exemption	On a Farm	Burning waste in the open
A	245m N	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX216711	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
A	245m N	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX069772	Disposing of waste exemption	On a farm	Burning waste in the open
A	245m N	TRUMFLEET GRANGE, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0DW	WEX069772	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX329988	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX329988	Using waste exemption	On a farm	Spreading waste on non- agricultural land to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX329988	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX329988	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX329988	Disposing of waste exemption	On a farm	Burning waste in the open
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX205328	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX205328	Using waste exemption	On a Farm	Spreading waste on non-agricultural land to confer benefit
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX205328	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX205328	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX045205	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX045205	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX045205	Using waste exemption	On a farm	Spreading waste on non-agricultural land to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX045205	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX205328	Disposing of waste exemption	On a Farm	Burning waste in the open
B	260m NW	LEEK FARM, HIGHFIELD LANE, TRUMFLEET, ASKERN, DONCASTER, DN6 0DU	WEX045205	Disposing of waste exemption	On a farm	Burning waste in the open
A	281m N	Trumfleet Grange Trumfleet Lane DONCASTER South Yorkshire DN6 0DW	EPR/AH0776Q F/A002	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
A	281m N	Trumfleet Grange Trumfleet Lane DONCASTER South Yorkshire DN6 0DW	EPR/AH0776Q F/A002	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
B	281m NW	Leek Farm Highfield Lane DONCASTER South Yorkshire DN6 0DU	EPR/VE5988M C/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
B	281m NW	Leek Farm Highfield Lane DONCASTER South Yorkshire DN6 0DU	EPR/VE5988M C/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	281m NW	Leek Farm Highfield Lane DONCASTER South Yorkshire DN6 0DU	EPR/VE5988M C/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
B	281m NW	Leek Farm Highfield Lane DONCASTER South Yorkshire DN6 0DU	EPR/VE5988M C/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX377946	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising



ID	Location	Site	Reference	Category	Sub-Category	Description
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX377946	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX101829	Using waste exemption	On a farm	Use of waste in construction
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX106618	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX106618	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Storing waste exemption	On a farm	Storage of waste in secure containers
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX049918	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX049918	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance



ID	Location	Site	Reference	Category	Sub-Category	Description
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX049918	Using waste exemption	On a farm	Use of waste for a specified purpose
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Using waste exemption	On a farm	Use of waste for a specified purpose
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Disposing of waste exemption	On a farm	Burning waste in the open
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX049918	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX248662	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	351m SW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX248662	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	358m SW	-	WEX334039	Using waste exemption	On a farm	Use of waste in construction
C	358m SW	-	WEX334039	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	358m SW	-	WEX334039	Using waste exemption	On a farm	Use of waste for a specified purpose
C	358m SW	-	WEX334039	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
C	358m SW	-	WEX334039	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste



ID	Location	Site	Reference	Category	Sub-Category	Description
C	358m SW	-	WEX334039	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
C	358m SW	-	WEX334039	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	358m SW	-	WEX334039	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	358m SW	-	WEX334039	Storing waste exemption	On a farm	Storage of waste in secure containers
C	358m SW	-	WEX334039	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	358m SW	-	WEX334039	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
C	358m SW	-	WEX334039	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	358m SW	-	WEX334039	Disposing of waste exemption	On a farm	Burning waste in the open
C	358m SW	-	WEX205825	Using waste exemption	On a Farm	Use of waste for a specified purpose
C	358m SW	-	WEX205825	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
C	358m SW	-	WEX205825	Storing waste exemption	On a Farm	Storage of waste in secure containers
C	358m SW	-	WEX205825	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
C	358m SW	-	WEX205825	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	358m SW	-	WEX205825	Treating waste exemption	On a Farm	Preparatory treatments (baling, sorting, shredding etc)



ID	Location	Site	Reference	Category	Sub-Category	Description
C	358m SW	-	WEX205825	Treating waste exemption	On a Farm	Cleaning, washing, spraying or coating relevant waste
C	358m SW	-	WEX205825	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
C	358m SW	-	WEX205825	Using waste exemption	On a Farm	Use of waste in construction
C	358m SW	-	WEX205825	Disposing of waste exemption	On a Farm	Burning waste in the open
C	358m SW	-	WEX205825	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	358m SW	-	WEX205825	Treating waste exemption	On a Farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
C	358m SW	-	WEX205825	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
D	368m SW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
D	368m SW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Treating waste exemption	Agricultural Waste Only	Cleaning, washing, spraying or coating relevant waste
D	368m SW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Treating waste exemption	Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
D	368m SW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	368m SW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Using waste exemption	Agricultural Waste Only	Spreading of plant matter to confer benefit
D	368m SW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
D	368m SW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice

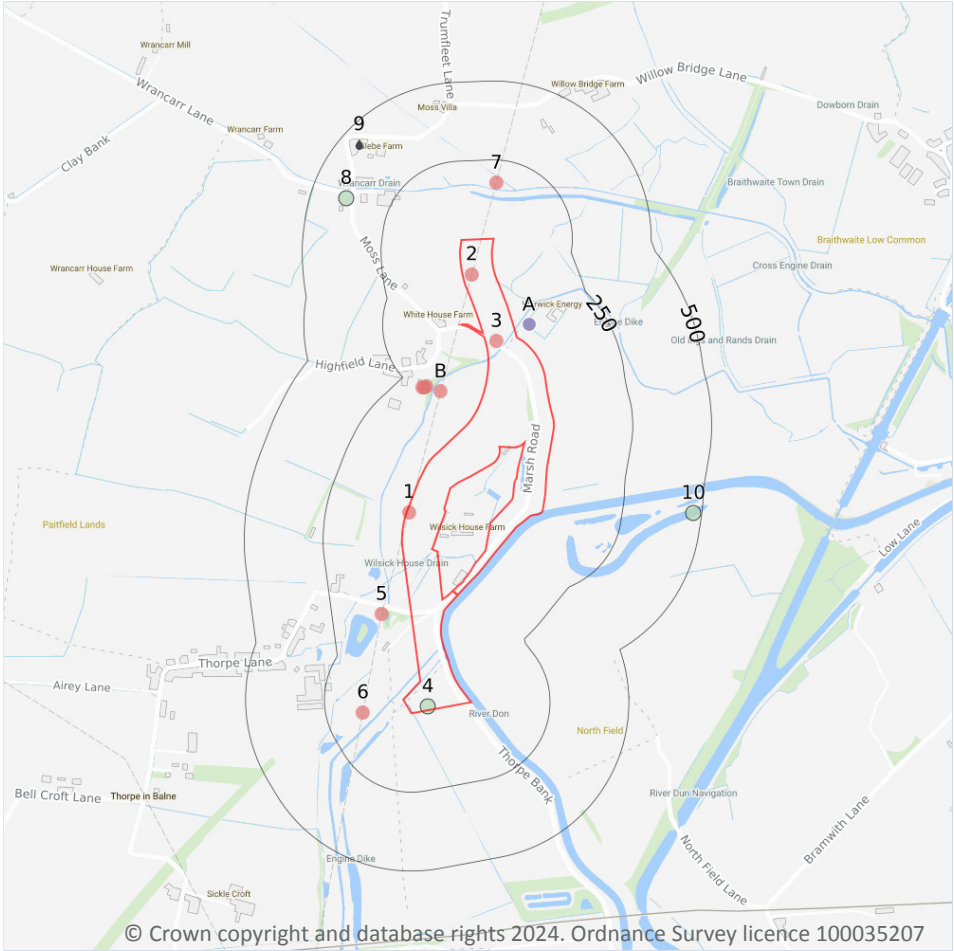


ID	Location	Site	Reference	Category	Sub-Category	Description
D	368m SW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
D	368m SW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit

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

4.1 Recent industrial land uses

Records within 250m **10**

Current potentially contaminative industrial sites.

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

ID	Location	Company	Address	Activity	Category
1	On site	Pylon	South Yorkshire, DN6	Electrical Features	Infrastructure and Facilities
2	On site	Pylon	South Yorkshire, DN6	Electrical Features	Infrastructure and Facilities
3	On site	Pit Bridge	South Yorkshire, DN6	Unspecified Quarries Or Mines	Extractive Industries



ID	Location	Company	Address	Activity	Category
5	94m SW	Pylon	South Yorkshire, DN6	Electrical Features	Infrastructure and Facilities
B	130m NW	Pylon	South Yorkshire, DN6	Electrical Features	Infrastructure and Facilities
6	134m SW	Pylon	South Yorkshire, DN6	Electrical Features	Infrastructure and Facilities
7	177m N	Pylon	South Yorkshire, DN6	Electrical Features	Infrastructure and Facilities
B	178m NW	Silo	South Yorkshire, DN6	Hoppers and Silos	Farming
B	179m NW	Silo	South Yorkshire, DN6	Hoppers and Silos	Farming
B	184m NW	Silo	South Yorkshire, DN6	Hoppers and Silos	Farming

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.5 Sites determined as Contaminated Land

Records within 500m

0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

4

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

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



ID	Location	Details	
A	47m N	Operator: Warwick Energy Exploration and Production Ltd Address: Trumfleet A Wellsite, Marsh Road, Trumfleet, Doncaster, South Yorkshire, DN6 0DT Process: Gasification And Associated Processes Permit Number: AZ7084	Original Permit Number: IPCAPP Date Approved: 23-12-1997 Effective Date: 6-1-1998 Status: Superseded By Variation
A	47m N	Operator: Warwick Energy Exploration and Production Ltd Address: Trumfleet A Wellsite, Marsh Road, Trumfleet, Doncaster, South Yorkshire, DN6 0DT Process: Gasification And Associated Processes Permit Number: BE1194	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
A	47m N	Operator: Warwick Energy Exploration and Production Ltd Address: Trumfleet A Wellsite, Marsh Road, Trumfleet, Doncaster, South Yorkshire, DN6 0DT Process: Gasification And Associated Processes Permit Number: BI5957	Original Permit Number: IPCMINVAR Date Approved: 26-6-2000 Effective Date: 1-7-2000 Status: Superseded By Variation
A	47m N	Operator: Warwick Energy Exploration and Production Ltd Address: Trumfleet A Wellsite, Marsh Road, Trumfleet, Doncaster, South Yorkshire, DN6 0DT Process: Gasification And Associated Processes Permit Number: BY8616	Original Permit Number: IPCMINVAR Date Approved: 7-2-2005 Effective Date: 7-2-2005 Status: Revoked

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

0

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

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

1

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

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

ID	Location	Address	Details	
9	444m N	GLEBE FARM, MOSS, DONCASTER, SOUTH YORKS, DN6 0DW	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: S/P/1833 Permit Version: 1 Receiving Water: TRIB OF DON	Status: UNDETERMINED 1961 APPLICATION Issue date: 29/05/1963 Effective Date: 29/05/1963 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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



4.16 List 1 Dangerous Substances

Records within 500m

0

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

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

4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

3

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

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

ID	Location	Details	
4	On site	Incident Date: 17/03/2003 Incident Identification: 143483 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
8	389m NW	Incident Date: 07/02/2003 Incident Identification: 135487 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Vegetable Cuttings and Deposits	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
10	473m E	Incident Date: 30/07/2018 Incident Identification: 1638880 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

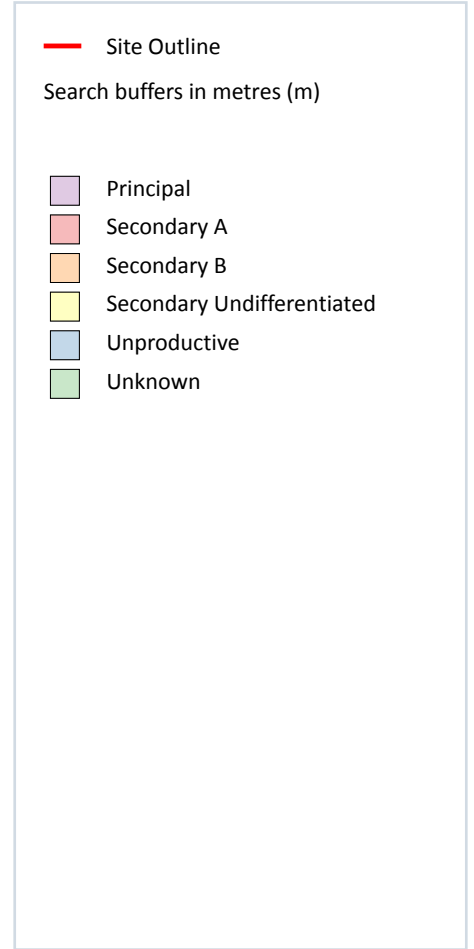
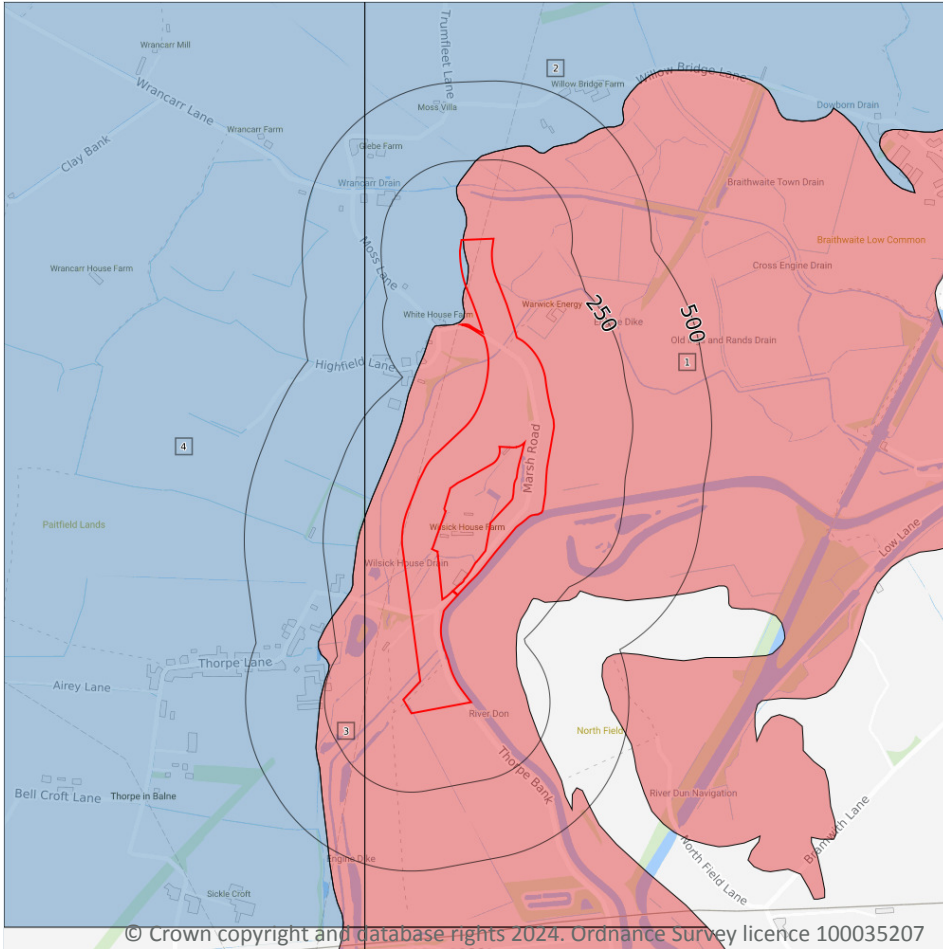
Records within 500m

0

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

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

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

4

Aquifer status of groundwater held within superficial geology.

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

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

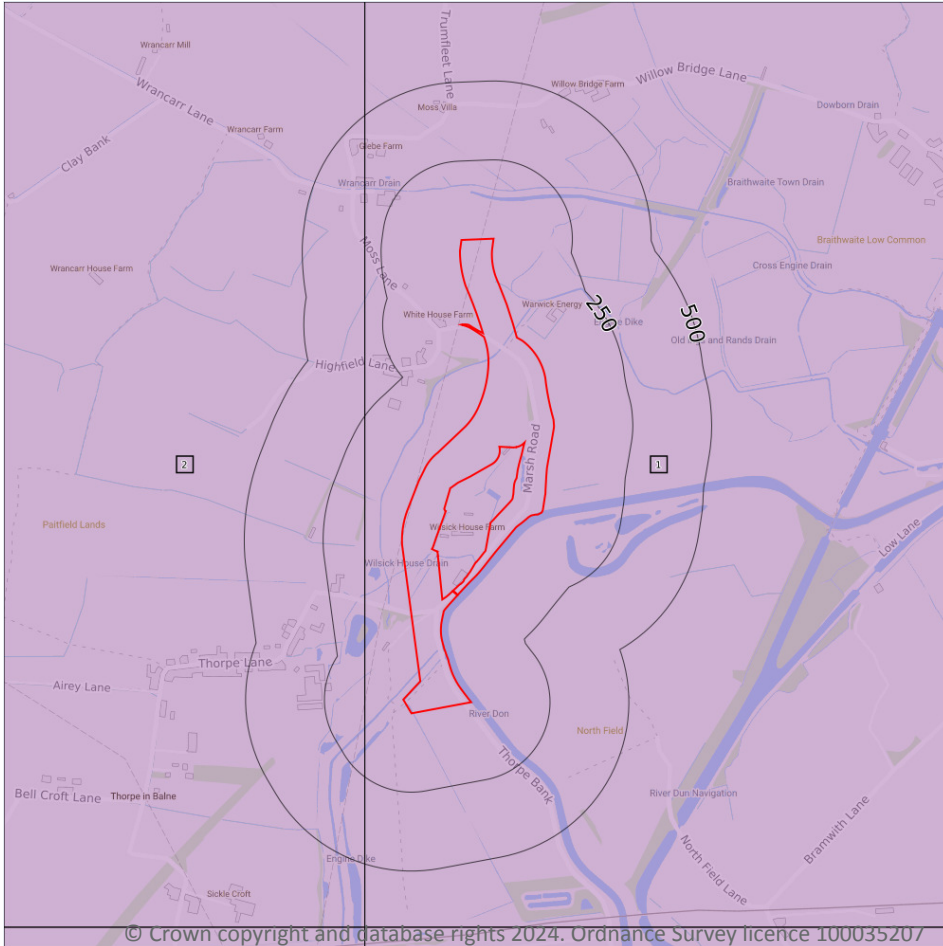


ID	Location	Designation	Description
3	118m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	125m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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



Bedrock aquifer



— Site Outline

Search buffers in metres (m)

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

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5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

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

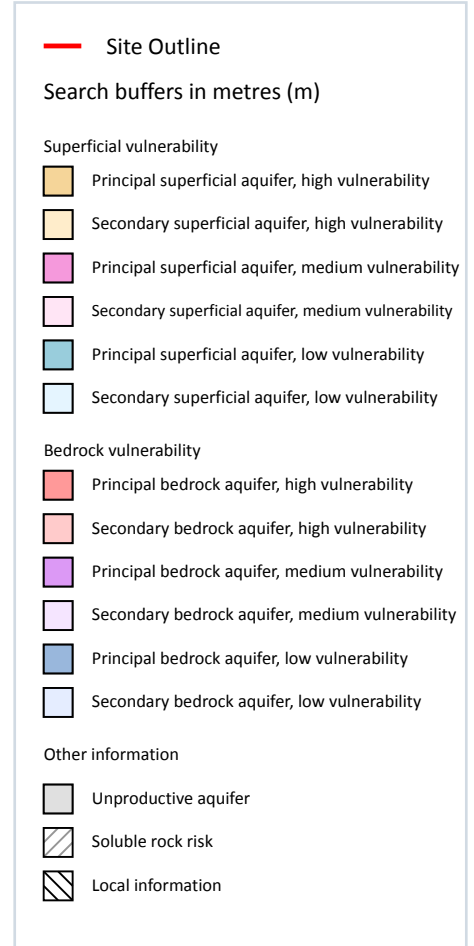
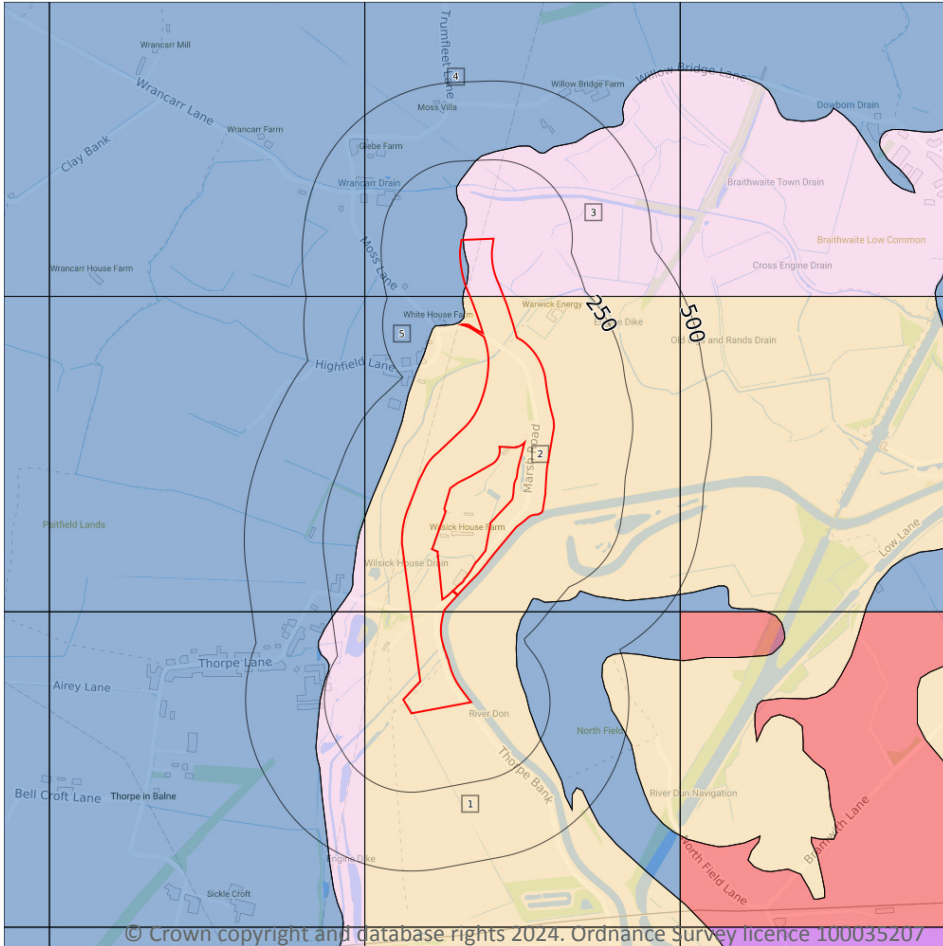
ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	118m SW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers



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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

5

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

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

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

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
3	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
4	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
5	9m N	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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



5.5 Groundwater vulnerability- local information

Records on site

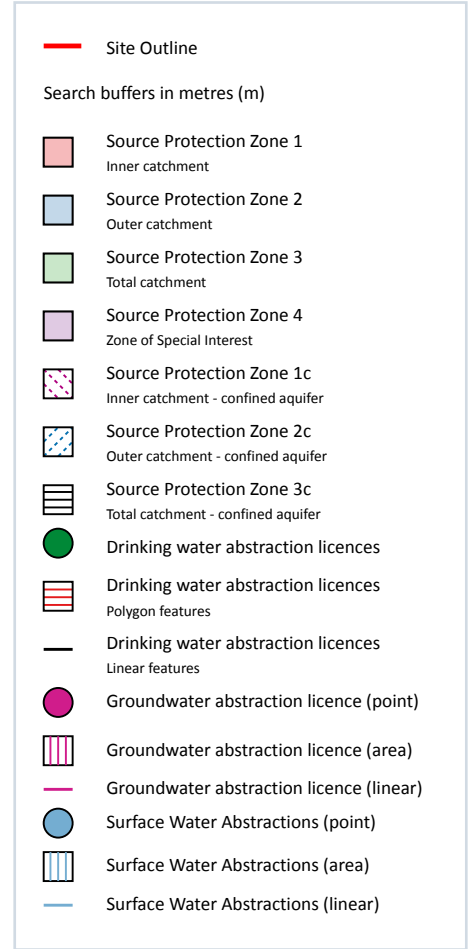
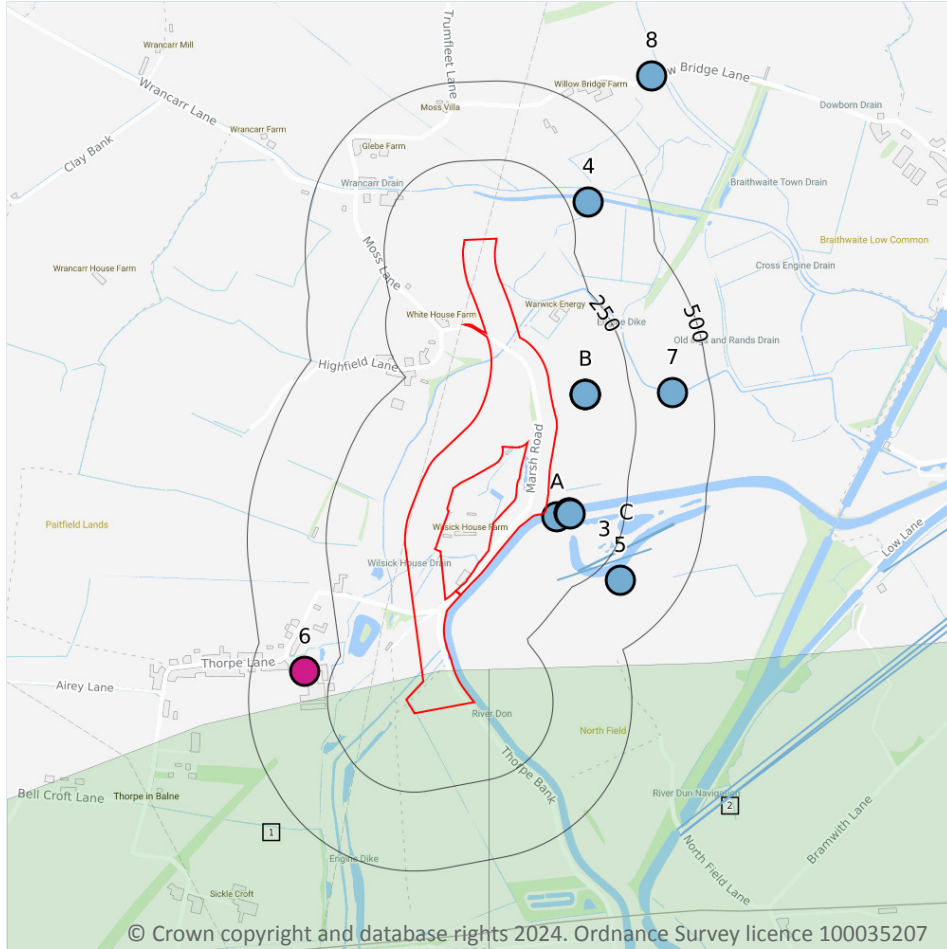
0

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

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



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

1

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 44](#) >

ID	Location	Details	
6	333m SW	Status: Historical Licence No: 2/27/09/184 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE-SHERWOOD SANDSTONE-ELMSTONE STONE FARM Data Type: Point Name: PARKIN-COATES Easting: 459800 Northing: 410810	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/01/2002 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 19/01/2002 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

21

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 44 >](#)

ID	Location	Details	
A	41m SE	Status: Historical Licence No: 2/27/09/170 Details: Transfer between Sources (Pre Water Act 2003) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460600 Northing: 411300	Annual Volume (m ³): 57662 Max Daily Volume (m ³): 1531.2 Original Application No: - Original Start Date: 11/07/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 01/04/2006 Version End Date: -
A	75m SE	Status: Active Licence No: 2/27/09/199/R01 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460639 Northing: 411314	Annual Volume (m ³): 57622 Max Daily Volume (m ³): 1531.2 Original Application No: NPS/WR/036780 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 3 Version Start Date: 23/08/2021 Version End Date: -



ID	Location	Details	
A	75m SE	Status: Historical Licence No: 2/27/09/199 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460639 Northing: 411314	Annual Volume (m ³): 57662 Max Daily Volume (m ³): 1531.2 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
A	76m SE	Status: Historical Licence No: 2/27/09/199 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460640 Northing: 411310	Annual Volume (m ³): 57662 Max Daily Volume (m ³): 1531.2 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
B	108m NE	Status: Historical Licence No: 2/27/09/174 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/10/1998 Expiry Date: 31/08/2002 Issue No: 100 Version Start Date: 21/10/1998 Version End Date: -
B	108m NE	Status: Historical Licence No: 2/27/09/188 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 24/03/2003 Expiry Date: 31/08/2009 Issue No: 1 Version Start Date: 24/03/2003 Version End Date: -
B	108m NE	Status: Historical Licence No: 2/27/09/210 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 01/06/2009 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/06/2009 Version End Date: -



ID	Location	Details	
B	108m NE	Status: Historical Licence No: 2/27/09/210/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 01/04/2017 Version End Date: -
3	200m SE	Status: Historical Licence No: 2/27/09/171 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON OLD COURSE Data Type: Line Name: LEONARD PASHLEY & SON Easting: 460600 Northing: 411100	Annual Volume (m ³): 52420 Max Daily Volume (m ³): 1392 Original Application No: - Original Start Date: 11/07/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 11/07/1997 Version End Date: -
C	213m SE	Status: Active Licence No: 2/27/09/200/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON OLD COURSE Data Type: Line Name: LEONARD PASHLEY & SON Easting: 460667 Northing: 411129	Annual Volume (m ³): 52420 Max Daily Volume (m ³): 1392 Original Application No: NPS/WR/036304 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 2 Version Start Date: 23/08/2021 Version End Date: -
C	213m SE	Status: Historical Licence No: 2/27/09/200 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON OLD COURSE Data Type: Line Name: LEONARD PASHLEY & SON Easting: 460667 Northing: 411129	Annual Volume (m ³): 52420 Max Daily Volume (m ³): 1392 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
C	214m SE	Status: Historical Licence No: 2/27/09/200 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON OLD COURSE Data Type: Line Name: LEONARD PASHLEY & SON Easting: 460670 Northing: 411130	Annual Volume (m ³): 52420 Max Daily Volume (m ³): 1392 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -



ID	Location	Details	
4	314m N	Status: Historical Licence No: 2/27/09/159 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: WRANCARR DRAIN Data Type: Point Name: THOMAS Easting: 460700 Northing: 412300	Annual Volume (m ³): 2250 Max Daily Volume (m ³): 250 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/08/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
5	321m SE	Status: Active Licence No: 2/27/09/065 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON/OLD RIVER CHANNEL Data Type: Point Name: N L DURDY & SON LTD Easting: 460800 Northing: 411100	Annual Volume (m ³): 15138 Max Daily Volume (m ³): 727.36 Original Application No: 2476 Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -
7	377m E	Status: Active Licence No: 2/27/09/210/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN AT KIRK BRAMWITH Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460966 Northing: 411695	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: NPS/WR/036307 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 2 Version Start Date: 23/08/2021 Version End Date: -
8	713m NE	Status: Historical Licence No: 2/27/09/159 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: BRAITHWAITE DRAIN Data Type: Point Name: THOMAS Easting: 460900 Northing: 412700	Annual Volume (m ³): 2250 Max Daily Volume (m ³): 250 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/08/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
D	759m SE	Status: Active Licence No: 2/27/09/197/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION-SOUTH BRAMWITH Data Type: Line Name: Canal and River Trust Easting: 460980 Northing: 410309	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 514 Original Application No: NPS/WR/021594 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 01/04/2017 Version End Date: -



ID	Location	Details	
D	778m SE	Status: Historical Licence No: 2/27/09/136 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION-SOUTH BRAMWITH Data Type: Line Name: BRITISH WATERWAYS Easting: 460990 Northing: 410290	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 513.69 Original Application No: - Original Start Date: 24/11/1987 Expiry Date: 30/09/2006 Issue No: 101 Version Start Date: 14/07/2004 Version End Date: -
D	778m SE	Status: Historical Licence No: 2/27/09/197 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION-SOUTH BRAMWITH Data Type: Line Name: Canal and River Trust Easting: 460990 Northing: 410290	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 513.69 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 2 Version Start Date: 21/01/2008 Version End Date: -
D	781m SE	Status: Historical Licence No: 2/27/09/136 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION Data Type: Line Name: BRITISH WATERWAYS Easting: 461000 Northing: 410300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/11/1987 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 16/04/1992 Version End Date: -
9	1088m E	Status: Active Licence No: NE/027/0009/030 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: STAINFORTH AND KEADBY CANAL Data Type: Line Name: Canal and River Trust Easting: 461635 Northing: 411126	Annual Volume (m ³): 20000 Max Daily Volume (m ³): 800 Original Application No: NPS/WR/02988 Original Start Date: 08/03/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 08/03/2019 Version End Date: -

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



5.8 Potable abstractions

Records within 2000m

0

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

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

5.9 Source Protection Zones

Records within 500m

2

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on [page 44 >](#)

ID	Location	Type	Description
1	On site	3	Total catchment
2	46m S	3	Total catchment

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

5.10 Source Protection Zones (confined aquifer)

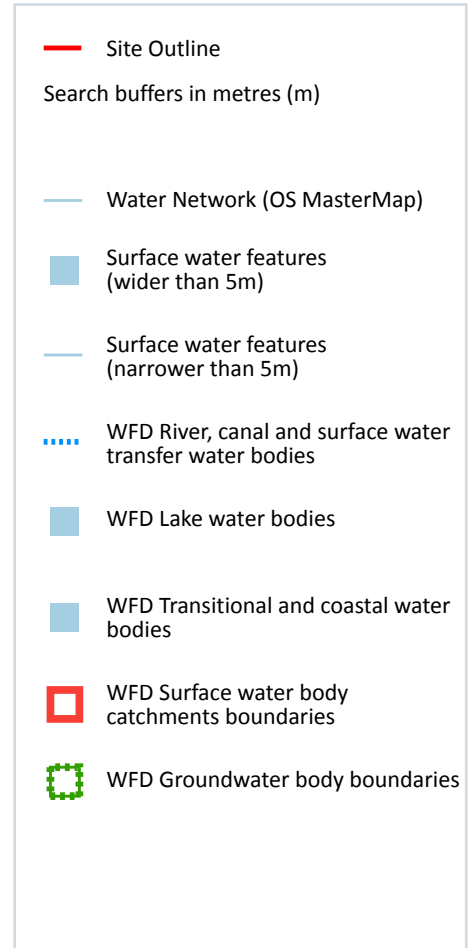
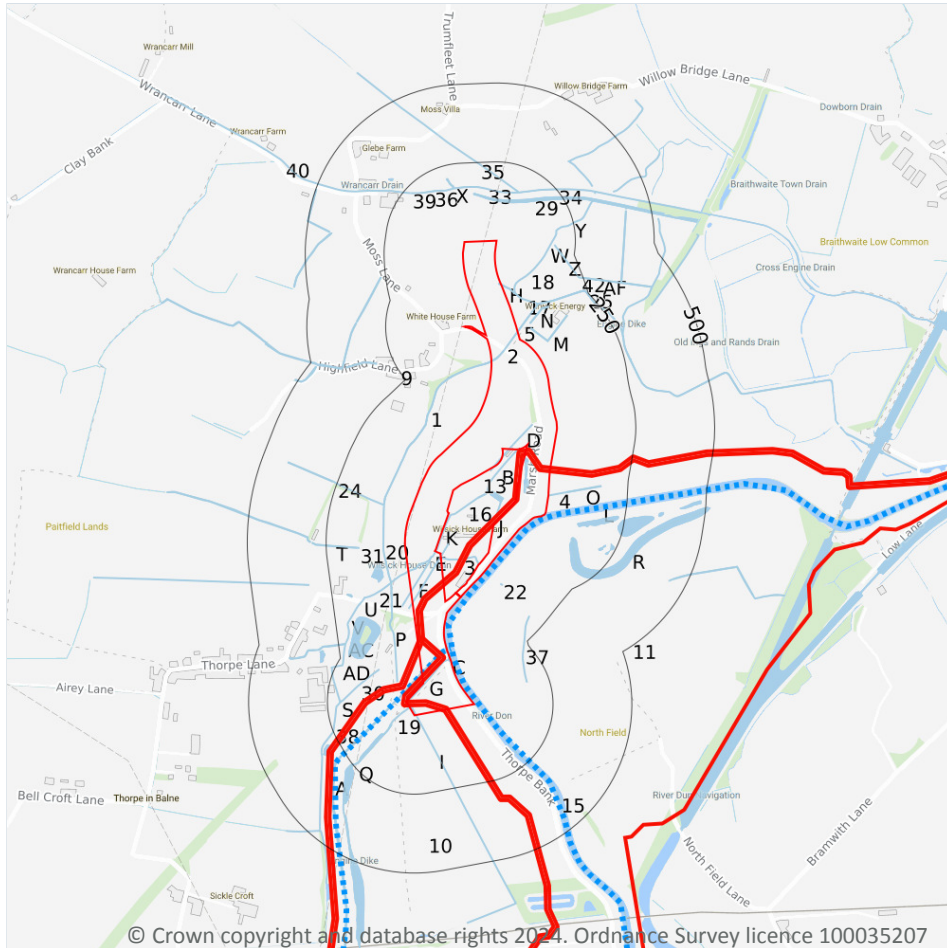
Records within 500m

0

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

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

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m

75

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 51](#) >

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

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorpe Marsh Drain
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorpe Marsh Drain
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
E	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain



ID	Location	Type of water feature	Ground level	Permanence	Name
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
J	1m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	2m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
E	3m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	6m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	8m SE	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Don
15	10m S	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Don



ID	Location	Type of water feature	Ground level	Permanence	Name
C	10m S	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Don
16	18m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
J	31m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
17	31m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
18	31m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
19	37m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Engine Dike
M	42m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	45m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	56m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
20	58m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
F	58m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
P	58m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
21	59m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain



ID	Location	Type of water feature	Ground level	Permanence	Name
J	61m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
22	62m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	New Ings Drain
Q	77m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
24	86m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
25	87m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
R	114m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
29	127m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	132m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Side Cutting Drain
31	144m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	151m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
33	155m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wrancarr Drain
U	155m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
W	159m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
V	160m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
34	167m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wrancarr Drain
35	167m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mill Dike
36	172m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wrancarr Drain
X	172m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	174m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	174m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
37	181m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	New Ings Drain
Z	184m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	187m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
38	209m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Side Cutting Drain
S	209m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
S	210m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain



ID	Location	Type of water feature	Ground level	Permanence	Name
AC	223m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
AC	225m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
AC	228m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	228m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
39	228m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Wrancarr Drain
AC	229m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
40	231m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wrancarr Drain
42	237m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AF	243m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

31

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 51 >](#)

This data is sourced from the Ordnance Survey.



6.3 WFD Surface water body catchments

Records on site

3

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 51](#) >

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
9	On site	River	Bramwith Drain from Source to River Don	GB104027063290	Don Lower	Don and Rother
10	On site	River	Ea Beck from the Skell to River Don	GB104027057591	Don Lower	Don and Rother
11	On site	River	Don from Mill Dyke to River Ouse	GB104027064243	Don Lower	Don and Rother

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

6.4 WFD Surface water bodies

Records identified

3

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 51](#) >

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
12	On site	River	Ea Beck from the Skell to River Don	GB104027057591 ↗	Moderate	Fail	Moderate	2019
14	9m SE	River	Don from Mill Dyke to River Ouse	GB104027064243 ↗	Moderate	Fail	Moderate	2019
-	666m NE	River	Bramwith Drain from Source to River Don	GB104027063290 ↗	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
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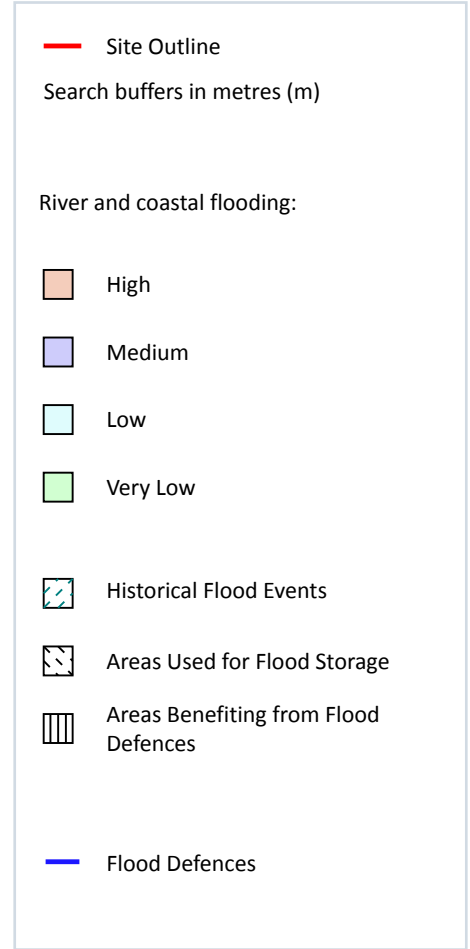
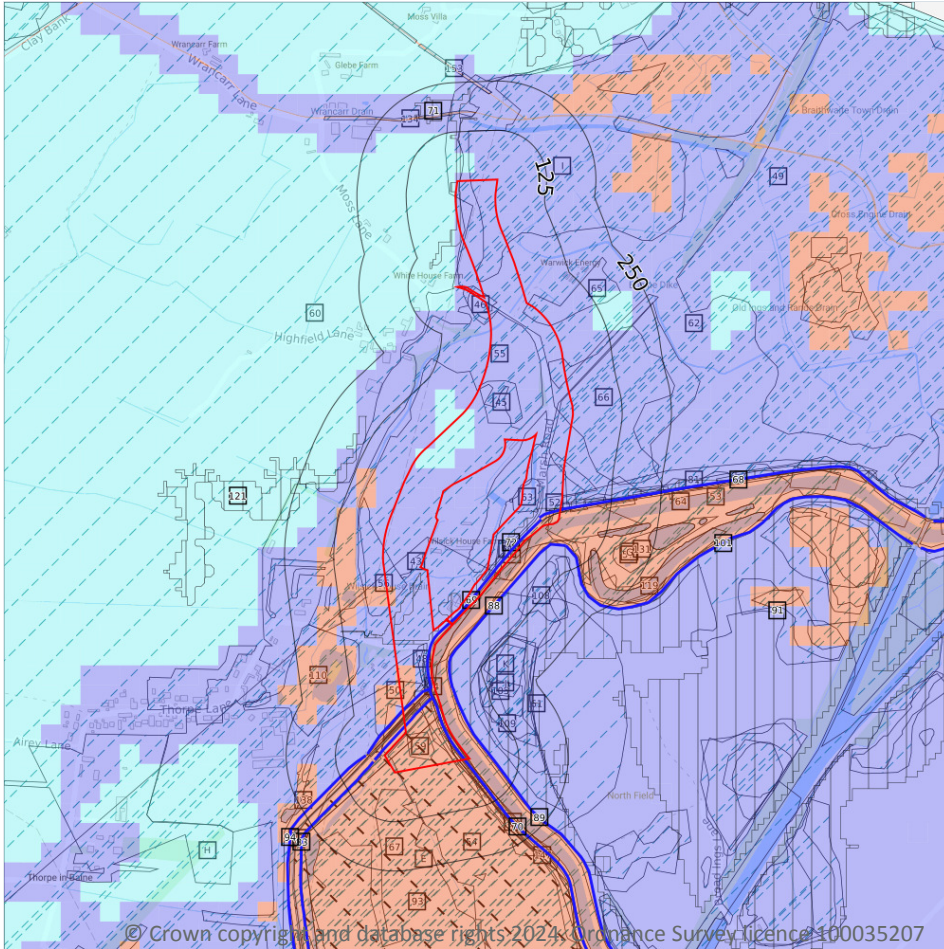
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 51 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
13	On site	Aire & Don Sherwood Sandstone.	GB40401G701000 ↗	Poor	Poor	Poor	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

62

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

Features are displayed on the River and coastal flooding map on [page 60](#) >

Distance	Flood risk category
On site	High
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	56
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Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

Features are displayed on the River and coastal flooding map on [page 60 >](#)

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
43	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
44	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
45	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
46	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
47	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
48	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
49	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
50	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
51	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
52	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
53	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
54	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
55	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
56	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
57	On site	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Unknown	No data
58	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Channel capacity exceeded (no raised defences)	Fluvial
59	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
60	On site	123 March 1947	1947-03-19 1947-03-22	Main river	Operational failure/breach of defence	Fluvial
61	On site	2021 January Flood Incident - Storm Christoph	2021-01-18 2021-02-06	Main river	Channel capacity exceeded (no raised defences)	Fluvial
62	On site	June 2007 Flood Event (Ridings Area)	2007-06-25 2007-06-26	Unknown	Unknown	Fluvial
63	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
64	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
65	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
B	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
66	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
C	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
67	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
D	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
D	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
D	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
E	On site	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Unknown	No data
E	On site	123 May 1932 Arksey	1932-05-01 1932-05-31	Main river	Unknown	Fluvial
E	On site	2021 January Flood Incident - Storm Christoph	2021-01-18 2021-02-06	Main river	Channel capacity exceeded (no raised defences)	Fluvial
F	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
F	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
G	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Channel capacity exceeded (no raised defences)	Fluvial
H	On site	123 May 1932	1932-05-01 1932-05-31	Main river	Unknown	Fluvial
I	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
D	24m S	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
81	32m E	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
93	44m S	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
105	74m SE	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Unknown	No data
108	77m S	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data
109	86m S	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data
110	89m SW	2019 November Flood Incident	2019-11-07 2019-11-08	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
J	99m S	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data
J	102m S	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
119	112m SE	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
K	114m S	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data
K	130m S	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Drainage	Local drainage/surface water	No data
131	158m SE	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
134	162m N	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data
138	168m SW	2019 November Flood Incident	2019-11-07 2019-11-08	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
147	190m S	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Channel capacity exceeded (no raised defences)	Fluvial
153	218m N	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data

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

7.3 Flood Defences

Records within 250m

11

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.

Features are displayed on the River and coastal flooding map on [page 60](#) >

ID	Location	Update
A	On site	08/11/2022
D	On site	08/11/2022
D	On site	08/11/2022
68	On site	08/11/2022



ID	Location	Update
69	On site	08/11/2022
70	On site	08/11/2022
83	33m S	08/11/2022
88	43m S	08/11/2022
89	43m S	08/11/2022
94	48m S	08/11/2022
101	64m SE	08/11/2022

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

4

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.

Features are displayed on the River and coastal flooding map on [page 60 >](#)

ID	Location	
71	On site	Area benefiting from flood defences
72	On site	Area benefiting from flood defences
91	43m S	Area benefiting from flood defences
121	134m W	Area benefiting from flood defences

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

7.5 Flood Storage Areas

Records within 250m

1

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.

Features are displayed on the River and coastal flooding map on [page 60 >](#)

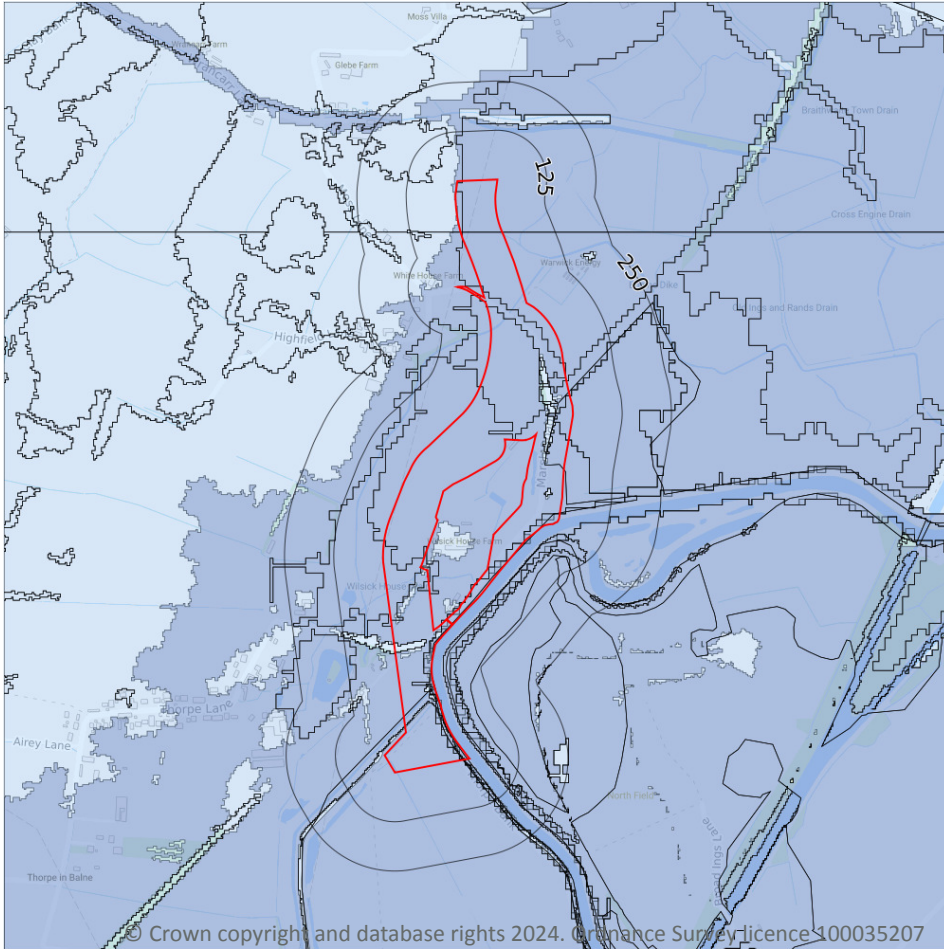
ID	Location	Update
E	On site	Flood Storage Area



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



River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 60](#) >

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

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

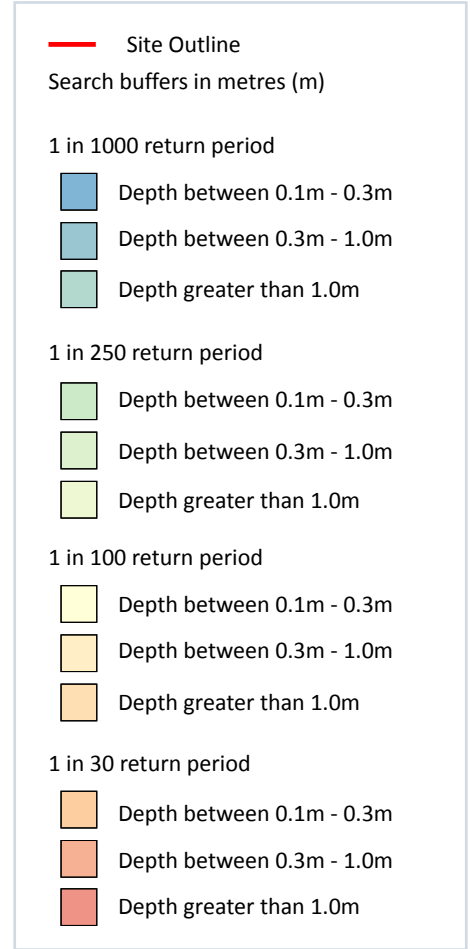
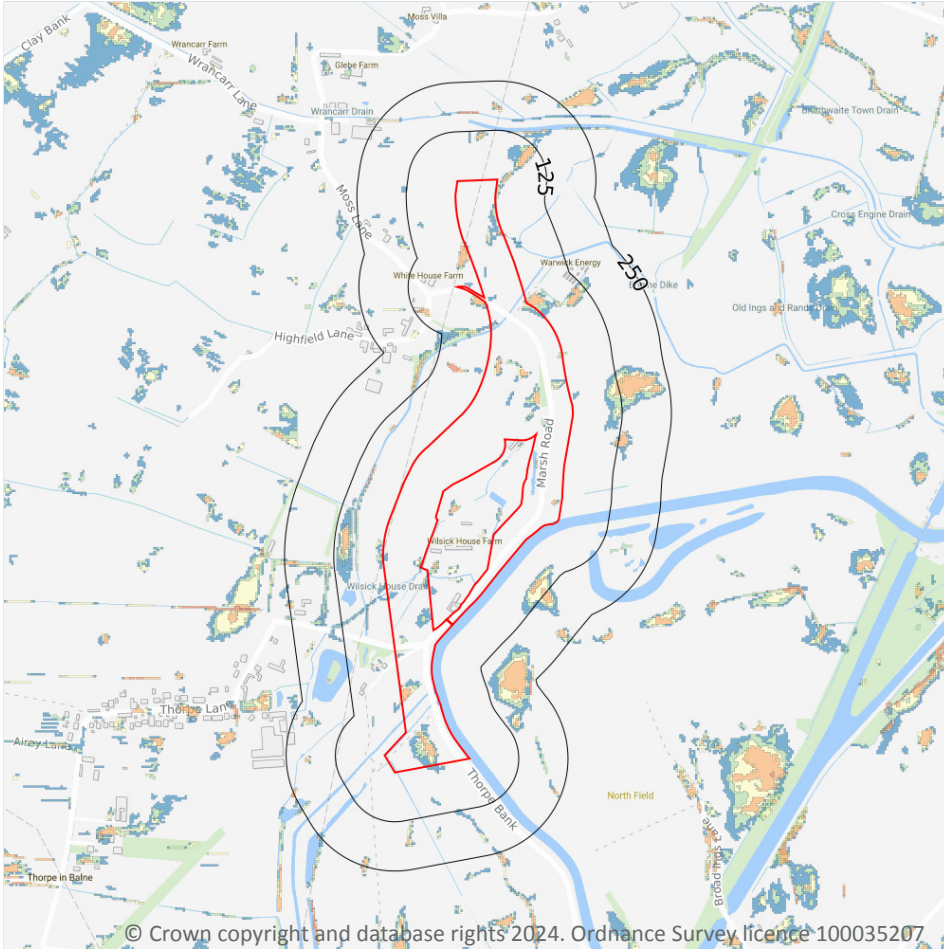
Features are displayed on the River and coastal flooding map on [page 60 >](#)

Location	Type
On site	Zone 3 - (Fluvial Models)

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

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on [page 69 >](#)

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

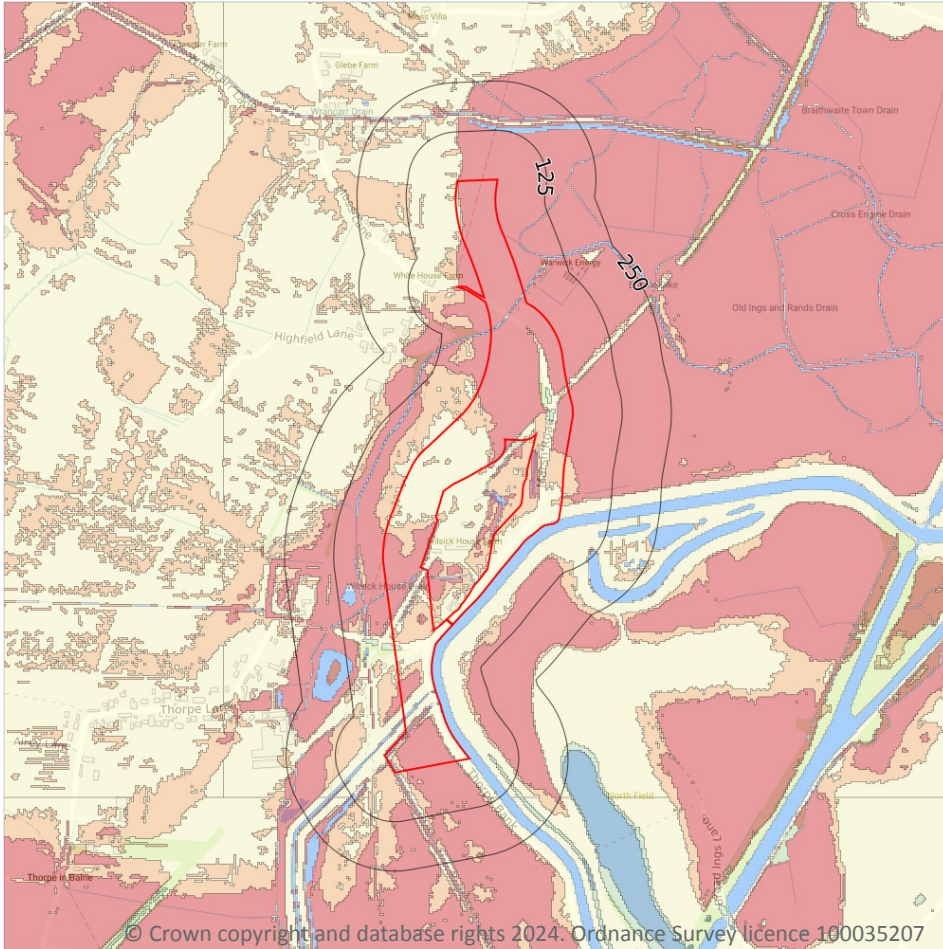
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

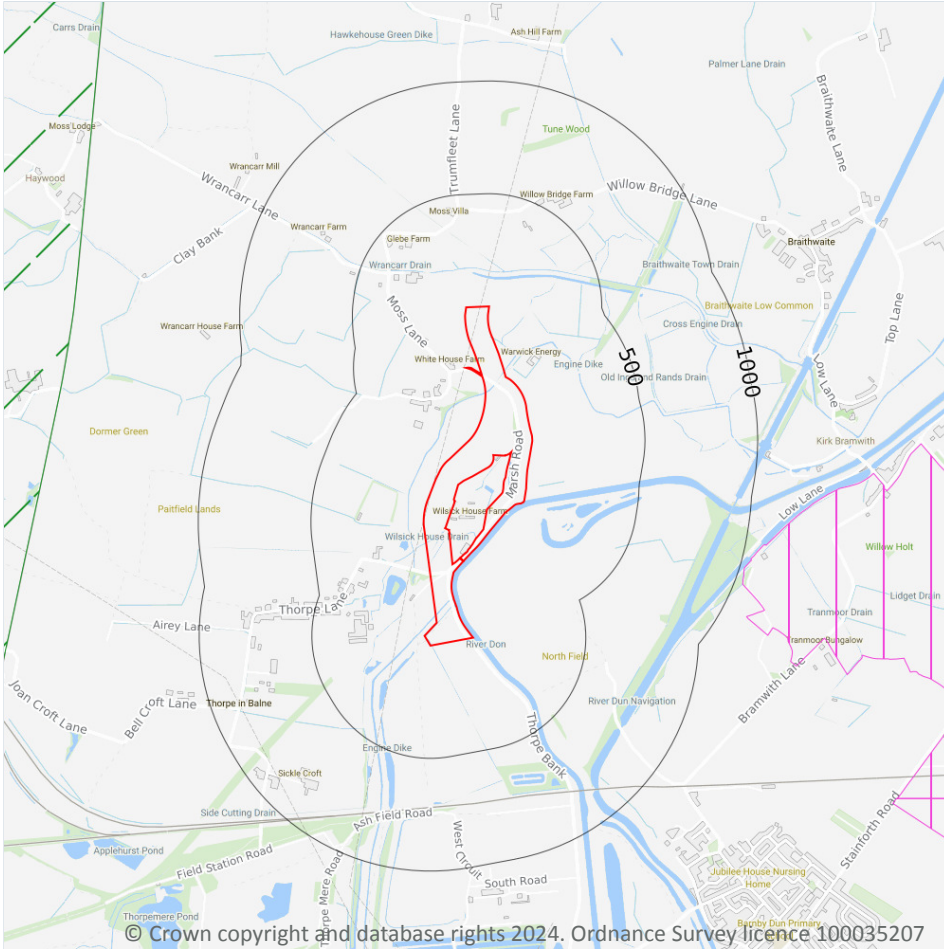
High

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

Features are displayed on the Groundwater flooding map on [page 71](#) >

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

0

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

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

1

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

Features are displayed on the Environmental designations map on [page 72 >](#)

ID	Location	Name	Local Authority name
2	1691m W	South and West Yorkshire	Doncaster

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

1

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).

Features are displayed on the Environmental designations map on [page 72 >](#)

ID	Location	Name	Data source
1	1021m E	Hatfield	Natural England

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

4

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

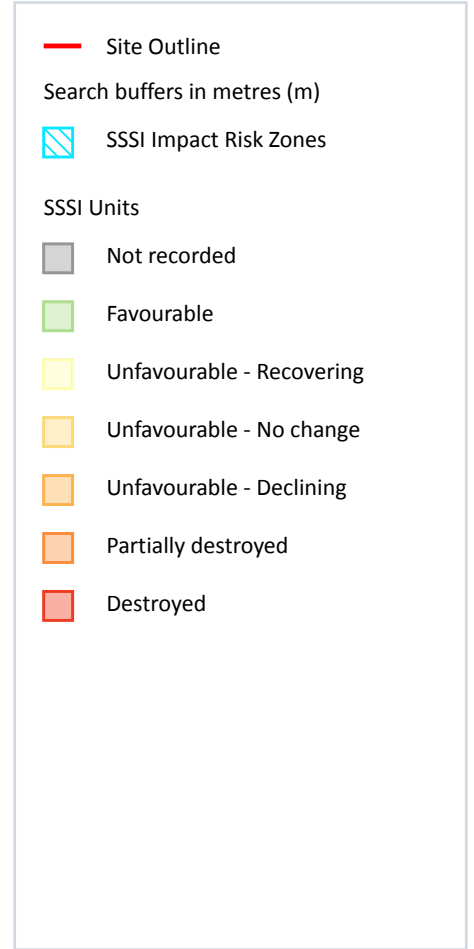
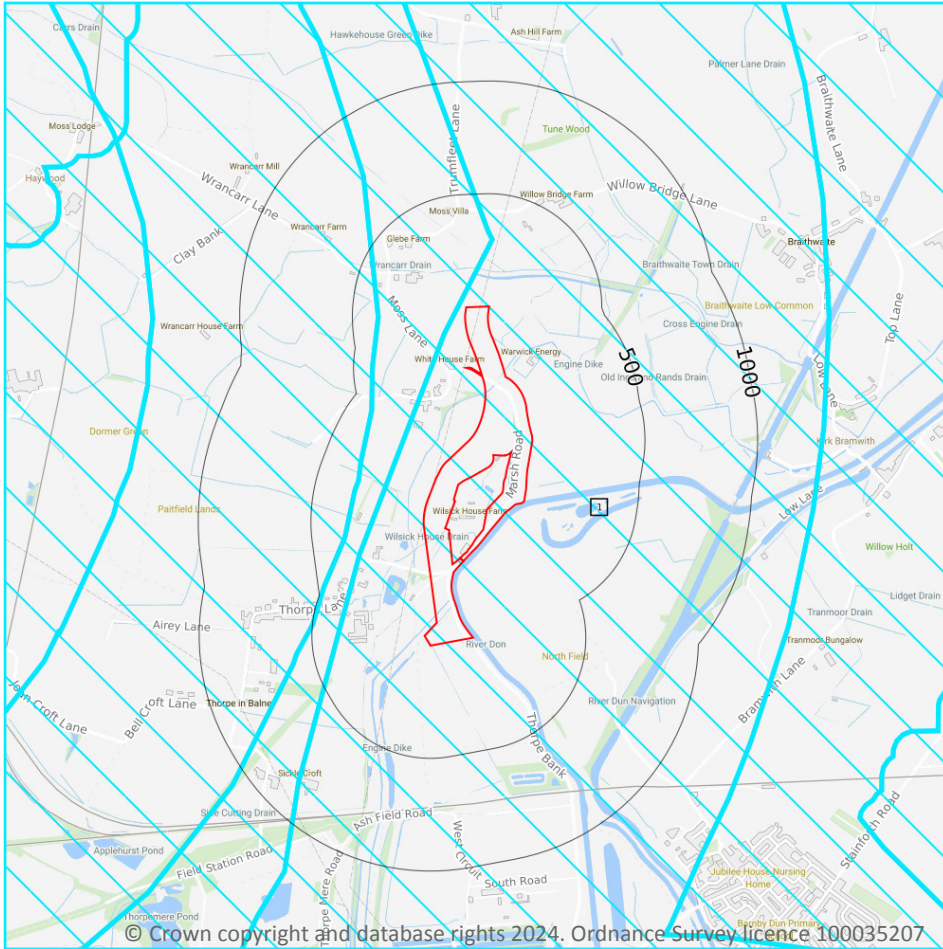
Location	Name	Type	NVZ ID	Status
On site	Ea Beck from Abbess Dyke to River Don NVZ	Surface Water	279	Existing
On site	Bramwith Drain from Source to River Don NVZ	Surface Water	280	Existing
On site	LOWER DON NVZ	Surface Water	298	Existing
2m SE	Nottinghamshire	Groundwater	40	Existing



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



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on [page 78](#) >

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p>

This data is sourced from Natural England.

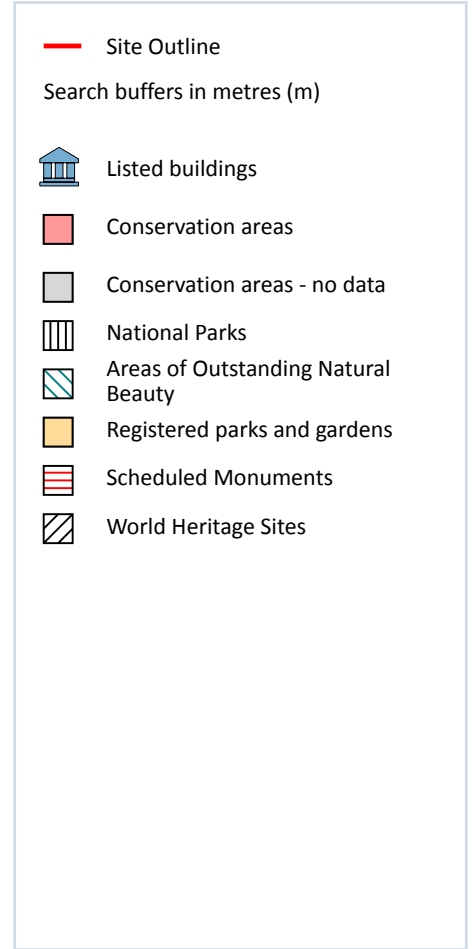
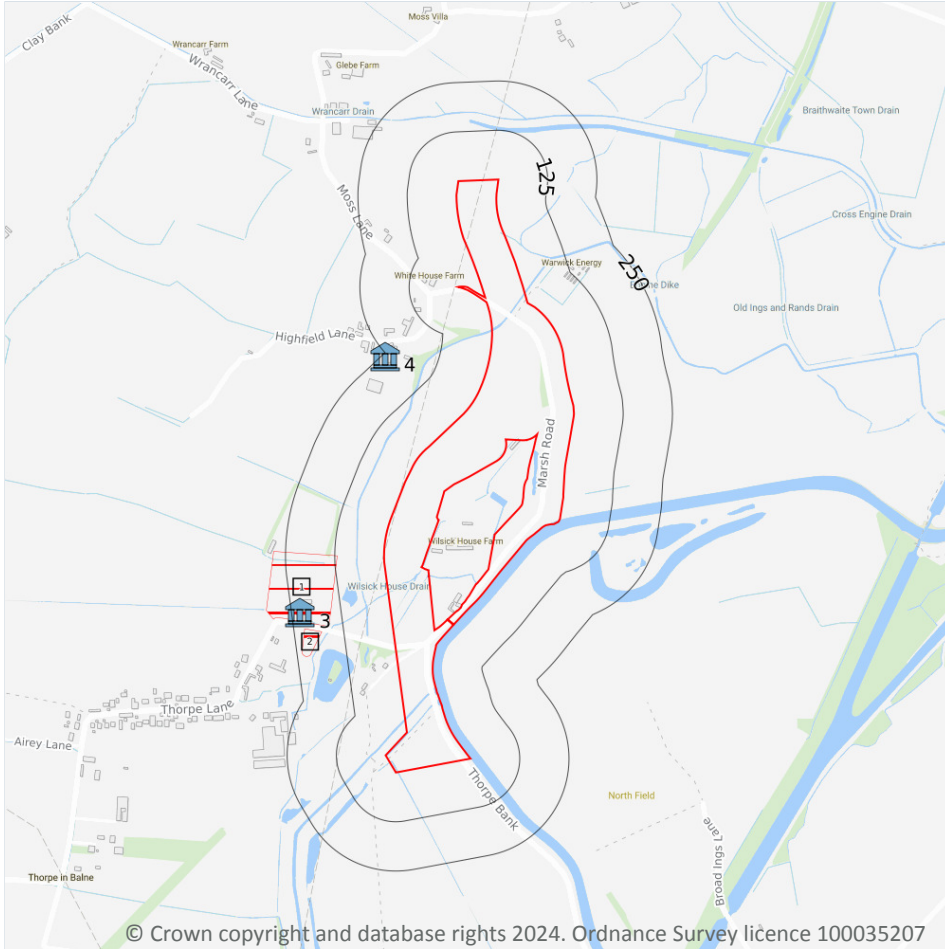
10.18 SSSI Units

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

2

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

Features are displayed on the Visual and cultural designations map on [page 80 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
3	228m SW	Remains Of Chapel At Manor House Farm	II*	1286641	05/06/1968
4	243m NW	Barn Approximately 20 Metres To South West Of Manor Farmhouse	II	1192377	23/03/1988

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

2

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.

Features are displayed on the Visual and cultural designations map on [page 80 >](#)

ID	Location	Ancient monument name	Reference number
1	119m SW	Thorpe in Balne moated site, chapel and fishpond	1012111
2	180m SW	Thorpe in Balne moated site, chapel and fishpond	1012111

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

11.7 Registered Parks and Gardens

Records within 250m

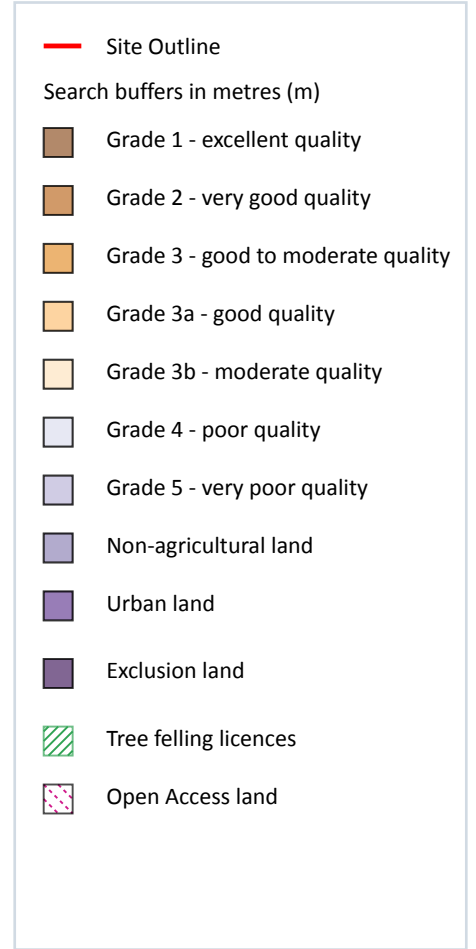
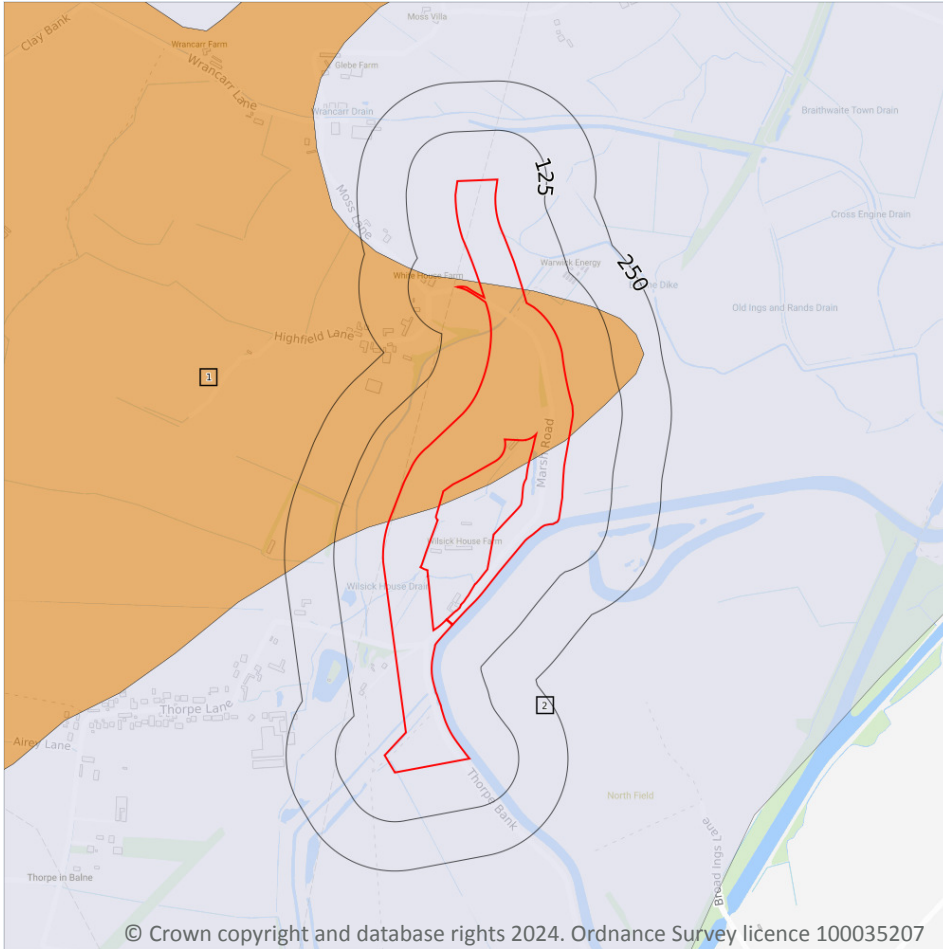
0

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



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 83](#) >

ID	Location	Classification	Description
1	On site	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.

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

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

7

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.

Location	Reference	Scheme	Start Date	End date
On site	AG00334733	Entry Level plus Higher Level Stewardship	01/11/2011	31/10/2023
On site	AG00334733	Entry Level plus Higher Level Stewardship	01/11/2011	31/10/2023
On site	AG00353397	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023
On site	AG00353397	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023



Location	Reference	Scheme	Start Date	End date
On site	AG00353397	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023
On site	AG00353397	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2021
21m S	AG00399152	Entry Level plus Higher Level Stewardship	01/02/2012	31/01/2022

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

6

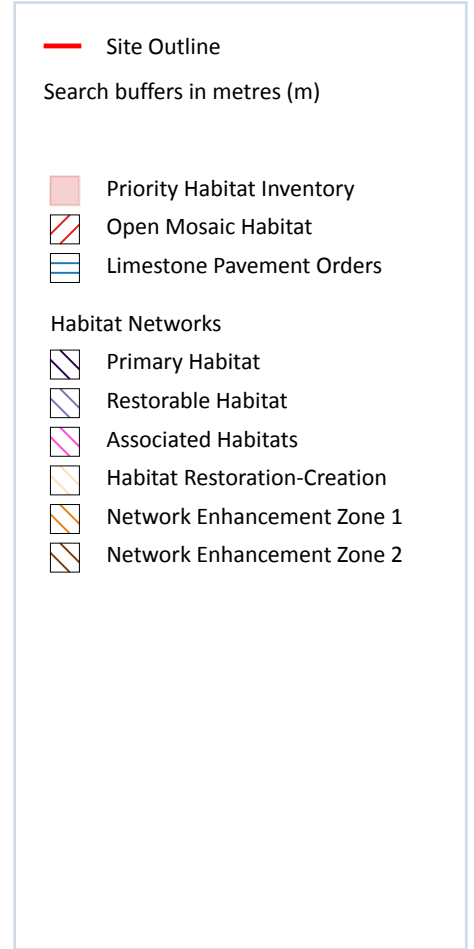
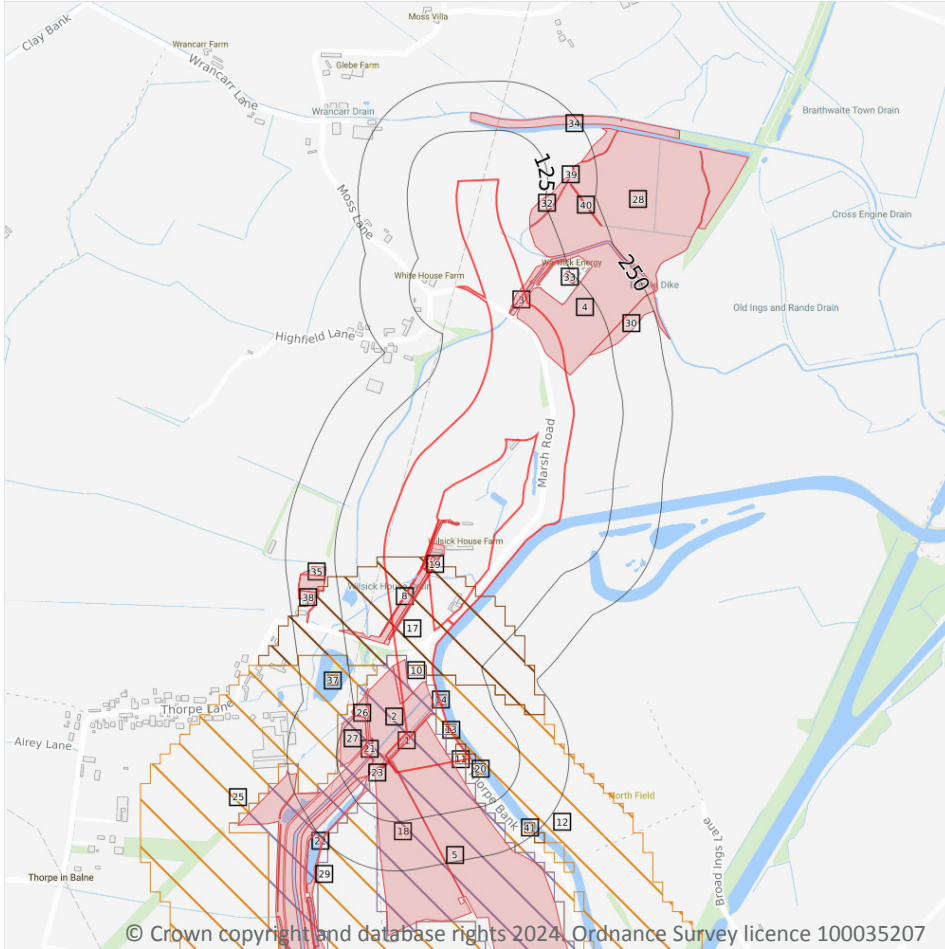
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
On site	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
21m S	1461357	Countryside Stewardship (Middle Tier)	01/01/2023	31/12/2027
31m S	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
43m S	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
79m S	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
178m SW	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

30

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 86](#) >

ID	Location	Main Habitat	Other habitats
1	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
2	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
3	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
4	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
6	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
7	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
8	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
19	5m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
21	35m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
22	35m S	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
23	39m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
24	43m S	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
26	56m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
27	58m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
28	63m N	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
29	63m S	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
30	65m NE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
31	66m S	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
32	68m N	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
33	108m NE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
34	133m N	No main habitat but additional habitats present	Additional: CFPGM (INV 50%)
35	148m SW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
36	154m SW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
38	160m SW	Traditional orchard	Main habitat: TORCH (INV > 50%)
39	174m N	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
40	183m N	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
A	214m SW	Traditional orchard	Main habitat: TORCH (INV > 50%)
A	214m SW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m

14

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.

Features are displayed on the Habitat designations map on [page 86 >](#)

ID	Location	Type	Habitat
10	On site	Network Enhancement Zone 1	Not specified
11	On site	Network Enhancement Zone 1	Not specified
12	On site	Network Enhancement Zone 1	Not specified
13	On site	Network Enhancement Zone 2	Not specified
14	On site	Network Enhancement Zone 2	Not specified
15	On site	Network Enhancement Zone 2	Not specified
16	On site	Network Enhancement Zone 2	Not specified
17	On site	Network Enhancement Zone 2	Not specified
18	On site	Restorable Habitat	Not specified
20	19m S	Network Enhancement Zone 2	Not specified
25	53m SW	Network Enhancement Zone 1	Not specified
37	155m SW	Network Enhancement Zone 2	Not specified
41	214m S	Network Enhancement Zone 2	Not specified
42	249m S	Network Enhancement Zone 2	Not specified

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

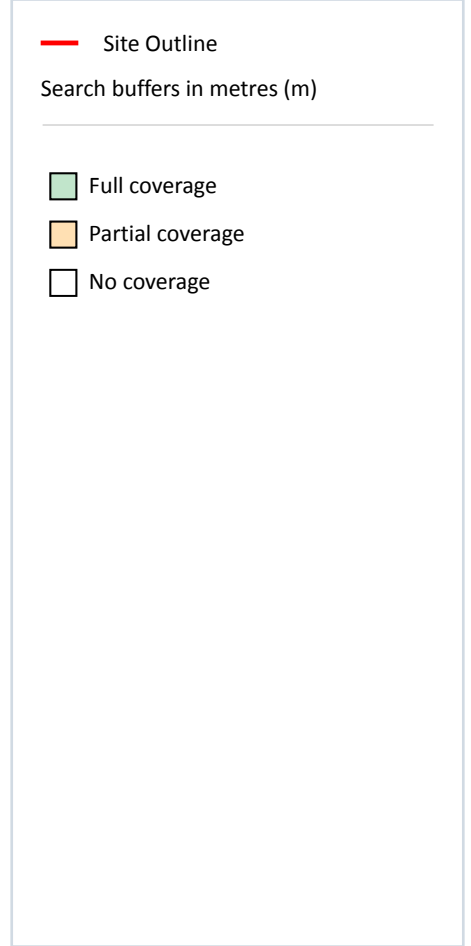
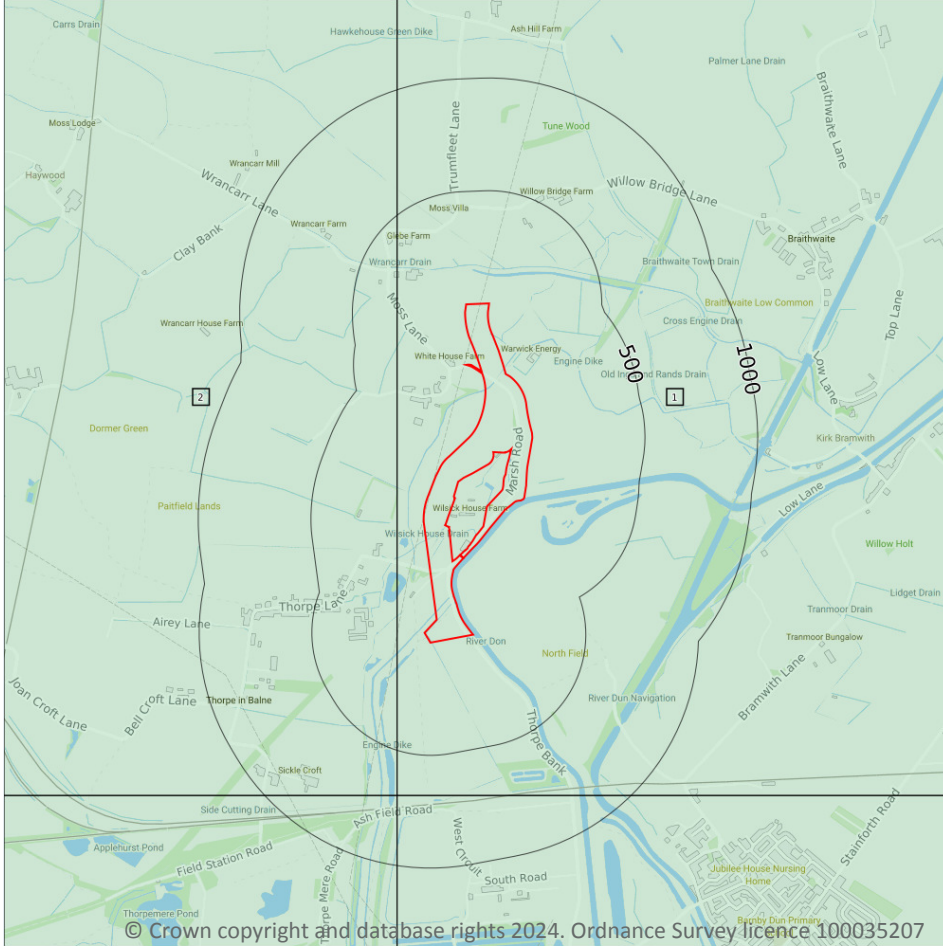
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Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable 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

2

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

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 90](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SE61SW
2	118m SW	No coverage	Full	Full	No coverage	SE51SE

This data is sourced from the British Geological Survey.



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024

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

14.2 Artificial and made ground (10k)

Records within 500m

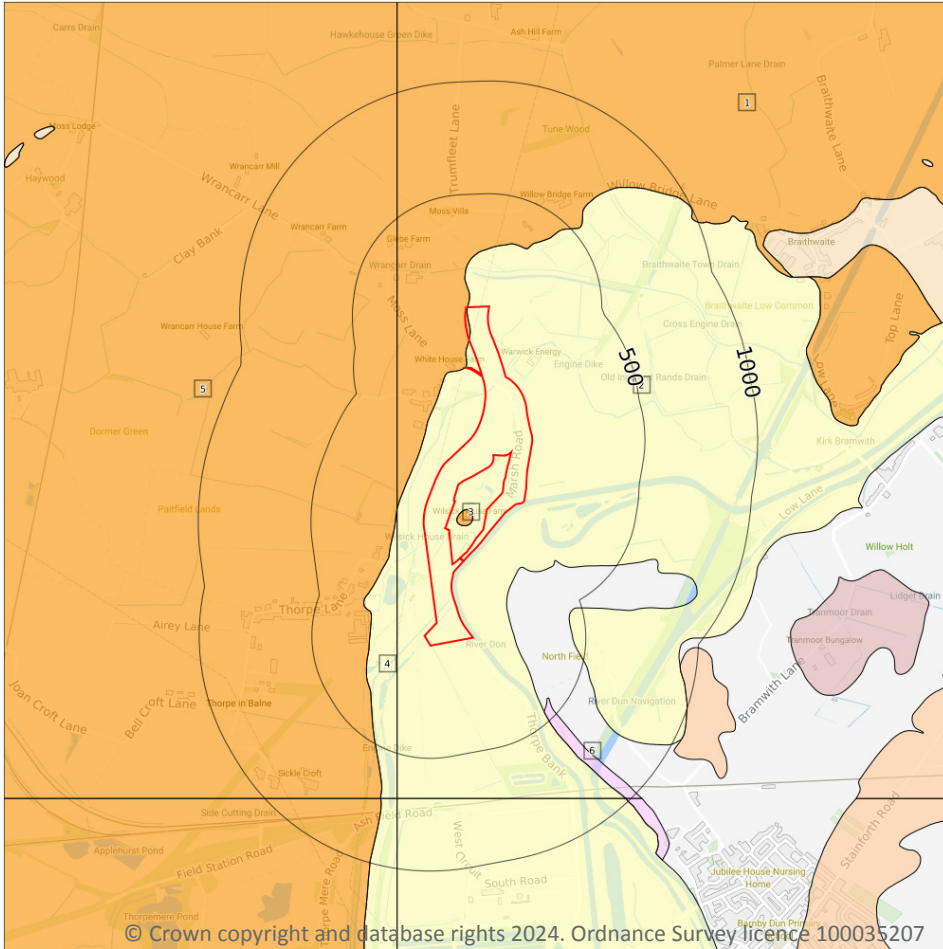
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Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— 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

6

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 92](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
2	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	35m SW	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
4	118m SW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
5	122m SW	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
6	425m S	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

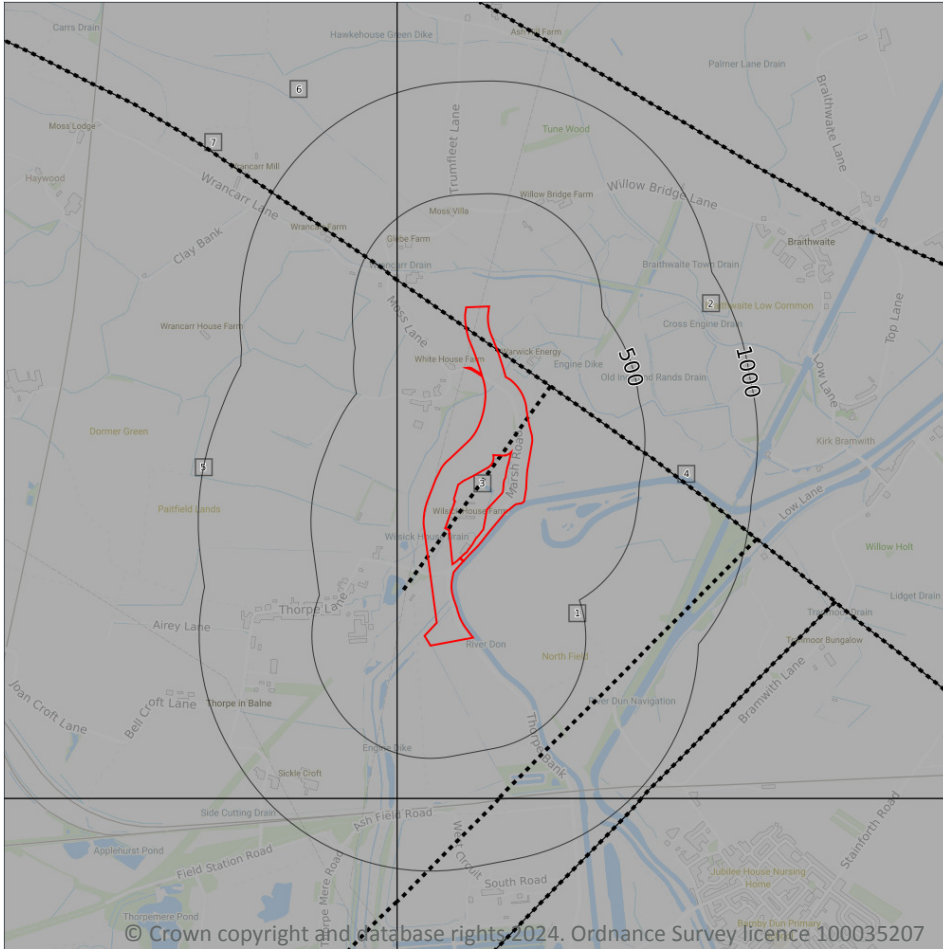
0

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

4

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 94](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
2	On site	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
5	118m SW	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
6	329m N	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

3

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.

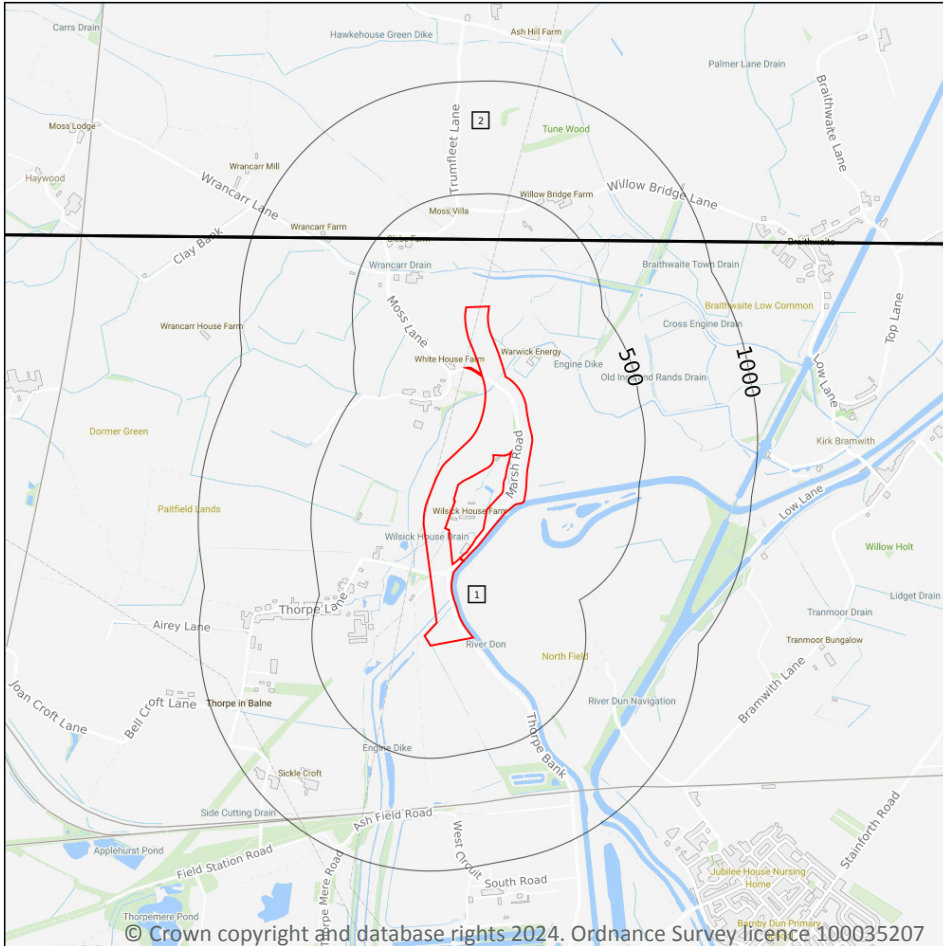
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 94](#) >

ID	Location	Category	Description
3	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
4	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
7	329m N	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m

2

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 96](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW088_doncaster_v4
2	297m N	No coverage	Full	Full	No coverage	EW079_goole_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

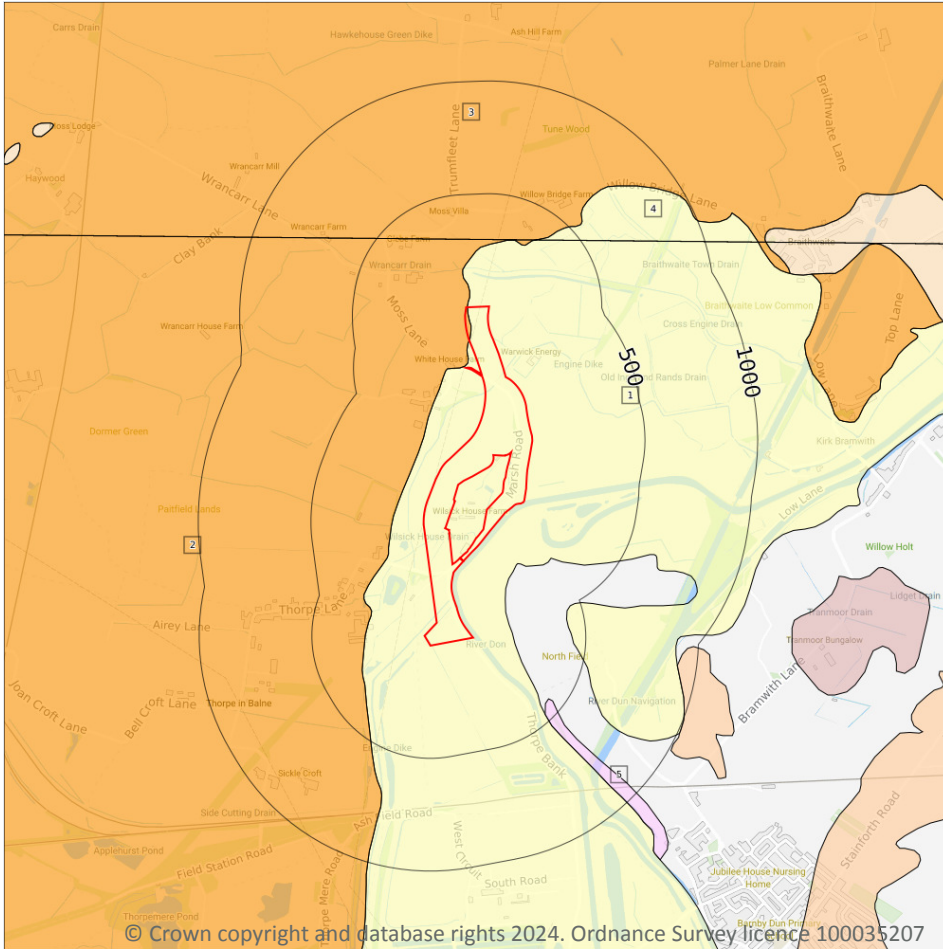
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



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

15.4 Superficial geology (50k)

Records within 500m

5

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 98](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	On site	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
3	297m N	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
4	362m N	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
5	431m S	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

2

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

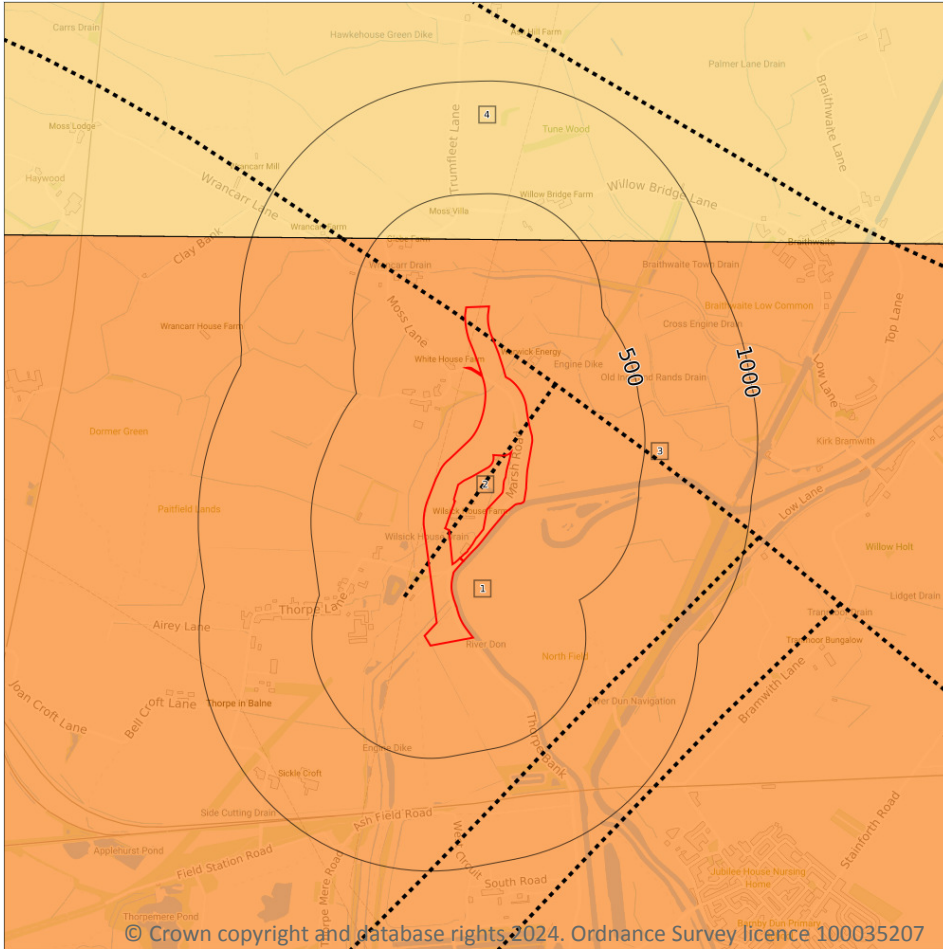
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



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

15.8 Bedrock geology (50k)

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 100](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	CHES-PESST	CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)	OLENEKIAN
4	297m N	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-

This data is sourced from the British Geological Survey.



15.9 Bedrock permeability (50k)

Records within 50m

1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

2

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.

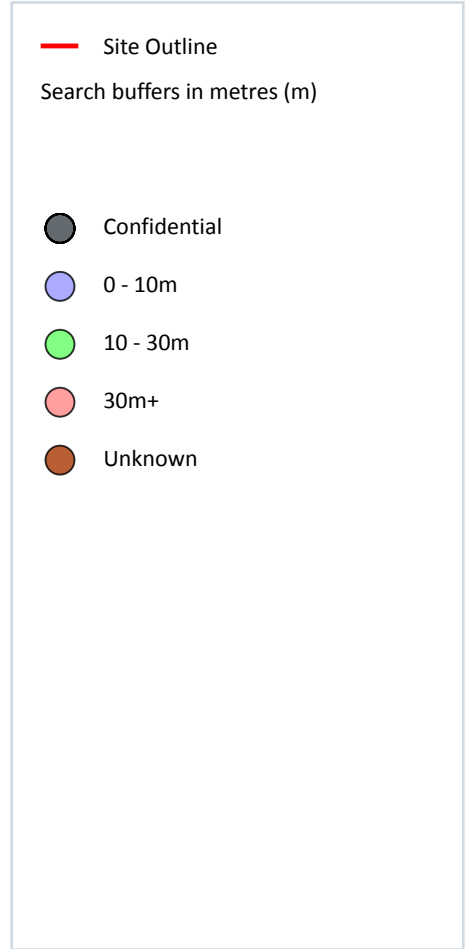
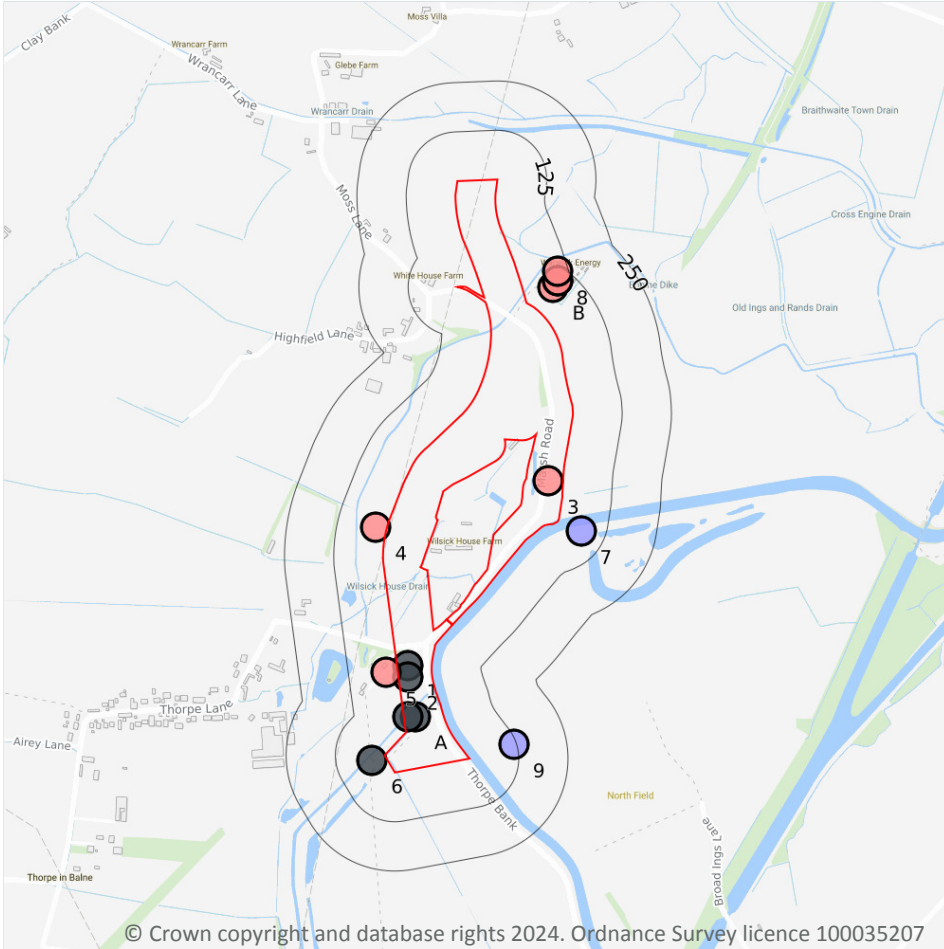
Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 100 >](#)

ID	Location	Category	Description
2	On site	FAULT	Fault, inferred
3	On site	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

14

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 102](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	460180 410950	EA BECK 1	-	Y	N/A
2	On site	460180 410920	EA BECK TP 10	-	Y	N/A
3	On site	460537 411419	TRUMFLEET 5	1112.52	N	121190 ↗

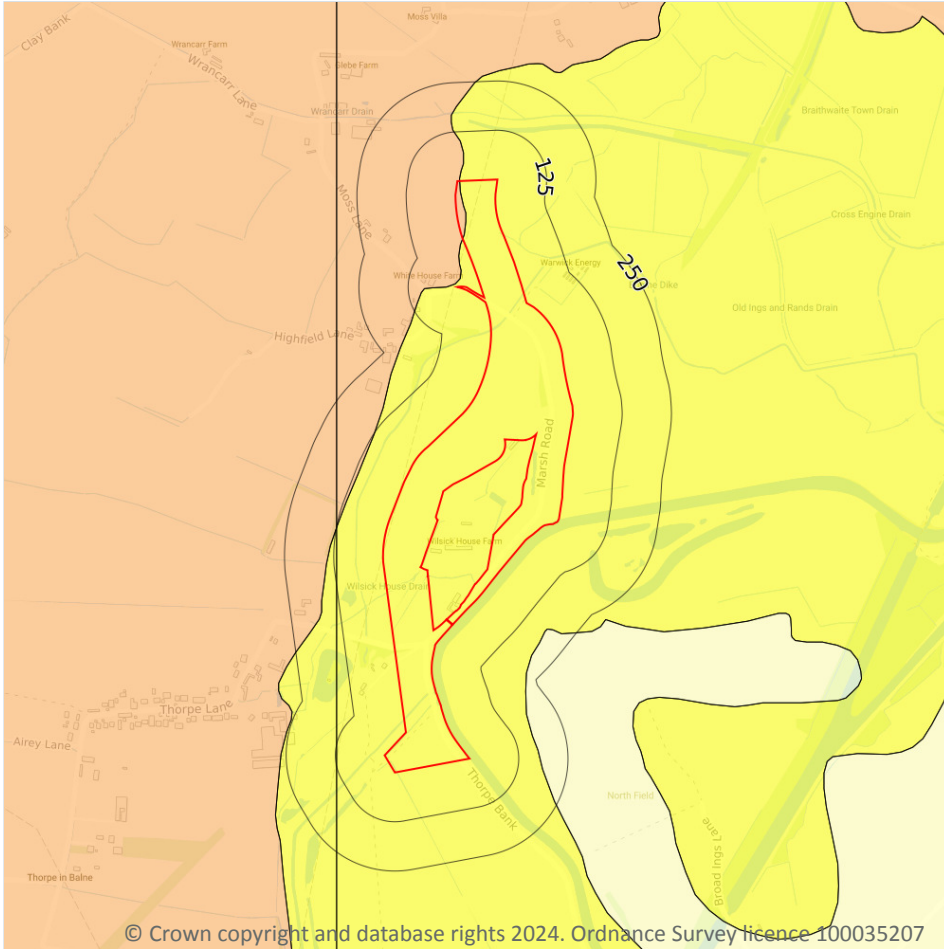


ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	460200 410820	EA BECK 3	-	Y	N/A
A	On site	460180 410820	EA BECK 2	-	Y	N/A
4	27m SW	460100 411300	TRUMFLEET	279.5	N	18532954 ↗
5	29m SW	460126 410932	THORPE IN BALNE STATION(SIDINGS)	33.53	N	121188 ↗
6	34m S	460090 410710	EA BECK TP 11	-	Y	N/A
7	64m SE	460620 411290	KIRK BRAMWITH SHALLOW BORES	5.18	N	121197 ↗
B	71m NE	460550 411910	TRUMFLEET 4	1158.24	N	19370644 ↗
B	90m NE	460561 411925	TRUMFLEET 6Z	1180.0	N	18062907 ↗
B	90m NE	460561 411925	TRUMFLEET 6	1158.0	N	18062904 ↗
8	97m N	460560 411950	TRUMFLEET 3	1153.06	N	121228 ↗
9	119m S	460450 410750	KIRK BRAMWITH SHALLOW BORES	5.64	N	121194 ↗

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).

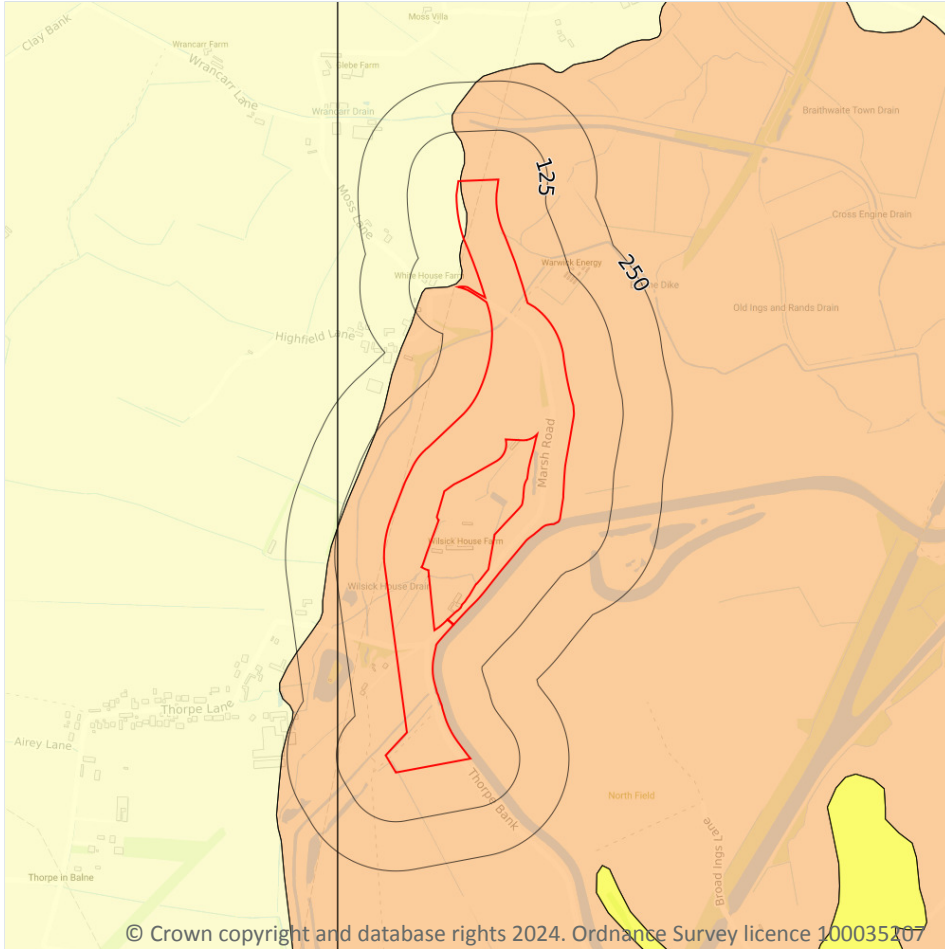
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 104 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



— Site Outline
Search buffers in metres (m)

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

17.2 Running sands

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 105 >](#)

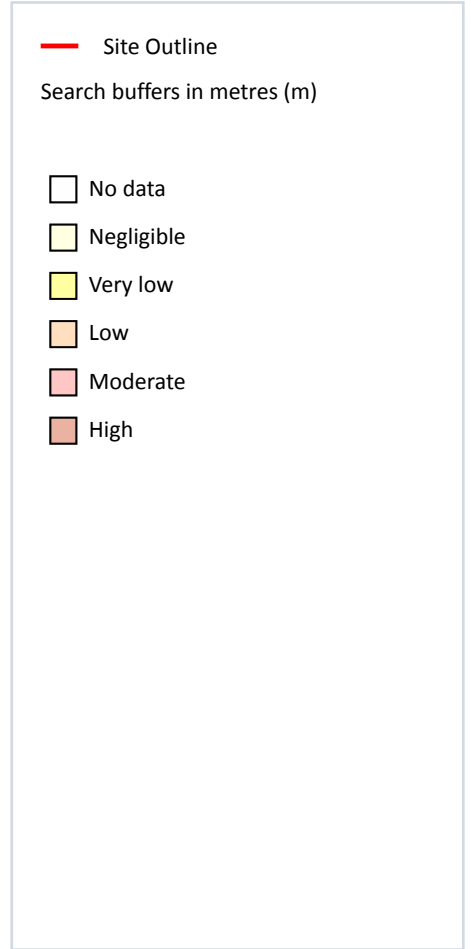
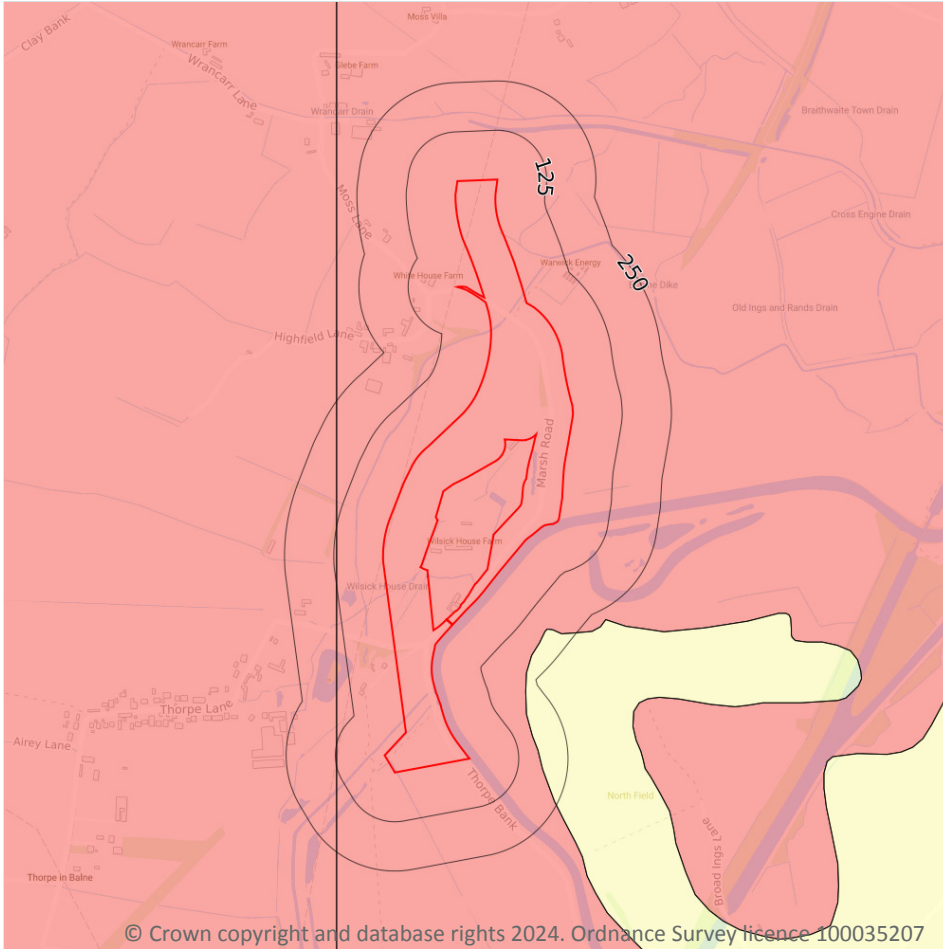
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

1

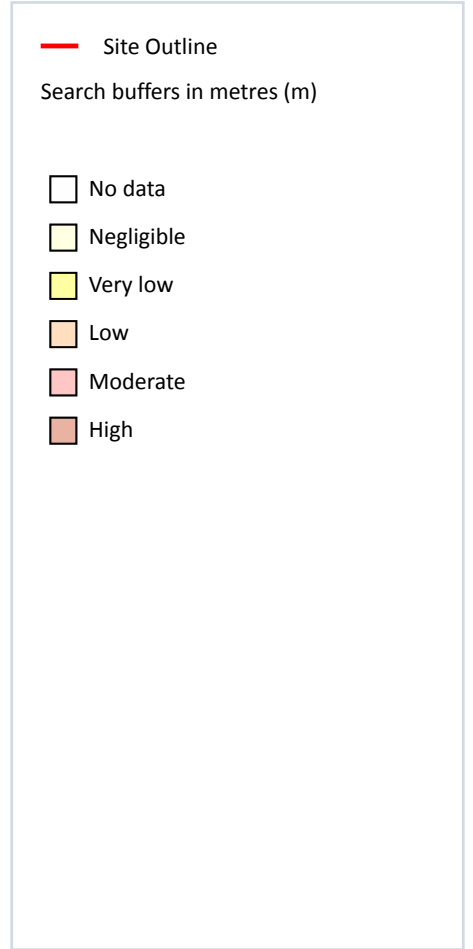
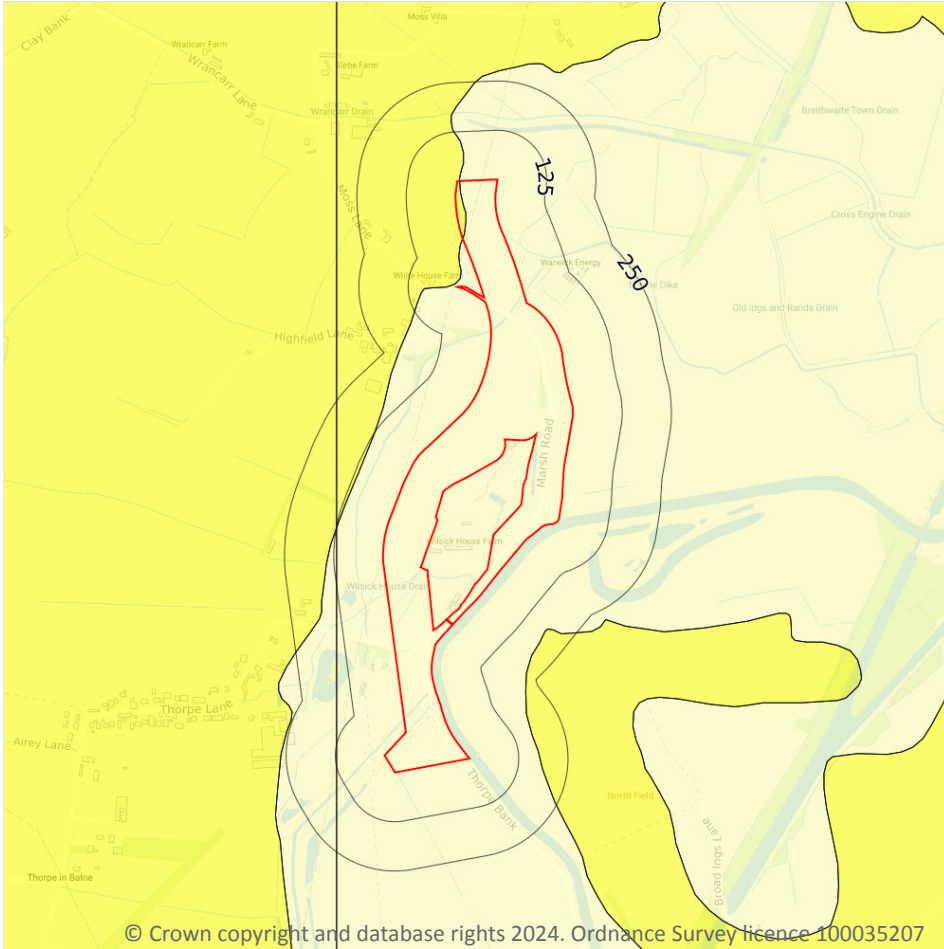
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 107](#) >

Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

2

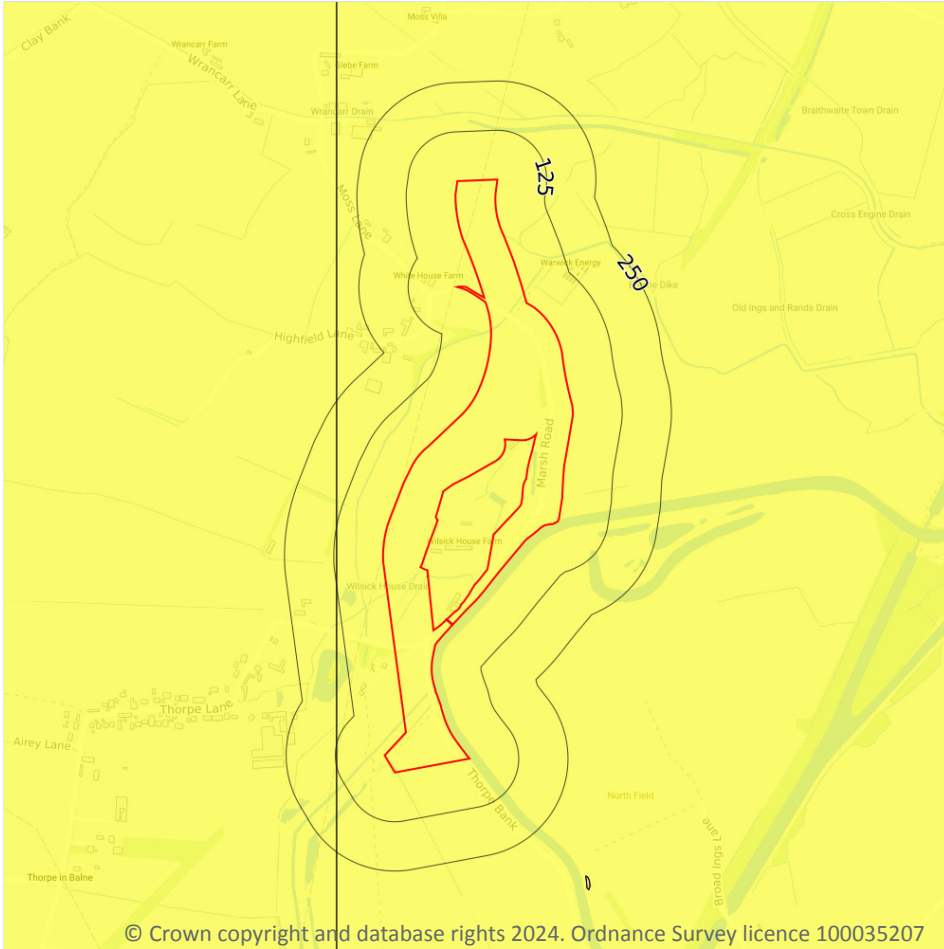
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 108 >](#)

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



— Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m

1

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

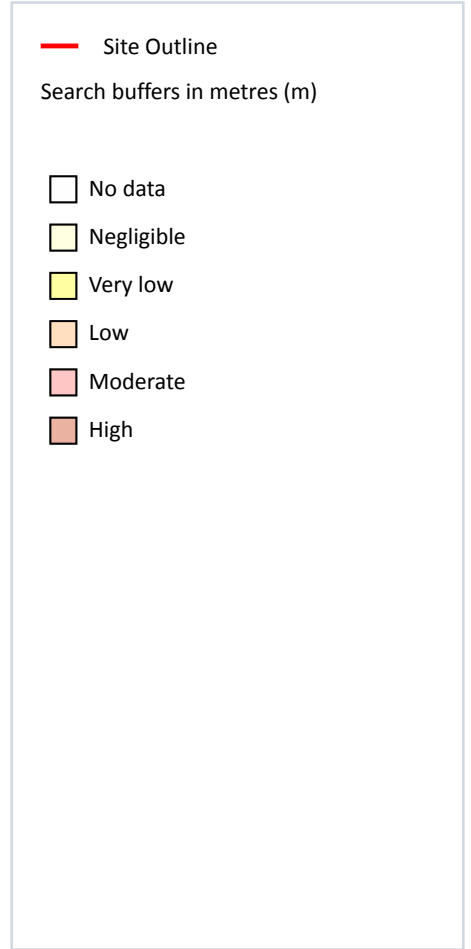
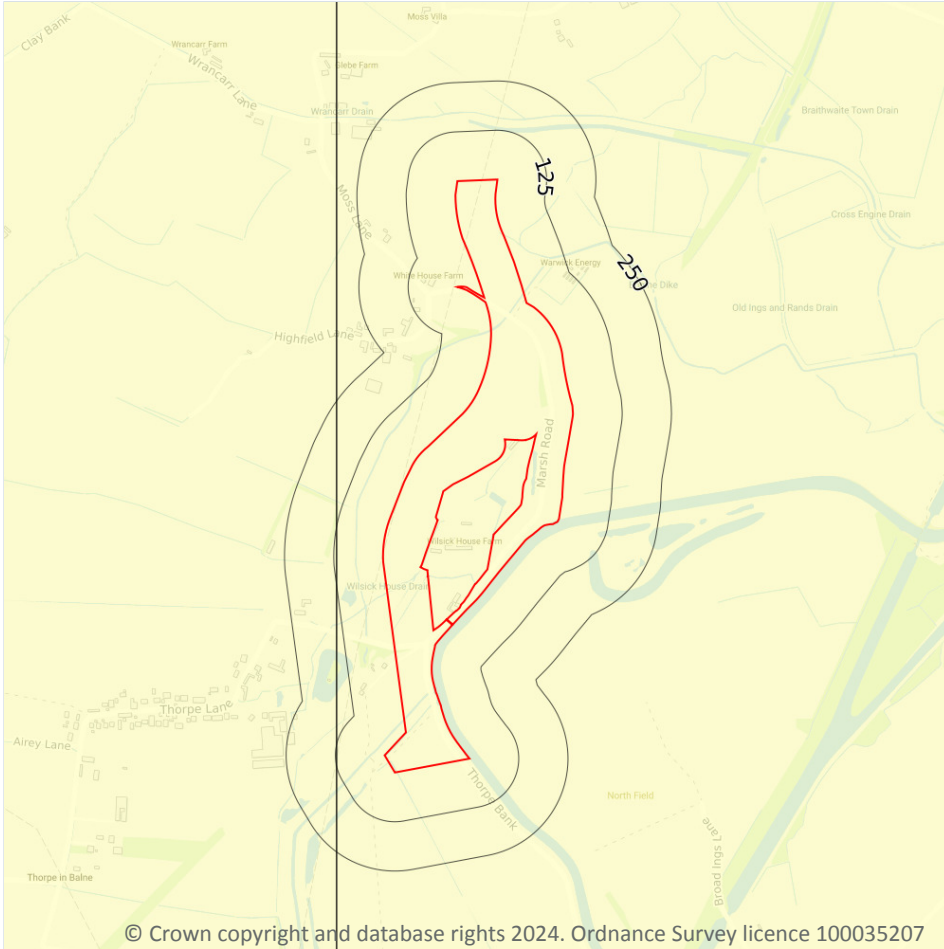
Features are displayed on the Natural ground subsidence - Landslides map on [page 109](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 110](#) >

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.



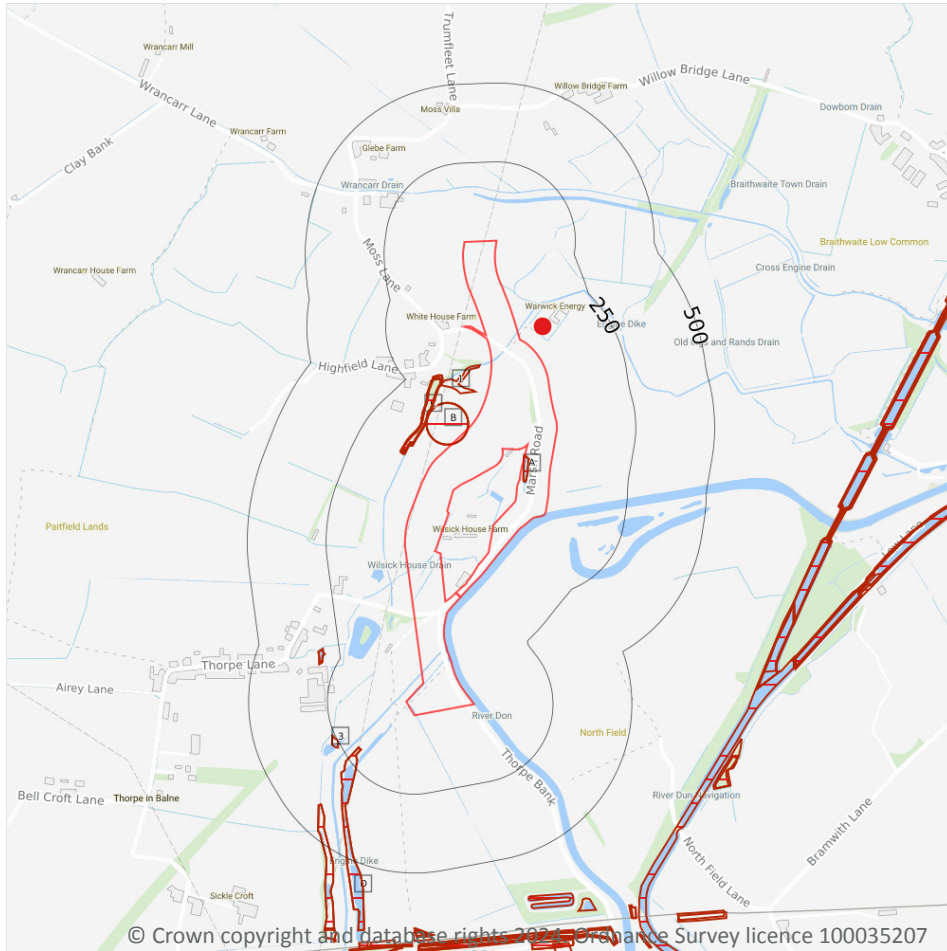
Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 12 January 2024

18 Mining and ground workings



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 112 >](#)

ID	Location	Details	Description
2	74m NE	Name: Trumfleet Gasfield Address: Thorpe-in-Balne, DONCASTER, South Yorkshire Commodity: Natural Gas Status: Active	Type: Wellsite, or other surface plant, extracting liquid or gas. Working may be for brine, oil or natural gas Status description: Site which is actively extracting mineral products, or in the case of wharfs and rail depots, is actively handing minerals



This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

16

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 112 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Pond	1967	1:10560
A	On site	Pond	1983	1:10000
B	On site	Unspecified Pit	1967	1:10560
B	On site	Unspecified Pit	1951	1:10560
B	On site	Unspecified Pit	1983	1:10000
1	37m N	Unspecified Ground Workings	1904	1:10560
C	84m NW	Pond	1967	1:10560
C	84m NW	Pond	1951	1:10560
C	84m NW	Pond	1983	1:10000
C	87m NW	Unspecified Pit	1933	1:10560
C	87m NW	Unspecified Pit	1933	1:10560
C	87m NW	Unspecified Pit	1948	1:10560
C	87m NW	Unspecified Pit	1904	1:10560
D	201m SW	Ponds	1967	1:10560
D	201m SW	Ponds	1983	1:10000
3	250m SW	Pond	1983	1:10000

This is data is sourced from Ordnance Survey/Groundsure.



18.3 Underground workings

Records within 1000m

0

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

This 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.

19.5 National karst database

Records within 500m

0

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

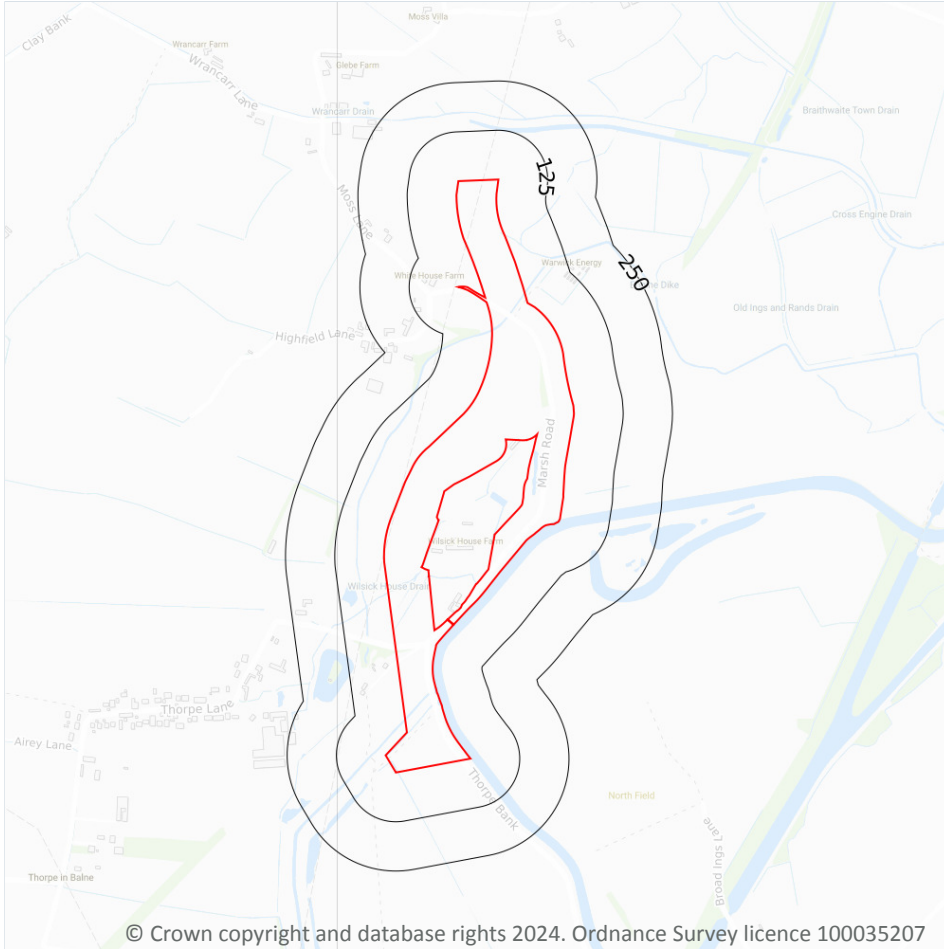
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

This data is sourced from the British Geological Survey.



20 Radon



— Site Outline
Search buffers in metres (m)

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

20.1 Radon

Records on site

1

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

Features are displayed on the Radon map on [page 119 >](#)

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



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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

10

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
10m N	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
20m N	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.



21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

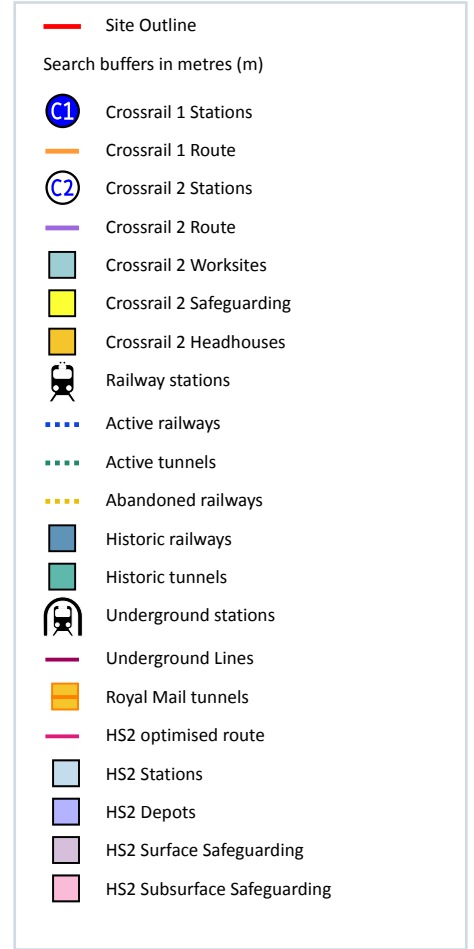
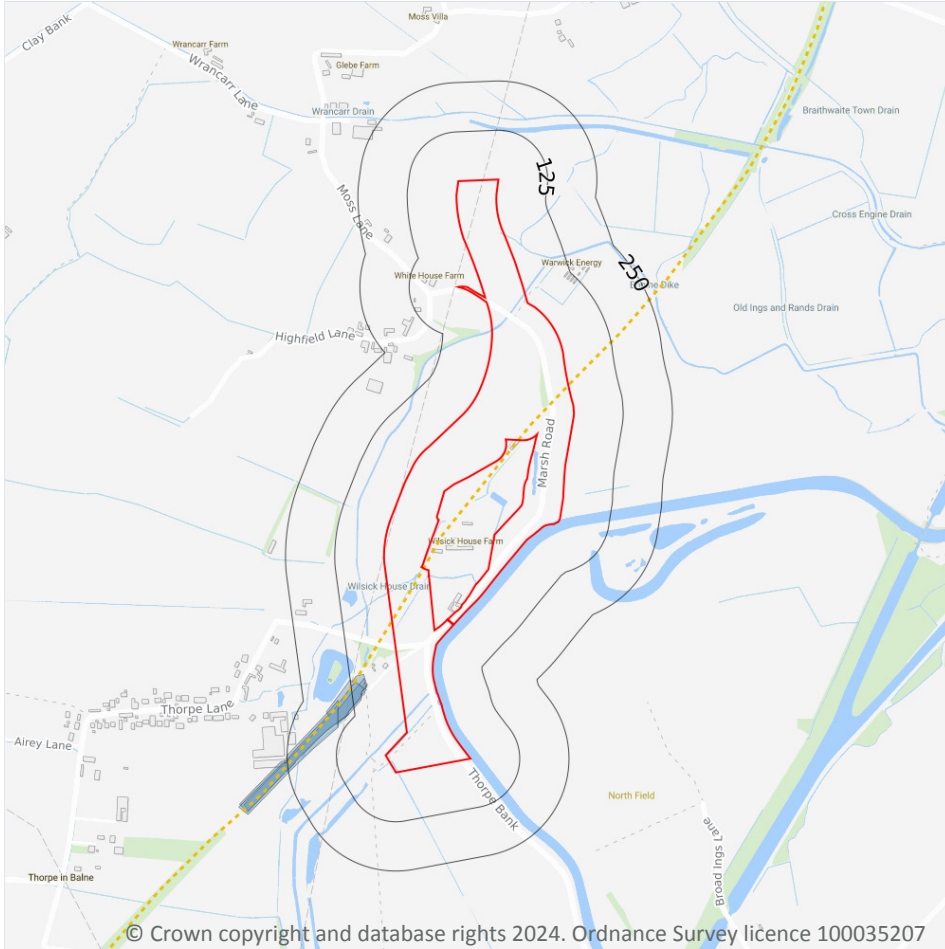
0

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



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

4

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 123 >](#)

Location	Land Use	Year of mapping	Mapping scale
86m SW	Railway Sidings	1948	10560
88m SW	Railway Sidings	1951	10560
92m SW	Railway Sidings	1933	10560
140m SW	Railway Sidings	1951	10560

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.



22.6 Historical railways

Records within 250m

1

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 123 >](#)

Location	Description
On site	Abandoned

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

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



is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

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



Fenwick

Order Details

Date: 12/01/2024
Your ref: Fenwick
Our Ref: GSIP-2024-14447-16721_D

Site Details

Location: 460529 409985
Area: 51.43 ha
Authority: [Doncaster Metropolitan Borough Council](#)
↗



Summary of findings

[p. 2 >](#)

Aerial image

[p. 9 >](#)

OS MasterMap site plan

N/A: >10ha

groundsure.com/insightuserguide ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	13	4	9	7	-
16 >	1.2 >	Historical tanks >	26	0	0	1	-
17 >	1.3 >	Historical energy features >	3	0	0	0	-
18	1.4	Historical petrol stations	0	0	0	0	-
18	1.5	Historical garages	0	0	0	0	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
19 >	2.1 >	Historical industrial land uses >	17	6	11	10	-
21 >	2.2 >	Historical tanks >	29	0	0	2	-
23 >	2.3 >	Historical energy features >	4	0	0	0	-
23	2.4	Historical petrol stations	0	0	0	0	-
23	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
24 >	3.1 >	Active or recent landfill >	0	0	0	2	-
25	3.2	Historical landfill (BGS records)	0	0	0	0	-
25	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
25	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
25 >	3.5 >	Historical waste sites >	1	0	0	0	-
26 >	3.6 >	Licensed waste sites >	4	0	0	2	-
28 >	3.7 >	Waste exemptions >	4	35	0	61	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
37 >	4.1 >	Recent industrial land uses >	5	2	8	-	-
38	4.2	Current or recent petrol stations	0	0	0	0	-
39 >	4.3 >	Electricity cables >	13	1	3	4	-
41	4.4	Gas pipelines	0	0	0	0	-
41	4.5	Sites determined as Contaminated Land	0	0	0	0	-



41	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
41	4.7	Regulated explosive sites	0	0	0	0	-
41	4.8	Hazardous substance storage/usage	0	0	0	0	-
42 >	4.9 >	<u>Historical licensed industrial activities (IPC) ></u>	3	0	0	0	-
42 >	4.10 >	<u>Licensed industrial activities (Part A(1)) ></u>	11	0	0	0	-
44	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
45	4.12	Radioactive Substance Authorisations	0	0	0	0	-
45 >	4.13 >	<u>Licensed Discharges to controlled waters ></u>	2	6	3	2	-
47	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
47	4.15	Pollutant release to public sewer	0	0	0	0	-
47	4.16	List 1 Dangerous Substances	0	0	0	0	-
47	4.17	List 2 Dangerous Substances	0	0	0	0	-
47 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	2	1	2	2	-
48	4.19	Pollution inventory substances	0	0	0	0	-
49 >	4.20 >	<u>Pollution inventory waste transfers ></u>	1	0	0	0	-
50	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
51 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
53 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
55 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
56	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
56	5.5	Groundwater vulnerability- local information	None (within 0m)				
57 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	1	8
60 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	5	26
67	5.8	Potable abstractions	0	0	0	0	0
67 >	5.9 >	<u>Source Protection Zones ></u>	2	0	0	0	-
67	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
68 >	6.1 >	<u>Water Network (OS MasterMap) ></u>	7	11	35	-	-



73 >	6.2 >	Surface water features >	1	8	24	-	-
73 >	6.3 >	WFD Surface water body catchments >	2	-	-	-	-
73 >	6.4 >	WFD Surface water bodies >	0	1	2	-	-
74 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
75 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
76 >	7.2 >	Historical Flood Events >	43	14	46	-	-
82 >	7.3 >	Flood Defences >	2	2	10	-	-
83 >	7.4 >	Areas Benefiting from Flood Defences >	0	2	2	-	-
83 >	7.5 >	Flood Storage Areas >	1	0	0	-	-
84 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
85 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
86 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
88 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
89	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
90	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
90	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
90	10.4	Special Protection Areas (SPA)	0	0	0	0	0
90	10.5	National Nature Reserves (NNR)	0	0	0	0	0
91	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
91	10.7	Designated Ancient Woodland	0	0	0	0	0
91	10.8	Biosphere Reserves	0	0	0	0	0
91	10.9	Forest Parks	0	0	0	0	0
92	10.10	Marine Conservation Zones	0	0	0	0	0
92 >	10.11 >	Green Belt >	0	0	0	0	1
92	10.12	Proposed Ramsar sites	0	0	0	0	0



92	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
93	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
93 >	10.15 >	Nitrate Sensitive Areas >	0	0	0	0	2
93 >	10.16 >	Nitrate Vulnerable Zones >	3	0	0	0	1
95 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
96	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
97	11.1	World Heritage Sites	0	0	0	-	-
97	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
97	11.3	National Parks	0	0	0	-	-
97	11.4	Listed Buildings	0	0	0	-	-
98	11.5	Conservation Areas	0	0	0	-	-
98	11.6	Scheduled Ancient Monuments	0	0	0	-	-
98	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
99 >	12.1 >	Agricultural Land Classification >	Grade 2 (within 250m)				
100	12.2	Open Access Land	0	0	0	-	-
100	12.3	Tree Felling Licences	0	0	0	-	-
100 >	12.4 >	Environmental Stewardship Schemes >	3	4	3	-	-
101 >	12.5 >	Countryside Stewardship Schemes >	0	3	6	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
103 >	13.1 >	Priority Habitat Inventory >	7	9	20	-	-
105 >	13.2 >	Habitat Networks >	22	5	10	-	-
107 >	13.3 >	Open Mosaic Habitat >	1	0	0	-	-
107	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
108 >	14.1 >	10k Availability >	Identified (within 500m)				
110	14.2	Artificial and made ground (10k)	0	0	0	0	-
111 >	14.3 >	Superficial geology (10k) >	2	1	4	5	-



112	14.4	Landslip (10k)	0	0	0	0	-
113 >	14.5 >	Bedrock geology (10k) >	3	0	3	1	-
114 >	14.6 >	Bedrock faults and other linear features (10k) >	3	0	1	3	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
115 >	15.1 >	50k Availability >	Identified (within 500m)				
116	15.2	Artificial and made ground (50k)	0	0	0	0	-
116	15.3	Artificial ground permeability (50k)	0	0	-	-	-
117 >	15.4 >	Superficial geology (50k) >	1	1	1	3	-
118 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
118	15.6	Landslip (50k)	0	0	0	0	-
118	15.7	Landslip permeability (50k)	None (within 50m)				
119 >	15.8 >	Bedrock geology (50k) >	1	0	0	0	-
120 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
120 >	15.10 >	Bedrock faults and other linear features (50k) >	2	0	1	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
121 >	16.1 >	BGS Boreholes >	13	3	16	-	-
Page	Section	Natural ground subsidence >					
124 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
125 >	17.2 >	Running sands >	Low (within 50m)				
127 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
129 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
130 >	17.5 >	Landslides >	Low (within 50m)				
132 >	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
134 >	18.1 >	BritPits >	1	0	0	0	-
135 >	18.2 >	Surface ground workings >	19	9	40	-	-
138	18.3	Underground workings	0	0	0	0	0
138	18.4	Underground mining extents	0	0	0	0	-
138	18.5	Historical Mineral Planning Areas	0	0	0	0	-

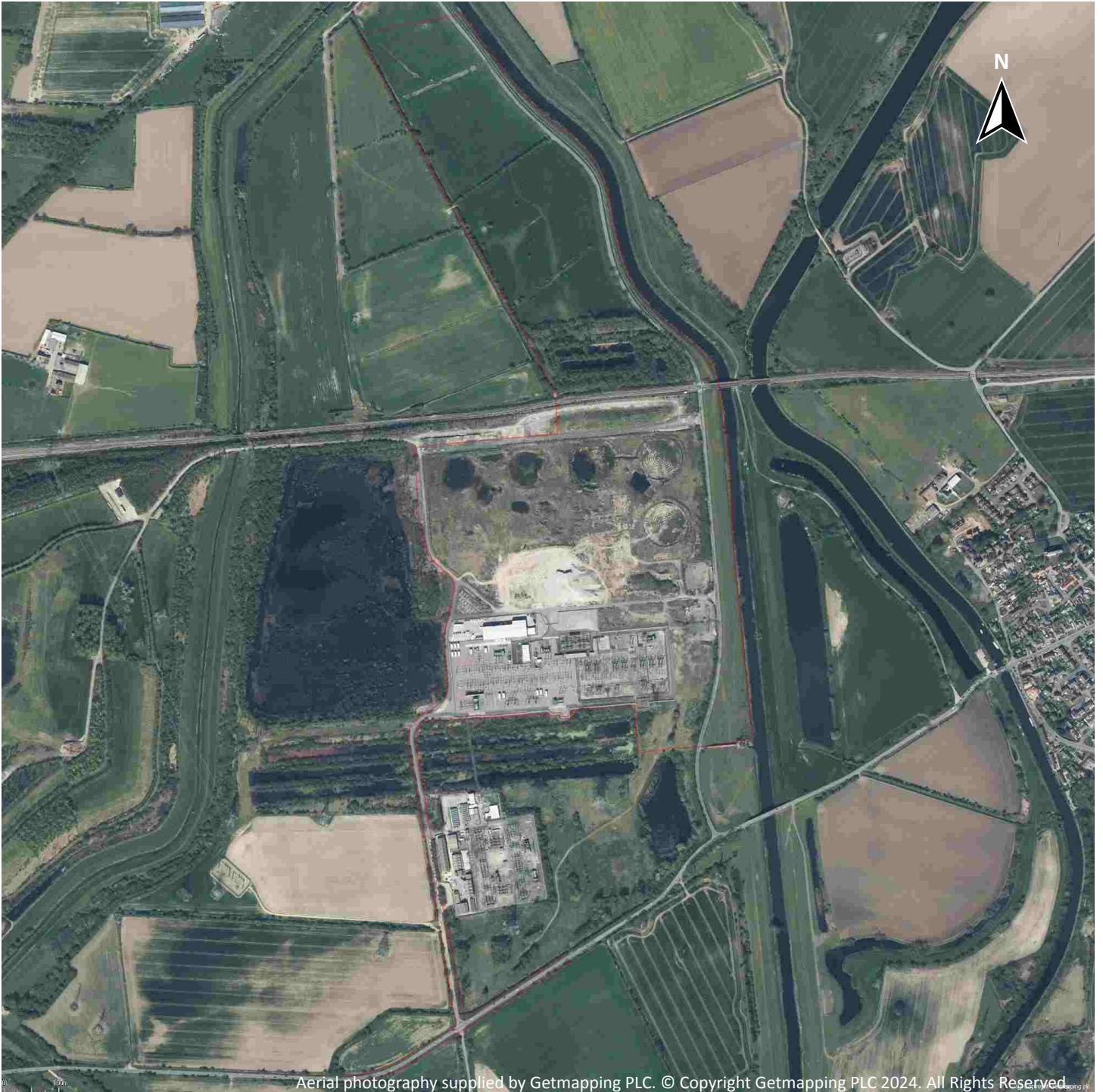


138	18.6	Non-coal mining	0	0	0	0	0
138	18.7	JPB mining areas	None (within 0m)				
139	18.8	The Coal Authority non-coal mining	0	0	0	0	-
139	18.9	Researched mining	0	0	0	0	-
139	18.10	Mining record office plans	0	0	0	0	-
139	18.11	BGS mine plans	0	0	0	0	-
140 >	18.12 >	Coal mining >	Identified (within 0m)				
140	18.13	Brine areas	None (within 0m)				
140	18.14	Gypsum areas	None (within 0m)				
140	18.15	Tin mining	None (within 0m)				
140	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
141	19.1	Natural cavities	0	0	0	0	-
141	19.2	Mining cavities	0	0	0	0	0
141	19.3	Reported recent incidents	0	0	0	0	-
141	19.4	Historical incidents	0	0	0	0	-
142	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
143 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
145 >	21.1 >	BGS Estimated Background Soil Chemistry >	12	4	-	-	-
146	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
146	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
147	22.1	Underground railways (London)	0	0	0	-	-
147	22.2	Underground railways (Non-London)	0	0	0	-	-
148	22.3	Railway tunnels	0	0	0	-	-
148 >	22.4 >	Historical railway and tunnel features >	8	2	4	-	-
149	22.5	Royal Mail tunnels	0	0	0	-	-



149 >	22.6 >	Historical railways >	0	0	1	-	-
149 >	22.7 >	Railways >	6	4	3	-	-
150	22.8	Crossrail 1	0	0	0	0	-
150	22.9	Crossrail 2	0	0	0	0	-
150	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 19/04/2021

Site Area: 51.43ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024

Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 51.43ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024



Recent site history - 2013 aerial photograph



Capture Date: 07/06/2013

Site Area: 51.43ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024

Recent site history - 2009 aerial photograph



Capture Date: 11/09/2009

Site Area: 51.43ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024



Recent site history - 1999 aerial photograph



Capture Date: 03/05/1999

Site Area: 51.43ha



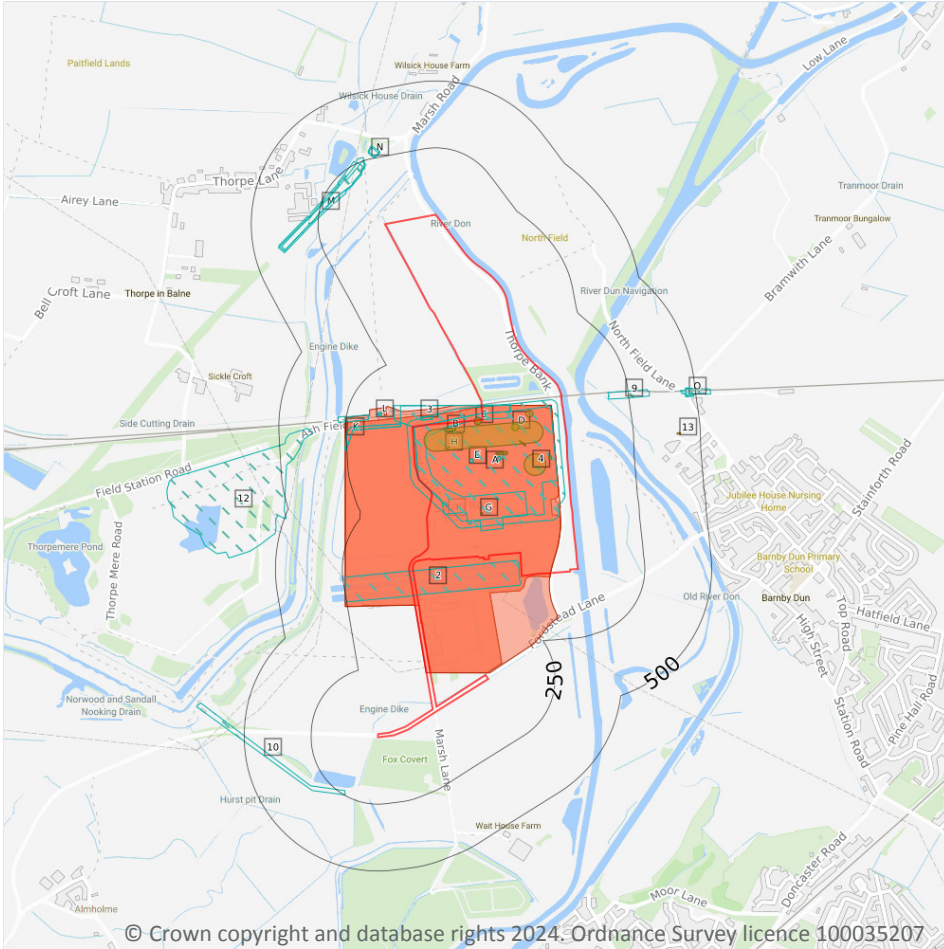
Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024

1 Past land use



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

1.1 Historical industrial land uses

Records within 500m **33**

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
1	On site	Power Station	1992	1431526



ID	Location	Land use	Dates present	Group ID
2	On site	Settling Ponds	1992	1443728
3	On site	Railway Sidings	1992	1532525
A	On site	Unspecified Commercial/Industrial	1992	1411037
A	On site	Chimney	1992	1491802
A	On site	Unspecified Works	1967 - 1980	1494743
A	On site	Chimney	1967 - 1980	1538241
B	On site	Unspecified Tanks	1992	1426334
C	On site	Unspecified Tank	1992	1435259
D	On site	Unspecified Tank	1992	1435260
E	On site	Chimney	1967 - 1980	1460085
E	On site	Railway Sidings	1967 - 1980	1470834
E	On site	Chimney	1992	1502530
J	20m W	Railway Building	1992	1462326
J	20m W	Railway Building	1967 - 1980	1489516
K	44m W	Unspecified Ground Workings	1980 - 1992	1467592
K	44m W	Unspecified Ground Workings	1967	1547658
L	125m W	Railway Building	1933	1482000
L	125m W	Railway Building	1951	1500897
8	167m W	Cuttings	1951	1410395
9	174m E	Cuttings	1904 - 1907	1460730
M	186m NW	Railway Sidings	1951	1540187
M	190m NW	Railway Sidings	1948	1515667
M	191m NW	Railway Sidings	1933	1552000
10	235m S	Unspecified Heap	1951	1417821
N	249m NW	Goods Station	1951	1475254
11	252m W	Cuttings	1951	1410396
N	256m NW	Goods Station	1933 - 1948	1512091
12	377m W	Refuse Heap	1978	1438090



ID	Location	Land use	Dates present	Group ID
O	445m E	Railway Station	1907	1462730
O	459m E	Railway Station	1904	1537544
O	462m E	Railway Station	1933 - 1951	1515997
O	465m E	Railway Buildings	1904	1442401

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	27
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
4	On site	Unspecified Tank	1962	229306
5	On site	Unspecified Tank	1993	229308
6	On site	Unspecified Tank	1993	229309
7	On site	Tanks	1962	244258
A	On site	Tanks	-	222741
A	On site	Tanks	-	222797
A	On site	Tanks	1969 - 1993	249095
B	On site	Tanks	-	222742
B	On site	Tanks	-	222658
B	On site	Tanks	1969 - 1993	246252
C	On site	Unspecified Tank	-	222798
C	On site	Unspecified Tank	1993	229305
D	On site	Unspecified Tank	-	222660
D	On site	Unspecified Tank	1993	229307



ID	Location	Land use	Dates present	Group ID
F	On site	Tanks	-	222581
F	On site	Tanks	-	222583
F	On site	Tanks	1969	234571
F	On site	Tanks	1969	237584
F	On site	Tanks	1993	240453
F	On site	Tanks	1969	249778
G	On site	Unspecified Tank	-	222582
G	On site	Unspecified Tank	-	222659
G	On site	Unspecified Tank	1993	229311
H	On site	Tanks	-	222743
H	On site	Tanks	-	222740
H	On site	Tanks	1969 - 1993	244027
13	413m E	Tanks	1969 - 1978	239195

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

3

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
I	On site	Power Station	-	128663
I	On site	Power Station	-	128852
I	On site	Power Station	1969 - 1993	146484

This data is sourced from Ordnance Survey / Groundsure.



1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

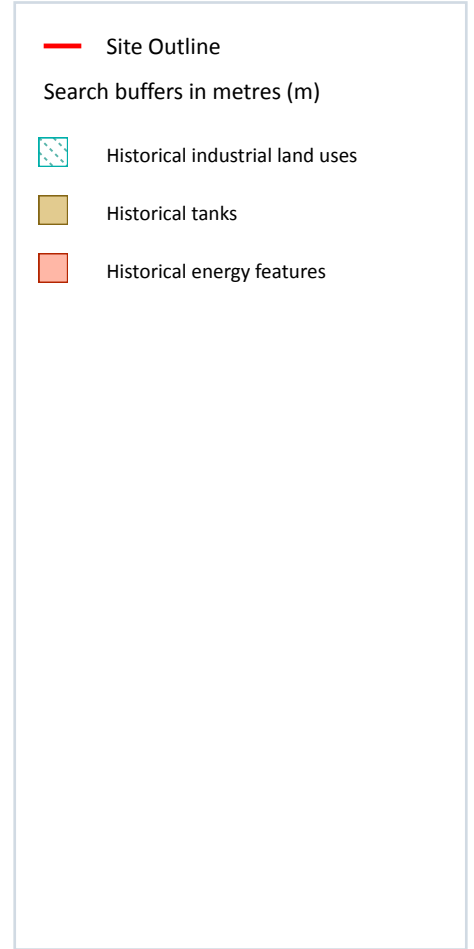
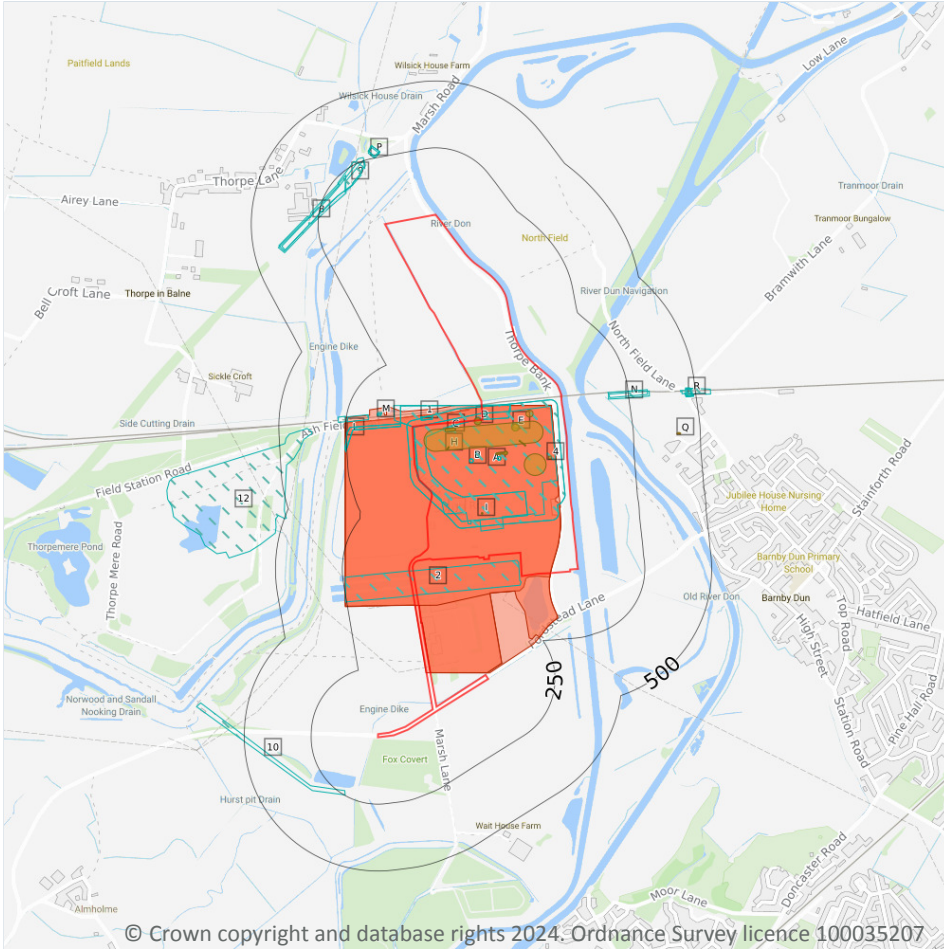
Records within 500m

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



2.1 Historical industrial land uses

Records within 500m

44

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 ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 19](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Railway Sidings	1992	1532525
2	On site	Settling Ponds	1992	1443728
A	On site	Unspecified Works	1980	1494743



ID	Location	Land Use	Date	Group ID
A	On site	Chimney	1967	1538241
A	On site	Chimney	1992	1491802
A	On site	Unspecified Commercial/Industrial	1992	1411037
A	On site	Chimney	1980	1538241
A	On site	Unspecified Works	1967	1494743
B	On site	Chimney	1967	1460085
B	On site	Railway Sidings	1967	1470834
B	On site	Chimney	1992	1502530
B	On site	Chimney	1980	1460085
B	On site	Railway Sidings	1980	1470834
C	On site	Unspecified Tanks	1992	1426334
D	On site	Unspecified Tank	1992	1435259
E	On site	Unspecified Tank	1992	1435260
F	On site	Power Station	1992	1431526
K	20m W	Railway Building	1967	1489516
K	20m W	Railway Building	1992	1462326
K	20m W	Railway Building	1980	1489516
L	44m W	Unspecified Ground Workings	1967	1547658
L	44m W	Unspecified Ground Workings	1992	1467592
L	44m W	Unspecified Ground Workings	1980	1467592
M	125m W	Railway Building	1933	1482000
M	125m W	Railway Building	1951	1500897
7	167m W	Cuttings	1951	1410395
N	174m E	Cuttings	1907	1460730
N	175m E	Cuttings	1904	1460730
8	186m NW	Railway Sidings	1951	1540187
9	189m NW	Railway Sidings	1951	1540187
O	190m NW	Railway Sidings	1948	1515667



ID	Location	Land Use	Date	Group ID
O	191m NW	Railway Sidings	1933	1552000
10	235m S	Unspecified Heap	1951	1417821
P	249m NW	Goods Station	1951	1475254
11	252m W	Cuttings	1951	1410396
P	256m NW	Goods Station	1933	1512091
P	256m N	Goods Station	1948	1512091
12	377m W	Refuse Heap	1978	1438090
R	445m E	Railway Station	1907	1462730
R	459m E	Railway Station	1904	1537544
R	462m E	Railway Station	1933	1515997
R	465m E	Railway Station	1948	1515997
R	465m E	Railway Buildings	1904	1442401
R	465m E	Railway Station	1951	1515997

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

31

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

Features are displayed on the Past land use - un-grouped map on [page 19 >](#)

ID	Location	Land Use	Date	Group ID
3	On site	Unspecified Tank	1993	229308
4	On site	Unspecified Tank	1993	229309
5	On site	Tanks	1962	244258
6	On site	Unspecified Tank	1962	229306
A	On site	Tanks	1993	249095
A	On site	Tanks	-	222797
A	On site	Tanks	-	222741



ID	Location	Land Use	Date	Group ID
A	On site	Tanks	1969	249095
C	On site	Tanks	1993	246252
C	On site	Tanks	-	222658
C	On site	Tanks	-	222742
C	On site	Tanks	1969	246252
D	On site	Unspecified Tank	1993	229305
D	On site	Unspecified Tank	-	222798
E	On site	Unspecified Tank	1993	229307
E	On site	Unspecified Tank	-	222660
G	On site	Tanks	1993	240453
G	On site	Tanks	-	222581
G	On site	Tanks	-	222583
G	On site	Tanks	1969	234571
G	On site	Tanks	1969	249778
G	On site	Tanks	1969	237584
H	On site	Tanks	1993	244027
H	On site	Tanks	-	222740
H	On site	Tanks	-	222743
H	On site	Tanks	1969	244027
I	On site	Unspecified Tank	1993	229311
I	On site	Unspecified Tank	-	222582
I	On site	Unspecified Tank	-	222659
Q	413m E	Tanks	1969	239195
Q	413m E	Tanks	1978	239195

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

4

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

Features are displayed on the Past land use - un-grouped map on [page 19 >](#)

ID	Location	Land Use	Date	Group ID
F	On site	Power Station	1969	146484
J	On site	Power Station	1993	146484
J	On site	Power Station	-	128852
J	On site	Power Station	-	128663

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

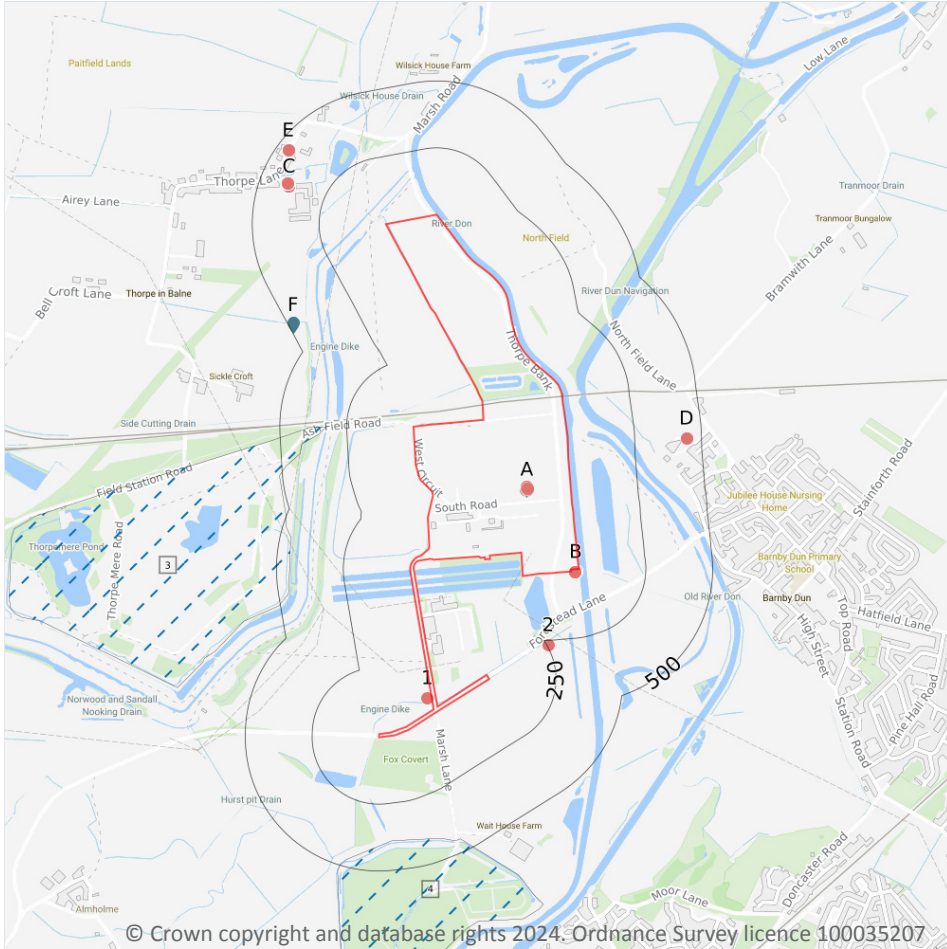
0

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'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



Site Outline

Search buffers in metres (m)

- Active or recent landfill
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

2

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

Features are displayed on the Waste and landfill map on [page 24](#) >

ID	Location	Details
3	325m W	<p>Operator: H J Banks & Co Ltd Site Address: P O Box 1, Barnaby Dun, Doncaster, South Yorkshire, DN3 1ET</p> <p>WML Number: 60837 EPR Reference: HJB001 Landfill type: A07: Industrial Waste Landfill (Factory curtilage) Status: Closure IPPC Reference: - EPR Number: EA/EPR/CP3091SC/T001</p>



ID	Location	Details	
4	389m S	Operator: Pilkington United Kingdom Ltd Site Address: Land/premises At, Arksey Common Lane/ Marsh Lane, Kirk Sandall, Doncaster, South Yorkshire, DN3 1HW	WML Number: 60820 EPR Reference: PIL002 Landfill type: A05: Landfill taking Non-Biodegradeable Wastes Status: Closure IPPC Reference: - EPR Number: EA/EPR/VP3899ZJ/V001

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

3.2 Historical landfill (BGS records)

Records within 500m **0**

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m **0**

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m **0**

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

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

3.5 Historical waste sites

Records within 500m **1**

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

Features are displayed on the Waste and landfill map on [page 24](#) >



ID	Location	Address	Further Details	Date
A	On site	Site Address: Thorpe Marsh Power Station, Marsh Lane, Barnby Dun, DONCASTER, South Yorkshire, DN3 1ET	Type of Site: Waste Composting Facilities Planning application reference: 06/02423/TIPA Description: Scheme comprises completion and restoration of former ash disposal lagoon and coal stocking area to nature conservation and public amenity including clay extraction, composting of green waste, refurbishment of rail sidings and landfilling of non hazardous waste. Construction - planting, railings site works. An application (ref: 06/02423/TIPA) for detailed planning permission was submitted to Doncaster B.C. Tender details remain to be finalised. Detailed plans submitted. Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m	6
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 24 >](#)

ID	Location	Details		
A	On site	Site Name: Thorpe Marsh Power Station Site Address: P O Box 1, Barnaby Dun, Doncaster, South Yorkshire, DN3 1ET Correspondence Address: 7 Chorley West Business Park, Ackhurst Road, Chorley, Lancashire, PR7 1NL	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HJB001 EPR reference: - Operator: H J Banks & Company Limited Waste Management licence No: 60837 Annual Tonnage: 75000	Issue Date: 28/11/1977 Effective Date: 12/07/2002 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred

ID	Location	Details		
A	On site	Site Name: Thorpe Marsh Power Station Site Address: P O Box 1, Barnaby Dun, Doncaster, S Yorks, DN3 1ET Correspondence Address: 7 Chorley West Business Park, Ackhurst Road, Chorley, Lancashire, PR7 1NL	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HJB001 EPR reference: - Operator: H J Banks & Company Limited Waste Management licence No: 60837 Annual Tonnage: 0	Issue Date: 28/11/1977 Effective Date: 12/07/2002 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
A	On site	Site Name: Thorpe Marsh Power Station Site Address: P O Box 1, Barnaby Dun, Doncaster, South Yorkshire, DN3 1ET Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HJB001 EPR reference: EA/EPR/CP3091SC/T001 Operator: H J Banks & Co Ltd Waste Management licence No: 60837 Annual Tonnage: 75000	Issue Date: 28/11/1977 Effective Date: 12/07/2002 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure
A	On site	Site Name: Thorpe Marsh Power Station Site Address: P O Box 1, Barnaby Dun, Doncaster, South Yorkshire, DN3 1ET Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 632647 EPR reference: EA/EPR/CP3091SC Operator: H.j. Banks And Company Limited Waste Management licence No: 60837 Annual Tonnage: 75000	Issue Date: 28/11/1977 Effective Date: 28/11/1977 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure
F	485m NW	Site Name: Vhe Premises Site Address: Engine Lane, Shafton, Barnsley, South Yorkshire, S72 8SP Correspondence Address: Qadeer Khan, 19, Beaumont Road, Darton, Barnsley, South Yorkshire, S75 5JL	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 000183 EPR reference: - Operator: Vhe Construction Plc Waste Management licence No: 65385 Annual Tonnage: 0	Issue Date: 28/01/2005 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
F	485m NW	Site Name: Vhe Premises Site Address: Engine Lane, Shafton, Barnsley, South Yorkshire, S72 8SP Correspondence Address: Vhe Premises, Engine Lane, Shafton, Barnsley, South Yorkshire, S72 8SP	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 000183 EPR reference: EA/EPR/ZP3192ZJ/A001 Operator: V H E Construction Plc Waste Management licence No: 65385 Annual Tonnage: 344	Issue Date: 1/28/2005 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m	100
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 24 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	THORPE MARSH POWER STATION, THORPE MARSH REPORT CENTRE, MARSH LANE, BARNBY DUN, DONCASTER, DN3 1ET	WEX172469	Using waste exemption	Not on a farm	Use of waste in construction
A	On site	Ean Thorpe Marsh Substation Thorpe Bank Doncaster DN3 1ET	EPR/EE5383A T/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
A	On site	Thorpe Marsh Report Centre Thorpe Marsh Power Station Marsh Lane DONCASTER South Yorkshire DN3 1ET	EPR/GF0630JC /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
A	On site	Thorpe Marsh Substation Marsh Lane Barnby Dun DN3 1ET	EPR/RE5640TZ /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction



ID	Location	Site	Reference	Category	Sub-Category	Description
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Disposing of waste exemption	Non-Agricultural Waste Only	Deposit of waste from dredging of inland waters
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste at a water treatment works
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of waste at a waste water treatment works
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Using waste exemption	Non-Agricultural Waste Only	Spreading waste on non-agricultural land to confer benefit
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Using waste exemption	Non-Agricultural Waste Only	Spreading of plant matter to confer benefit
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Using waste exemption	Non-Agricultural Waste Only	Use of baled end-of-life tyres in construction
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste derived biodiesel as fuel
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste for a specified purpose



ID	Location	Site	Reference	Category	Sub-Category	Description
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Treating waste exemption	Non-Agricultural Waste Only	Screening and blending of waste
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Disposing of waste exemption	Non-Agricultural Waste Only	Burning waste in the open
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste aerosol cans
B	11m SE	Ea Beck Outfall Thorpe Bank Doncaster DN3 1ET	EPR/JE5489VB /A001	Using waste exemption	Non-Agricultural Waste Only	Use of mulch
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Disposing of waste exemption	Non-Agricultural Waste Only	Deposit of waste from dredging of inland waters
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste at a water treatment works
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of waste at a waste water treatment works
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Using waste exemption	Non-Agricultural Waste Only	Spreading waste on non-agricultural land to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Using waste exemption	Non-Agricultural Waste Only	Spreading of plant matter to confer benefit
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Using waste exemption	Non-Agricultural Waste Only	Use of baled end-of-life tyres in construction
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste derived biodiesel as fuel
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste for a specified purpose
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Disposing of waste exemption	Non-Agricultural Waste Only	Burning waste in the open
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste aerosol cans
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Treating waste exemption	Non-Agricultural Waste Only	Screening and blending of waste
B	13m SE	EA Beck Outfall Thorpe in Balne South Yorkshire DN3 1ET	EPR/QE5089V P/A001	Using waste exemption	Non-Agricultural Waste Only	Use of mulch
1	17m S	-	WEX359607	Storing waste exemption	On a farm	Storage of sludge
2	254m S	-	WEX359608	Storing waste exemption	On a farm	Storage of sludge
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX377946	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX377946	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX101829	Using waste exemption	On a farm	Use of waste in construction
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX106618	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising



ID	Location	Site	Reference	Category	Sub-Category	Description
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX106618	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Storing waste exemption	On a farm	Storage of waste in secure containers
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX049918	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX049918	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX049918	Using waste exemption	On a farm	Use of waste for a specified purpose
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Using waste exemption	On a farm	Use of waste for a specified purpose
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice



ID	Location	Site	Reference	Category	Sub-Category	Description
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Disposing of waste exemption	On a farm	Burning waste in the open
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX049918	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX050005	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX248662	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	389m NW	ELM STONE FARM, THORPE IN BALNE, DONCASTER, DN6 0DZ	WEX248662	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	397m NW	-	WEX334039	Using waste exemption	On a farm	Use of waste in construction
C	397m NW	-	WEX334039	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	397m NW	-	WEX334039	Using waste exemption	On a farm	Use of waste for a specified purpose
C	397m NW	-	WEX334039	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
C	397m NW	-	WEX334039	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
C	397m NW	-	WEX334039	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
C	397m NW	-	WEX334039	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	397m NW	-	WEX334039	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	397m NW	-	WEX334039	Storing waste exemption	On a farm	Storage of waste in secure containers



ID	Location	Site	Reference	Category	Sub-Category	Description
C	397m NW	-	WEX334039	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	397m NW	-	WEX334039	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
C	397m NW	-	WEX334039	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	397m NW	-	WEX334039	Disposing of waste exemption	On a farm	Burning waste in the open
C	397m NW	-	WEX205825	Using waste exemption	On a Farm	Use of waste for a specified purpose
C	397m NW	-	WEX205825	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
C	397m NW	-	WEX205825	Storing waste exemption	On a Farm	Storage of waste in secure containers
C	397m NW	-	WEX205825	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
C	397m NW	-	WEX205825	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	397m NW	-	WEX205825	Treating waste exemption	On a Farm	Preparatory treatments (baling, sorting, shredding etc)
C	397m NW	-	WEX205825	Treating waste exemption	On a Farm	Cleaning, washing, spraying or coating relevant waste
C	397m NW	-	WEX205825	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
C	397m NW	-	WEX205825	Using waste exemption	On a Farm	Use of waste in construction
C	397m NW	-	WEX205825	Disposing of waste exemption	On a Farm	Burning waste in the open
C	397m NW	-	WEX205825	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice



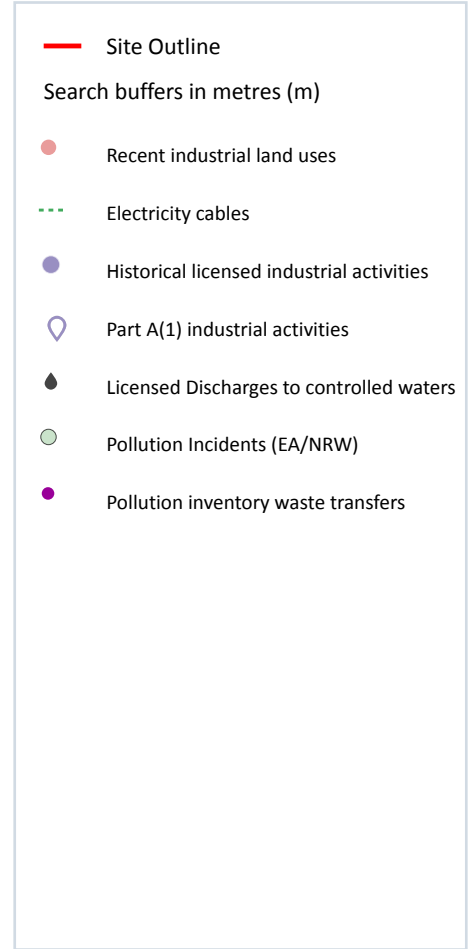
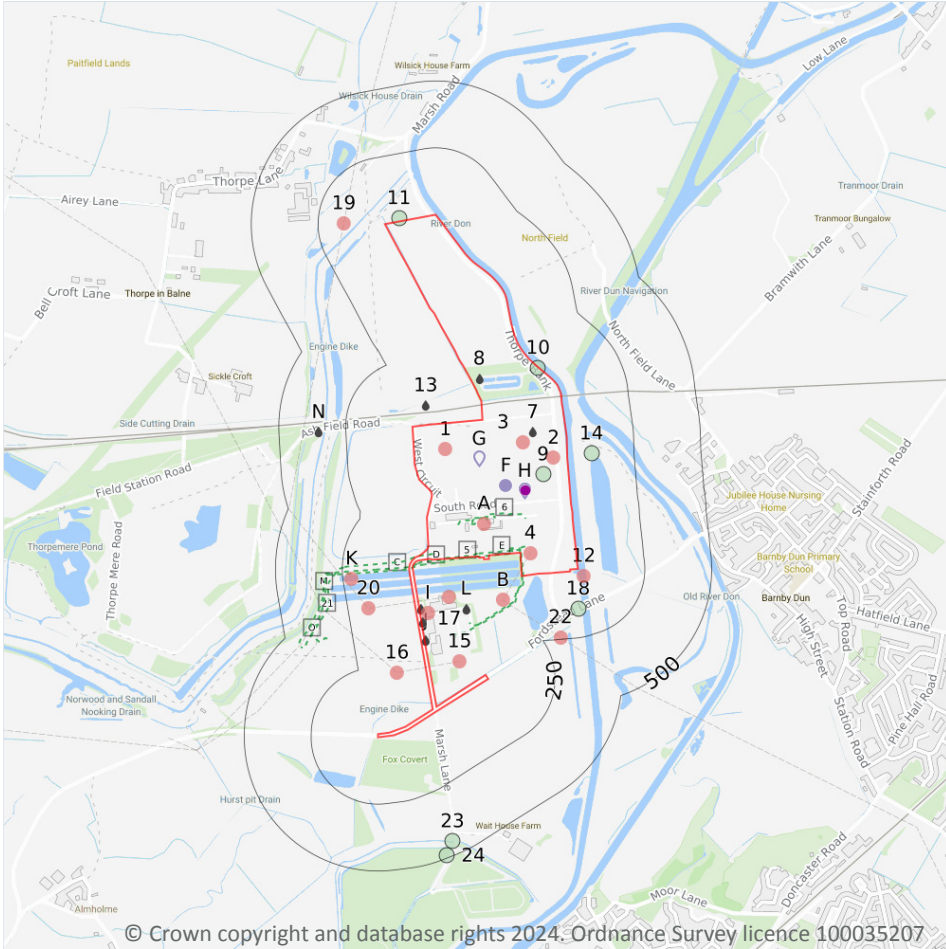
ID	Location	Site	Reference	Category	Sub-Category	Description
C	397m NW	-	WEX205825	Treating waste exemption	On a Farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
C	397m NW	-	WEX205825	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
D	443m E	WHITE HOUSE FARM, BRAMWITH LANE, BARNBY DUN, DONCASTER, DN3 1ED	WEX253487	Using waste exemption	On a farm	Use of waste in construction
D	443m E	WHITE HOUSE FARM, BRAMWITH LANE, BARNBY DUN, DONCASTER, DN3 1ED	WEX115871	Disposing of waste exemption	On a farm	Burning waste in the open
E	458m NW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
E	458m NW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Treating waste exemption	Agricultural Waste Only	Cleaning, washing, spraying or coating relevant waste
E	458m NW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Treating waste exemption	Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
E	458m NW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	458m NW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Using waste exemption	Agricultural Waste Only	Spreading of plant matter to confer benefit
E	458m NW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
E	458m NW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	458m NW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
E	458m NW	Elm Stone Farm DONCASTER South Yorkshire DN6 0DZ	EPR/CH0672JD /A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit



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



4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m

15

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 37 >](#)

ID	Location	Company	Address	Activity	Category
1	On site	Travelling Crane	South Yorkshire, DN5	Travelling Cranes and Gantries	Industrial Features
2	On site	Tank	South Yorkshire, DN5	Tanks (Generic)	Industrial Features
3	On site	Travelling Crane	South Yorkshire, DN5	Travelling Cranes and Gantries	Industrial Features



ID	Location	Company	Address	Activity	Category
4	On site	Pylon	South Yorkshire, DN3	Electrical Features	Infrastructure and Facilities
A	On site	Electricity Distribution Site	South Yorkshire, DN3	Electrical Features	Infrastructure and Facilities
I	28m S	Mast	South Yorkshire, DN3	Telecommunications Features	Infrastructure and Facilities
12	34m SE	Outfall	South Yorkshire, DN3	Waste Storage, Processing and Disposal	Infrastructure and Facilities
15	95m S	Pylon	South Yorkshire, DN3	Electrical Features	Infrastructure and Facilities
16	109m S	Pylon	South Yorkshire, DN3	Electrical Features	Infrastructure and Facilities
B	114m S	Pylon	South Yorkshire, DN3	Electrical Features	Infrastructure and Facilities
17	118m S	Pylon	South Yorkshire, DN3	Electrical Features	Infrastructure and Facilities
19	154m NW	Pylon	South Yorkshire, DN6	Electrical Features	Infrastructure and Facilities
20	174m SW	Pylon	South Yorkshire, DN3	Electrical Features	Infrastructure and Facilities
K	218m SW	Settling Pond	South Yorkshire, DN5	Settling, Balancing and Silt Ponds	Bodies of Water
22	243m S	Pylon	South Yorkshire, DN3	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.



4.3 Electricity cables

Records within 500m

21

High voltage underground electricity transmission cables.

Features are displayed on the Current industrial land use map on [page 37 >](#)

ID	Location	Cable Set	Cable Route	Details	
5	On site	THORPE MARSH - ZZG003B CABLE SECT 01	THORPE MARSH - WEST MELTON 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? No
6	On site	SGT6 66KV CABLE	THORPE MARSH 275KV S/S	Cable Make: PIRELLI 66KV O Cable Type: A/C Operating Voltage (kV): 66	Year of installation: 1963 Cable in tunnel? Not specified
A	On site	-	-	Cable Make: - Cable Type: A/C Operating Voltage (kV): 66	Year of installation: Not specified Cable in tunnel? Not specified
A	On site	-	-	Cable Make: - Cable Type: A/C Operating Voltage (kV): 66	Year of installation: Not specified Cable in tunnel? Not specified
A	On site	-	-	Cable Make: - Cable Type: A/C Operating Voltage (kV): 0	Year of installation: Not specified Cable in tunnel? Not specified
B	On site	SGT1 275KV CABLE	THORPE MARSH 400KV S/S	Cable Make: BICC 275KV (OI) Cable Type: A/C Operating Voltage (kV): 275	Year of installation: 1995 Cable in tunnel? Not specified
B	On site	SGT3 275KV CABLE	THORPE MARSH 400KV S/S	Cable Make: BICC 275KV (OI) Cable Type: A/C Operating Voltage (kV): 275	Year of installation: 1995 Cable in tunnel? Not specified
C	On site	THORPE MARSH - ZZG003B CABLE SECT 03	THORPE MARSH - WEST MELTON 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? No
C	On site	THORPE MARSH - ZZG003 CABLE SECT 03	THORPE MARSH - WEST MELTON 2	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? No
C	On site	THORPE MARSH - WMEL CSEC CABLE SECT 01	THORPE MARSH - WEST MELTON 2	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? Yes



ID	Location	Cable Set	Cable Route	Details	
D	On site	THORPE MARSH - ZZG003B CABLE SECT 02	THORPE MARSH - WEST MELTON 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? No
E	On site	THORPE MARSH - ZZG003B CABLE SECT 01B	THORPE MARSH - WEST MELTON 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? No
E	On site	THORPE MARSH - ZZG003 CABLE SECT 01	THORPE MARSH - WEST MELTON 2	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? No
D	1m S	THORPE MARSH - ZZG003 CABLE SECT 02	THORPE MARSH - WEST MELTON 2	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? No
K	126m SW	THORPE MARSH - ZZG003B CABLE SECT 04	THORPE MARSH - WEST MELTON 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? No
K	146m SW	THORPE MARSH - ZZG003 CABLE SECT 04	THORPE MARSH - WEST MELTON 2	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? No
21	241m SW	THORPE MARSH - WMEL CSEC CABLE SECT 02	THORPE MARSH - WEST MELTON 2	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? Yes
M	278m SW	THORPE MARSH - ZZG003B CABLE SECT 05	THORPE MARSH - WEST MELTON 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? No
M	292m SW	THORPE MARSH - ZZG003 CABLE SECT 05	THORPE MARSH - WEST MELTON 2	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? No
O	357m SW	THORPE MARSH - ZZG003 CABLE SECT 06	THORPE MARSH - WEST MELTON 2	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? Not specified
O	360m SW	THORPE MARSH - ZZG003B CABLE SECT 06	THORPE MARSH - WEST MELTON 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 275	Year of installation: Not specified Cable in tunnel? Not specified

This data is sourced from National Grid.



4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.



4.9 Historical licensed industrial activities (IPC)

Records within 500m

3

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

Features are displayed on the Current industrial land use map on [page 37 >](#)

ID	Location	Details	
F	On site	Operator: Rwe Npower Plc Address: Thorpe Marsh Power Station, Marsh Lane, Barnby Dun, Doncaster, South Yorkshire, DN3 1ET Process: Combustion Processes Permit Number: AA2437	Original Permit Number: IPCAIRAPP Date Approved: 8-4-1993 Effective Date: 8-4-1993 Status: Superseded By Variation
F	On site	Operator: Rwe Npower Plc Address: Thorpe Marsh Power Station, Marsh Lane, Barnby Dun, Doncaster, South Yorkshire, DN3 1ET Process: Combustion Processes Permit Number: AL2292	Original Permit Number: IPCMINVAR Date Approved: 1-12-1993 Effective Date: 1-12-1993 Status: Superseded By Variation
F	On site	Operator: Rwe Npower Plc Address: Thorpe Marsh Power Station, Marsh Lane, Barnby Dun, Doncaster, South Yorkshire, DN3 1ET Process: Combustion Processes Permit Number: AM6757	Original Permit Number: IPCMINVAR Date Approved: 21-3-1994 Effective Date: 21-3-1994 Status: Surrendered

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

11

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

Features are displayed on the Current industrial land use map on [page 37 >](#)

ID	Location	Details	
G	On site	Operator: THORPE MARSH POWER LIMITED Installation Name: Thorpe Marsh Power Station EPR/RP3238KG Process: COMBUSTION; ANY FUEL =>50MW Permit Number: RP3238KG Original Permit Number: RP3238KG	EPR Reference: EPR/RP3238KG Issue Date: 01/01/2016 Effective Date: 01/01/2016 Last date noted as effective: 23/11/2023 Status: Effective



ID	Location	Details	
G	On site	Operator: Thorpe Marsh Power Ltd Installation Name: Thorpe Marsh Power Station EPR/RP3238KG Process: COMBUSTION; ANY FUEL =>50MW Permit Number: MP3132RR Original Permit Number: RP3238KG	EPR Reference: - Issue Date: 15/12/2015 Effective Date: 01/01/2016 Last date noted as effective: 21/03/2023 Status: Effective
H	On site	Operator: NATIONAL GRID ELECTRICITY TRANSMISSION PLC Installation Name: Thorpe Marsh Oil Management Unit EPR/HP3038MR Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: HP3038MR Original Permit Number: HP3038MR	EPR Reference: EPR/HP3038MR Issue Date: 01/11/2013 Effective Date: 01/11/2013 Last date noted as effective: 08/11/2023 Status: Effective
H	On site	Operator: NATIONAL GRID ELECTRICITY TRANSMISSION PLC Installation Name: THORPE MARSH OIL MANAGEMENT UNIT Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: AP3731NZ Original Permit Number: HP3038MR	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2013 Status: DETERMINATION
H	On site	Operator: National Grid Electricity Transmission Plc Installation Name: Thorpe Marsh Oil Management Unit EPR/HP3038MR Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: JP3438ZA Original Permit Number: HP3038MR	EPR Reference: - Issue Date: 01/02/2013 Effective Date: 01/02/2013 Last date noted as effective: 21/03/2023 Status: Superseded
H	On site	Operator: National Grid Electricity Transmission Plc Installation Name: Thorpe Marsh Oil Management Unit EPR/HP3038MR Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: RP3331FN Original Permit Number: HP3038MR	EPR Reference: - Issue Date: 20/12/2011 Effective Date: 20/12/2011 Last date noted as effective: 21/03/2023 Status: Superseded
H	On site	Operator: National Grid Electricity Transmission Plc Installation Name: Thorpe Marsh Oil Management Unit EPR/HP3038MR Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: LP3837TD Original Permit Number: HP3038MR	EPR Reference: - Issue Date: 08/11/2010 Effective Date: 08/11/2010 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
H	On site	Operator: National Grid Electricity Transmission Plc Installation Name: Thorpe Marsh Oil Management Unit EPR/HP3038MR Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: RP3931NH Original Permit Number: HP3038MR	EPR Reference: - Issue Date: 01/11/2013 Effective Date: 01/11/2013 Last date noted as effective: 21/03/2023 Status: Effective
H	On site	Operator: NATIONAL GRID ELECTRICITY TRANSMISSION PLC Installation Name: Thorpe Marsh Oil Management Unit EPR/HP3038MR Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING OIL RE-REFINING OR OTHER REUSES OF OIL Permit Number: HP3038MR Original Permit Number: HP3038MR	EPR Reference: EPR/HP3038MR Issue Date: 08/03/2023 Effective Date: 01/11/2013 Last date noted as effective: 23/11/2023 Status: Effective
H	On site	Operator: NATIONAL GRID ELECTRICITY TRANSMISSION PLC Installation Name: Thorpe Marsh Oil Management Unit EPR/HP3038MR Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: HP3038MR Original Permit Number: HP3038MR	EPR Reference: EPR/HP3038MR Issue Date: 08/03/2023 Effective Date: 01/11/2013 Last date noted as effective: 23/11/2023 Status: Effective
H	On site	Operator: NATIONAL GRID ELECTRICITY TRANSMISSION PLC Installation Name: Thorpe Marsh Oil Management Unit EPR/HP3038MR Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: HP3038MR Original Permit Number: HP3038MR	EPR Reference: EPR/HP3038MR Issue Date: 08/03/2023 Effective Date: 01/11/2013 Last date noted as effective: 23/11/2023 Status: Effective

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

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

Records within 500m

0

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

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

13

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 37 >](#)

ID	Location	Address	Details	
7	On site	CEGB THORPEMARSH POWER STATION THOR, PEARSH DONCASTER^	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: 1478(T) Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: 01/01/1982 Effective Date: 01/01/1982 Revocation Date: 16/06/1993
8	On site	NATIONAL POWER THORPE MARSH POWER S, TATION DONCASTER CONSENT NO 7036	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: WRA7036 Permit Version: 1 Receiving Water: ENGINE DYKE	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 06/05/1994 Effective Date: 06/05/1994 Revocation Date: 11/06/2002
I	3m S	400 KV SUBSTATION, MARSH LANE, THORPE MARSH, DONCASTER, UK	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA7489 Permit Version: 1 Receiving Water: ENGINE DIKE	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 21/01/1999 Effective Date: 21/01/1999 Revocation Date: 24/11/2004
I	3m S	400 KV SUBSTATION, MARSH LANE, THORPE MARSH, DONCASTER, UK	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA7489 Permit Version: 1 Receiving Water: ENGINE DIKE	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 21/01/1999 Effective Date: 21/01/1999 Revocation Date: 24/11/2004
J	3m S	400 KV SUBSTATION, MARSH LANE, THORPE MARSH, DONCASTER, UK	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA8358 Permit Version: 1 Receiving Water: ENGINE DYKE	Status: SURRENDERED UNDER EPR 2010 Issue date: 27/09/2004 Effective Date: 27/09/2004 Revocation Date: 22/03/2013



ID	Location	Address	Details	
J	3m S	400 KV SUBSTATION, MARSH LANE, THORPE MARSH, DONCASTER, UK	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: WRA8358 Permit Version: 1 Receiving Water: ENGINE DYKE	Status: SURRENDERED UNDER EPR 2010 Issue date: 27/09/2004 Effective Date: 27/09/2004 Revocation Date: 22/03/2013
I	5m S	400 KV SUBSTATION, MARSH LANE, THORPE MARSH, DONCASTER, UK	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA8358 Permit Version: 1 Receiving Water: ENGINE DYKE	Status: SURRENDERED UNDER EPR 2010 Issue date: 27/09/2004 Effective Date: 27/09/2004 Revocation Date: 22/03/2013
I	5m S	400 KV SUBSTATION, MARSH LANE, THORPE MARSH, DONCASTER, UK	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: WRA8358 Permit Version: 1 Receiving Water: ENGINE DYKE	Status: SURRENDERED UNDER EPR 2010 Issue date: 27/09/2004 Effective Date: 27/09/2004 Revocation Date: 22/03/2013
13	72m W	CEGB, THORPE MARSH POWER STATION, B, ARNBY DUN ASH LAGOON.	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: 3441 Permit Version: 1 Receiving Water: ENGINE DYKE	Status: REVOKED - UNSPECIFIED Issue date: 01/01/1982 Effective Date: 01/01/1982 Revocation Date: 16/06/1993
L	171m S	400 KV SUBSTATION, MARSH LANE, THORPE MARSH, DONCASTER, UK	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA7489 Permit Version: 1 Receiving Water: ENGINE DIKE	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 21/01/1999 Effective Date: 21/01/1999 Revocation Date: 24/11/2004
L	171m S	400 KV SUBSTATION, MARSH LANE, THORPE MARSH, DONCASTER, UK	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA7489 Permit Version: 1 Receiving Water: ENGINE DIKE	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 21/01/1999 Effective Date: 21/01/1999 Revocation Date: 24/11/2004
N	351m W	THORPE MARSH POWER STATION, DONCASTER, SOUTH YORKSHIRE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT) Permit Number: 3353 Permit Version: 1 Receiving Water: TRIBUTARY OF EA BECK	Status: REVOKED - UNSPECIFIED Issue date: 01/01/1982 Effective Date: 01/01/1982 Revocation Date: 16/06/1993
N	351m W	THORPE MARSH POWER STATION, DONCASTER, SOUTH YORKSHIRE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT) Permit Number: WRA7037 Permit Version: 1 Receiving Water: TRIB OF EA BECK	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 06/05/1994 Effective Date: 06/05/1994 Revocation Date: -



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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m

0

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

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

4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

7

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

Features are displayed on the Current industrial land use map on [page 37 >](#)



ID	Location	Details	
9	On site	Incident Date: 19/09/2003 Incident Identification: 191255 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
10	On site	Incident Date: 21/09/2003 Incident Identification: 191447 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
11	12m NW	Incident Date: 17/03/2003 Incident Identification: 143483 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
14	91m E	Incident Date: 10/03/2003 Incident Identification: 142053 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
18	142m SE	Incident Date: 18/08/2003 Incident Identification: 182948 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
23	449m S	Incident Date: 26/11/2003 Incident Identification: 203598 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
24	488m S	Incident Date: 23/05/2003 Incident Identification: 160368 Pollutant: Specific Waste Materials Pollutant Description: Vehicles and Vehicle Parts	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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



4.20 Pollution inventory waste transfers

Records within 500m **1**

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.

Features are displayed on the Current industrial land use map on [page 37 >](#)

ID: H, Location: On site, Permit: HP3038MR
 Operator: National Grid Electricity Transmission Plc
 Activity: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D
 Address: Thorpe Marsh Oil Management Unit Thorpe Bank Barnby Dun South Yorkshire DN3 1ET
 Sector: Hazardous Waste, Sub-sector: Hazardous Waste
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	1	absolute value	20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	No
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	1	absolute value	16 01 22	components not otherwise specified	No
R9	Oil e-refining or other reuses of oil	32	absolute value	13 03 07	mineral-based non-chlorinated insulating and heat transmission oils	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	5.09	absolute value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.15	absolute value	16 01 21	hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	3	absolute value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes

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

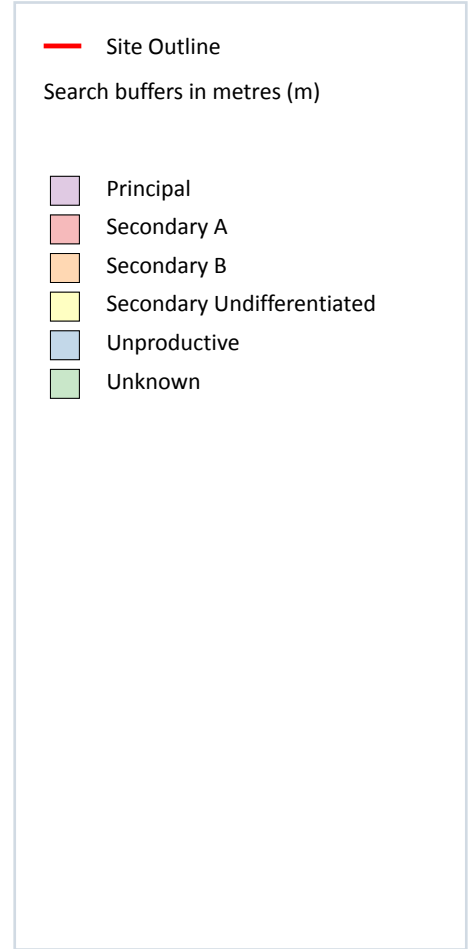
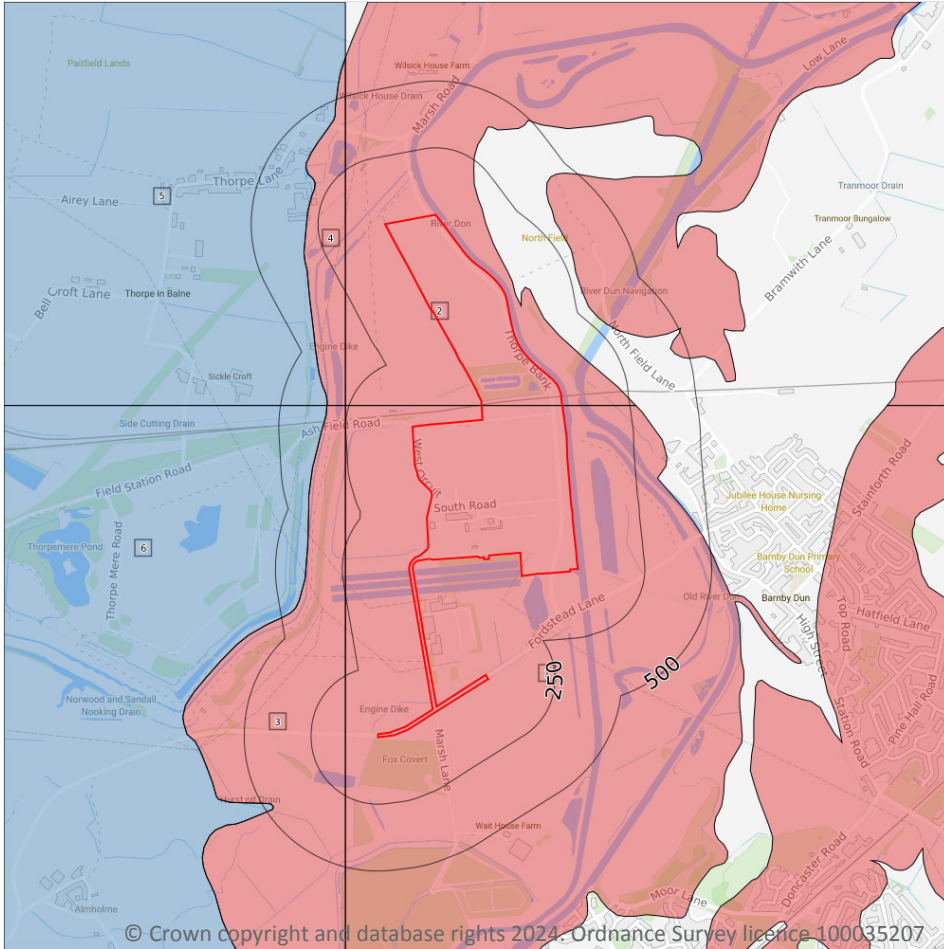
4.21 Pollution inventory radioactive waste

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

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

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

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

6

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 51](#) >

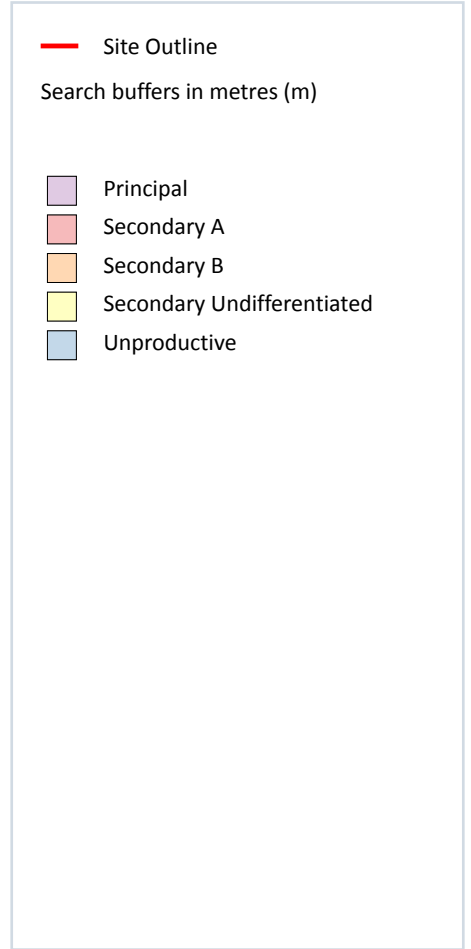
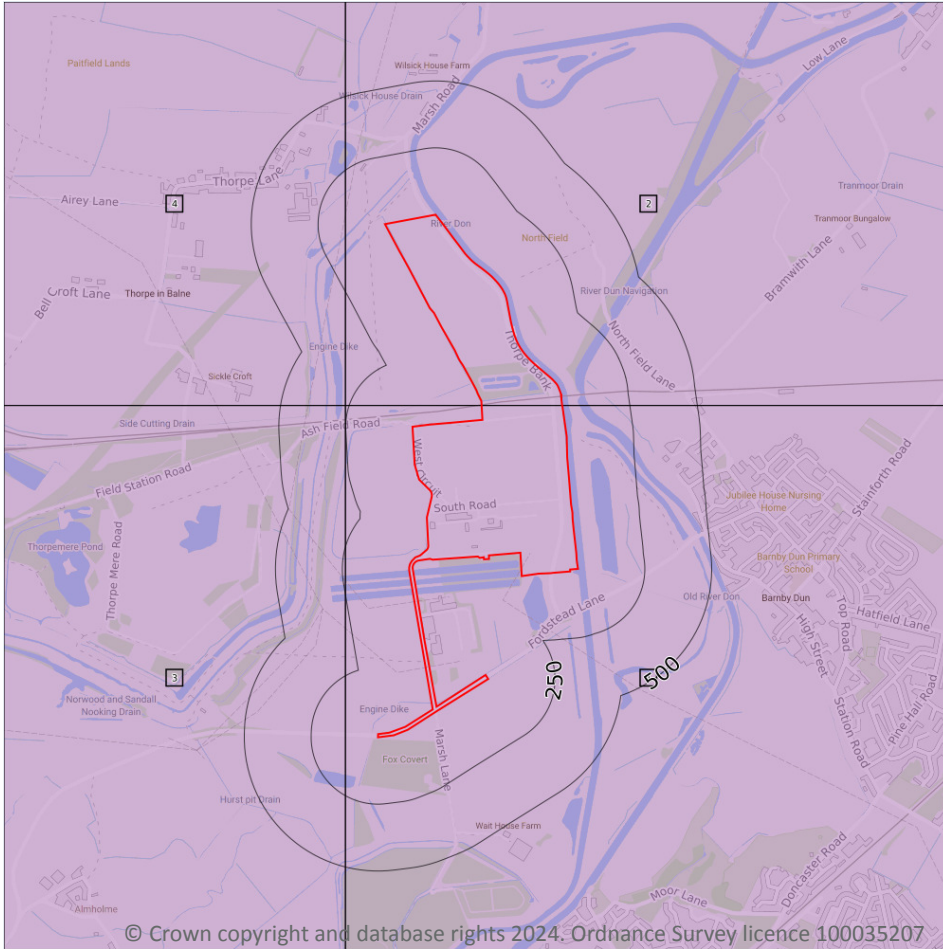
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary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

ID	Location	Designation	Description
3	122m 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
4	148m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	292m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
6	326m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

4

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 53 >](#)

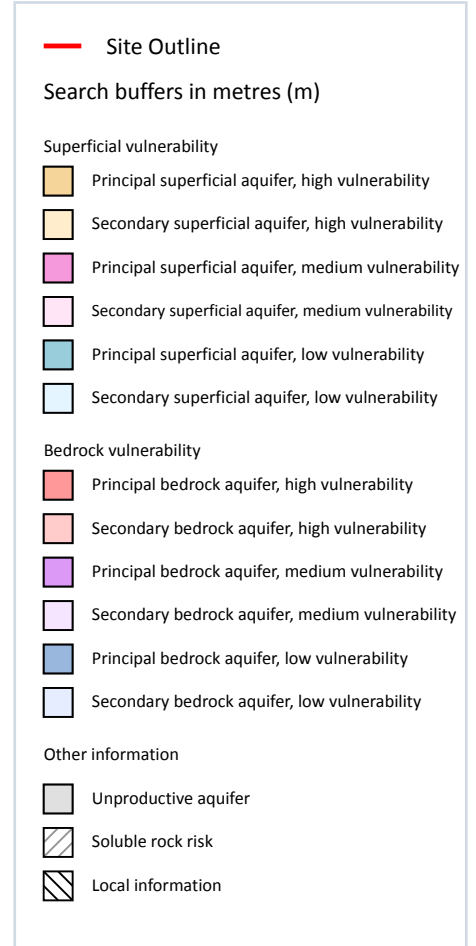
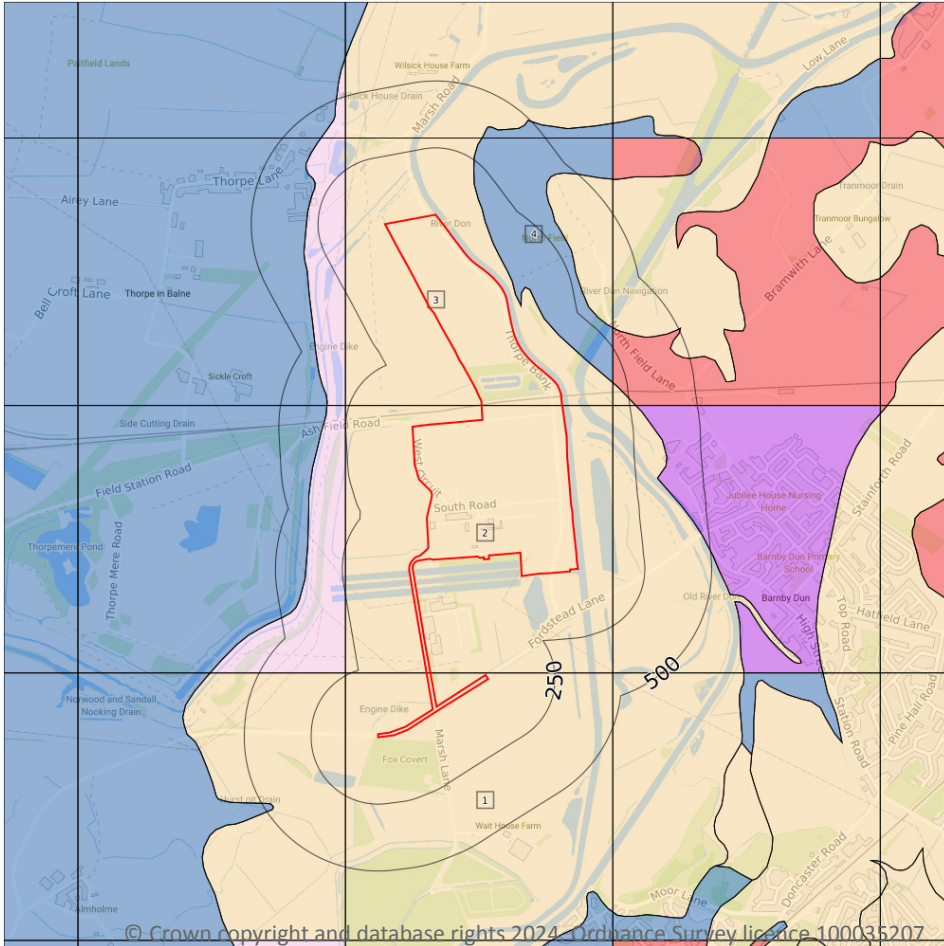
ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site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

ID	Location	Designation	Description
3	122m SW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	148m NW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

4

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

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

Features are displayed on the Groundwater vulnerability map on [page 55 >](#)

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
4	36m N	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

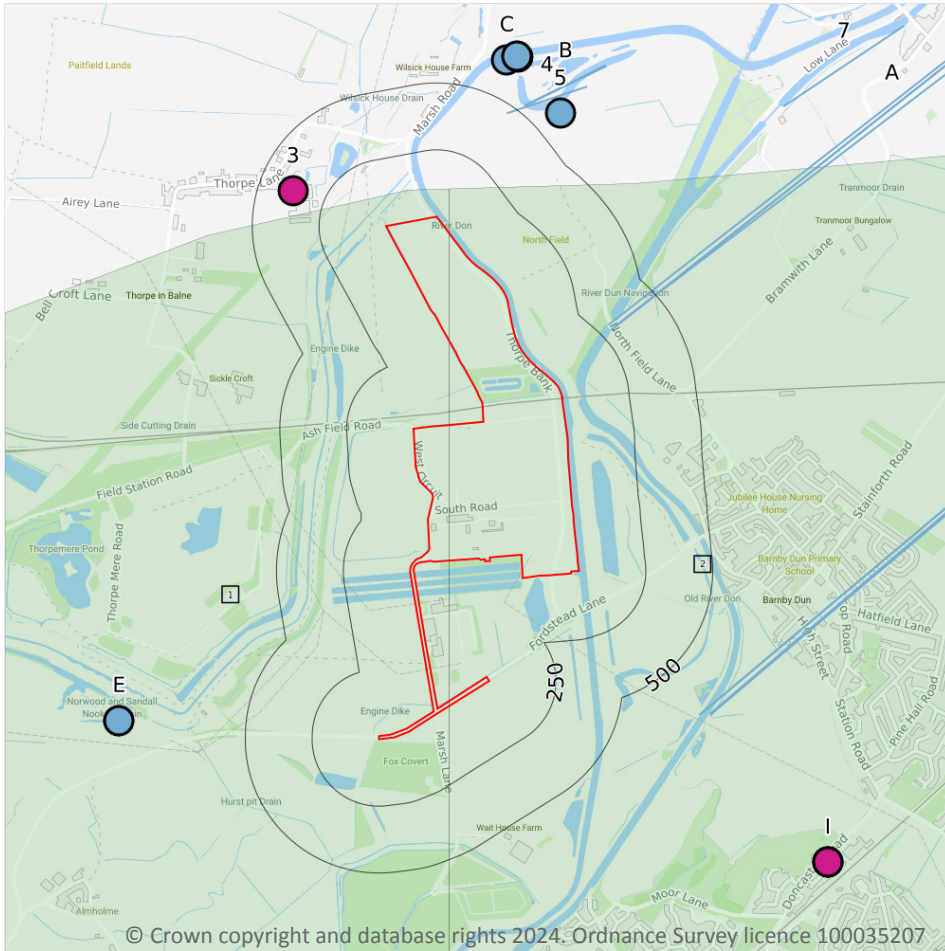
0

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

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



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

9

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 57 >](#)

ID	Location	Details	
3	372m NW	Status: Historical Licence No: 2/27/09/184 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE-SHERWOOD SANDSTONE-ELMSTONE STONE FARM Data Type: Point Name: PARKIN-COATES Easting: 459800 Northing: 410810	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/01/2002 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 19/01/2002 Version End Date: -
-	1263m S	Status: Active Licence No: 2/27/09/106 Details: Dust Suppression Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - KIRK SANDALL Data Type: Point Name: TRACKWORK LTD Easting: 460910 Northing: 407720	Annual Volume (m ³): 306600 Max Daily Volume (m ³): 840 Original Application No: NPS/WR/010940 Original Start Date: 17/11/1971 Expiry Date: 31/03/2029 Issue No: 103 Version Start Date: 08/11/2012 Version End Date: -
-	1263m S	Status: Active Licence No: 2/27/09/106 Details: Effluent/Slurry Dilution Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - KIRK SANDALL Data Type: Point Name: TRACKWORK LTD Easting: 460910 Northing: 407720	Annual Volume (m ³): 306600 Max Daily Volume (m ³): 840 Original Application No: NPS/WR/010940 Original Start Date: 17/11/1971 Expiry Date: 31/03/2029 Issue No: 103 Version Start Date: 08/11/2012 Version End Date: -
-	1263m S	Status: Active Licence No: 2/27/09/106 Details: Boiler Feed Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - KIRK SANDALL Data Type: Point Name: TRACKWORK LTD Easting: 460910 Northing: 407720	Annual Volume (m ³): 306600 Max Daily Volume (m ³): 840 Original Application No: NPS/WR/010940 Original Start Date: 17/11/1971 Expiry Date: 31/03/2029 Issue No: 103 Version Start Date: 08/11/2012 Version End Date: -



ID	Location	Details	
-	1263m S	Status: Historical Licence No: 2/27/09/106 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - TRIASSIC SANDSTONE - KIRK SANDALL Data Type: Point Name: FRIGOSCANDIA DISTRIBUTIONS LIMITED Easting: 460910 Northing: 407720	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/11/1971 Expiry Date: - Issue No: 101 Version Start Date: 25/01/2000 Version End Date: -
-	1263m S	Status: Historical Licence No: 2/27/09/106 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - KIRK SANDALL Data Type: Point Name: TRACKWORK LTD Easting: 460910 Northing: 407720	Annual Volume (m ³): 4546 Max Daily Volume (m ³): 200 Original Application No: - Original Start Date: 17/11/1971 Expiry Date: - Issue No: 102 Version Start Date: 01/12/2001 Version End Date: -
I	1432m SE	Status: Historical Licence No: 2/27/09/003 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: THE MALTINGS TIMBER CO Easting: 461800 Northing: 408300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 10/06/1999 Version End Date: -
I	1432m SE	Status: Historical Licence No: 2/27/09/003 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE -SHERWOOD SANDSTONE - BARNBY DUN Data Type: Point Name: THE MALTINGS TIMBER CO Easting: 461800 Northing: 408300	Annual Volume (m ³): 16534 Max Daily Volume (m ³): 113.65 Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 10/06/1999 Version End Date: -



ID	Location	Details	
I	1432m SE	Status: Historical Licence No: 2/27/09/003 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - BARNBY DUN Data Type: Point Name: THE MALTINGS TIMBER CO Easting: 461800 Northing: 408300	Annual Volume (m ³): 16534 Max Daily Volume (m ³): 113.65 Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 10/06/1999 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

31

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 57 >](#)

ID	Location	Details	
A	289m NE	Status: Historical Licence No: 2/27/09/136 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION-SOUTH BRAMWITH Data Type: Line Name: BRITISH WATERWAYS Easting: 460990 Northing: 410290	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 513.69 Original Application No: - Original Start Date: 24/11/1987 Expiry Date: 30/09/2006 Issue No: 101 Version Start Date: 14/07/2004 Version End Date: -
A	289m NE	Status: Historical Licence No: 2/27/09/197 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION-SOUTH BRAMWITH Data Type: Line Name: Canal and River Trust Easting: 460990 Northing: 410290	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 513.69 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 2 Version Start Date: 21/01/2008 Version End Date: -



ID	Location	Details	
A	295m NE	Status: Active Licence No: 2/27/09/197/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION-SOUTH BRAMWITH Data Type: Line Name: Canal and River Trust Easting: 460980 Northing: 410309	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 514 Original Application No: NPS/WR/021594 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 01/04/2017 Version End Date: -
A	303m NE	Status: Historical Licence No: 2/27/09/136 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION Data Type: Line Name: BRITISH WATERWAYS Easting: 461000 Northing: 410300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/11/1987 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 16/04/1992 Version End Date: -
4	467m N	Status: Historical Licence No: 2/27/09/171 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON OLD COURSE Data Type: Line Name: LEONARD PASHLEY & SON Easting: 460600 Northing: 411100	Annual Volume (m ³): 52420 Max Daily Volume (m ³): 1392 Original Application No: - Original Start Date: 11/07/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 11/07/1997 Version End Date: -
B	530m N	Status: Active Licence No: 2/27/09/200/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON OLD COURSE Data Type: Line Name: LEONARD PASHLEY & SON Easting: 460667 Northing: 411129	Annual Volume (m ³): 52420 Max Daily Volume (m ³): 1392 Original Application No: NPS/WR/036304 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 2 Version Start Date: 23/08/2021 Version End Date: -
B	530m N	Status: Historical Licence No: 2/27/09/200 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON OLD COURSE Data Type: Line Name: LEONARD PASHLEY & SON Easting: 460667 Northing: 411129	Annual Volume (m ³): 52420 Max Daily Volume (m ³): 1392 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -



ID	Location	Details	
B	533m N	Status: Historical Licence No: 2/27/09/200 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON OLD COURSE Data Type: Line Name: LEONARD PASHLEY & SON Easting: 460670 Northing: 411130	Annual Volume (m ³): 52420 Max Daily Volume (m ³): 1392 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
5	603m N	Status: Active Licence No: 2/27/09/065 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: RIVER DON/OLD RIVER CHANNEL Data Type: Point Name: N L DURDY & SON LTD Easting: 460800 Northing: 411100	Annual Volume (m ³): 15138 Max Daily Volume (m ³): 727.36 Original Application No: 2476 Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/10/2006 Version End Date: -
C	642m N	Status: Historical Licence No: 2/27/09/170 Details: Transfer between Sources (Pre Water Act 2003) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460600 Northing: 411300	Annual Volume (m ³): 57662 Max Daily Volume (m ³): 1531.2 Original Application No: - Original Start Date: 11/07/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 01/04/2006 Version End Date: -
C	669m N	Status: Historical Licence No: 2/27/09/199 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460640 Northing: 411310	Annual Volume (m ³): 57662 Max Daily Volume (m ³): 1531.2 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
C	672m N	Status: Active Licence No: 2/27/09/199/R01 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460639 Northing: 411314	Annual Volume (m ³): 57622 Max Daily Volume (m ³): 1531.2 Original Application No: NPS/WR/036780 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 3 Version Start Date: 23/08/2021 Version End Date: -



ID	Location	Details	
C	672m N	Status: Historical Licence No: 2/27/09/199 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: SURFACE WATER Point: RIVER DON Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460639 Northing: 411314	Annual Volume (m ³): 57662 Max Daily Volume (m ³): 1531.2 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2007 Version End Date: -
D	702m SE	Status: Historical Licence No: 2/27/09/146 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION Data Type: Line Name: BRITISH WATERWAYS Easting: 461320 Northing: 408850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/06/1993 Expiry Date: 30/09/2006 Issue No: 100 Version Start Date: 23/06/1993 Version End Date: -
D	702m SE	Status: Historical Licence No: 2/27/09/146 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION-SHEFFIELD Data Type: Line Name: BRITISH WATERWAYS Easting: 461320 Northing: 408850	Annual Volume (m ³): 39000 Max Daily Volume (m ³): 1380 Original Application No: - Original Start Date: 23/06/1993 Expiry Date: 30/09/2006 Issue No: 101 Version Start Date: 14/07/2004 Version End Date: -
D	725m SE	Status: Active Licence No: 2/27/09/198/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION-SHEFFIELD Data Type: Line Name: Canal and River Trust Easting: 461360 Northing: 408855	Annual Volume (m ³): 40000 Max Daily Volume (m ³): 2160 Original Application No: NPS/WR/021595 Original Start Date: 23/06/2017 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 23/06/2017 Version End Date: -

ID	Location	Details	
D	728m SE	Status: Historical Licence No: 2/27/09/198 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION-SHEFFIELD Data Type: Line Name: Canal and River Trust Easting: 461360 Northing: 408850	Annual Volume (m ³): 40000 Max Daily Volume (m ³): 1380 Original Application No: - Original Start Date: 01/04/2007 Expiry Date: 31/03/2017 Issue No: 3 Version Start Date: 01/04/2009 Version End Date: -
E	974m SW	Status: Active Licence No: 2/27/09/194/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: NORWOOD & SANDALL NOOKING DRAIN - ALMHOLME ARKSEY Data Type: Point Name: LEONARD PASHLEY & SON Easting: 459150 Northing: 408830	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 175 Original Application No: NPS/WR/036302 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 2 Version Start Date: 23/08/2021 Version End Date: -
E	974m SW	Status: Historical Licence No: 2/27/09/194 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: NORWOOD & SANDALL NOOKING DRAIN - ALMHOLME ARKSEY Data Type: Point Name: LEONARD PASHLEY & SON Easting: 459150 Northing: 408830	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 175 Original Application No: - Original Start Date: 01/04/2006 Expiry Date: 31/03/2017 Issue No: 2 Version Start Date: 17/10/2013 Version End Date: -
-	1038m N	Status: Historical Licence No: 2/27/09/174 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/10/1998 Expiry Date: 31/08/2002 Issue No: 100 Version Start Date: 21/10/1998 Version End Date: -
-	1038m N	Status: Historical Licence No: 2/27/09/188 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 24/03/2003 Expiry Date: 31/08/2009 Issue No: 1 Version Start Date: 24/03/2003 Version End Date: -



ID	Location	Details	
-	1038m N	Status: Historical Licence No: 2/27/09/210 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 01/06/2009 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/06/2009 Version End Date: -
-	1038m N	Status: Historical Licence No: 2/27/09/210/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 01/04/2017 Version End Date: -
-	1113m S	Status: Historical Licence No: 2/27/09/092 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 460500 Northing: 407700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/04/1999 Version End Date: -
-	1113m S	Status: Historical Licence No: 2/27/09/092 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: SHEFFIELD AND SOUTH YORKS NAVIGATION Data Type: Point Name: Canal and River Trust Easting: 460500 Northing: 407700	Annual Volume (m ³): 1136500 Max Daily Volume (m ³): 12480 Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 101 Version Start Date: 21/01/2008 Version End Date: -
-	1165m N	Status: Active Licence No: 2/27/09/210/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN AT KIRK BRAMWITH Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460966 Northing: 411695	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: NPS/WR/036307 Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 2 Version Start Date: 23/08/2021 Version End Date: -



ID	Location	Details	
7	1255m NE	Status: Active Licence No: NE/027/0009/030 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: STAINFORTH AND KEADBY CANAL Data Type: Line Name: Canal and River Trust Easting: 461635 Northing: 411126	Annual Volume (m ³): 20000 Max Daily Volume (m ³): 800 Original Application No: NPS/WR/02988 Original Start Date: 08/03/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 08/03/2019 Version End Date: -
-	1627m N	Status: Historical Licence No: 2/27/09/159 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: WRANCARR DRAIN Data Type: Point Name: THOMAS Easting: 460700 Northing: 412300	Annual Volume (m ³): 2250 Max Daily Volume (m ³): 250 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/08/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
-	1646m SW	Status: Historical Licence No: 2/27/09/194 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: NORWOOD & SANDALL DRAIN - ARNHOLME - ARKSEY Data Type: Point Name: LEONARD PASHLEY & SON Easting: 458530 Northing: 408340	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 175 Original Application No: - Original Start Date: 01/04/2006 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/04/2006 Version End Date: -
-	1685m SW	Status: Historical Licence No: 2/27/09/177 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: NORWOOD & SANDALL DRAIN, ALMHOLME, ARKSEY Data Type: Point Name: LEONARD PASHLEY & SON Easting: 458500 Northing: 408300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/11/2000 Expiry Date: 31/10/2005 Issue No: 1 Version Start Date: 27/11/2000 Version End Date: -
-	1685m SW	Status: Historical Licence No: 2/27/09/177 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: NORWOOD & SANDALL DRAIN - LMHOLME - ARKSEY Data Type: Point Name: LEONARD PASHLEY & SON Easting: 458500 Northing: 408300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/11/2000 Expiry Date: 31/10/2005 Issue No: 1 Version Start Date: 27/11/2000 Version End Date: -



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

5.8 Potable abstractions

Records within 2000m

0

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

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

5.9 Source Protection Zones

Records within 500m

2

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on [page 57 >](#)

ID	Location	Type	Description
1	On site	3	Total catchment
2	On site	3	Total catchment

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

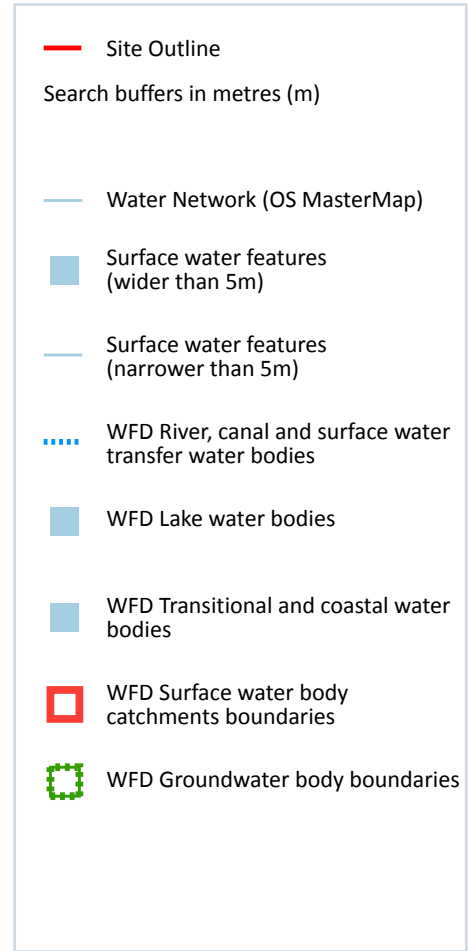
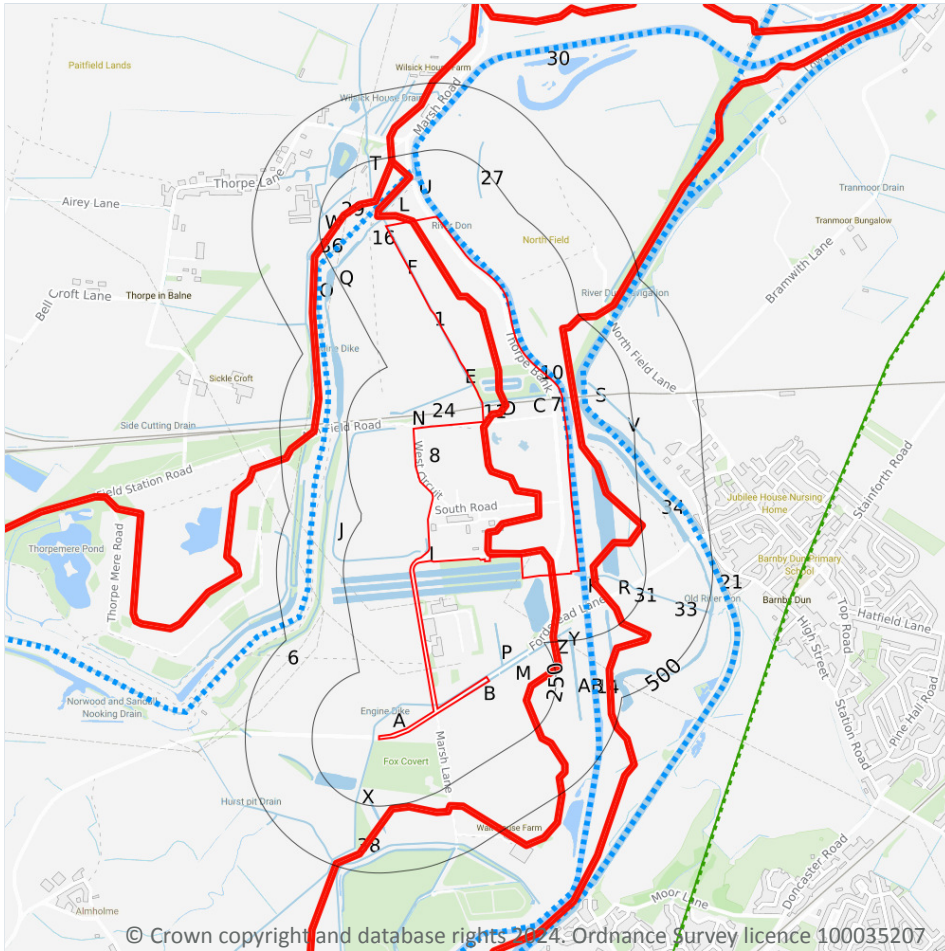
0

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

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



6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m

53

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 68 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Engine Dike

ID	Location	Type of water feature	Ground level	Permanence	Name
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
B	2m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
B	3m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
10	4m E	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Don
11	4m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	5m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	17m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	31m SE	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Don



ID	Location	Type of water feature	Ground level	Permanence	Name
K	31m SE	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	41m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	45m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Engine Dike
L	47m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	50m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	69m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
M	72m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
P	72m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	73m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorpe Marsh Drain
21	77m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Sheffield and South Yorkshire Navigation
Q	78m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
R	85m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
24	89m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Engine Dike



ID	Location	Type of water feature	Ground level	Permanence	Name
S	108m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	119m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
S	134m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
U	153m N	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	154m N	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Don
V	164m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	165m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	165m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
27	174m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	New Ings Drain
M	178m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	180m N	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorpe Marsh Drain
29	183m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Side Cutting Drain
30	186m N	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Don



ID	Location	Type of water feature	Ground level	Permanence	Name
X	196m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Engine Dike
31	198m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
X	200m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike
Y	203m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
33	212m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
34	215m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old River Don
Z	223m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	224m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Engine Dike
AB	228m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
36	239m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Side Cutting Drain
W	239m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
W	241m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wilsick House Drain
38	243m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Engine Dike

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

33

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 68 >](#)

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

2

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

Features are displayed on the Hydrology map on [page 68 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
6	On site	River	Ea Beck from the Skell to River Don	GB104027057591	Don Lower	Don and Rother
7	On site	River	Don from Mill Dyke to River Ouse	GB104027064243	Don Lower	Don and Rother

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

6.4 WFD Surface water bodies

Records identified

3

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 68 >](#)



ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
9	0m N	River	Don from Mill Dyke to River Ouse	GB104027064243 ↗	Moderate	Fail	Moderate	2019
20	74m NW	River	Ea Beck from the Skell to River Don	GB104027057591 ↗	Moderate	Fail	Moderate	2019
22	82m E	Canal	Sheffield and South Yorkshire Navigation (New Junction and Stainf	GB70410281 ↗	Moderate	Fail	Good	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.

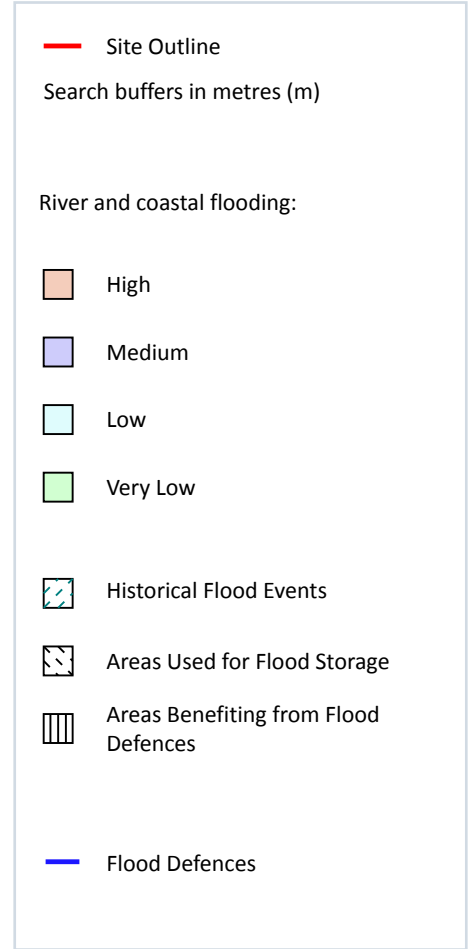
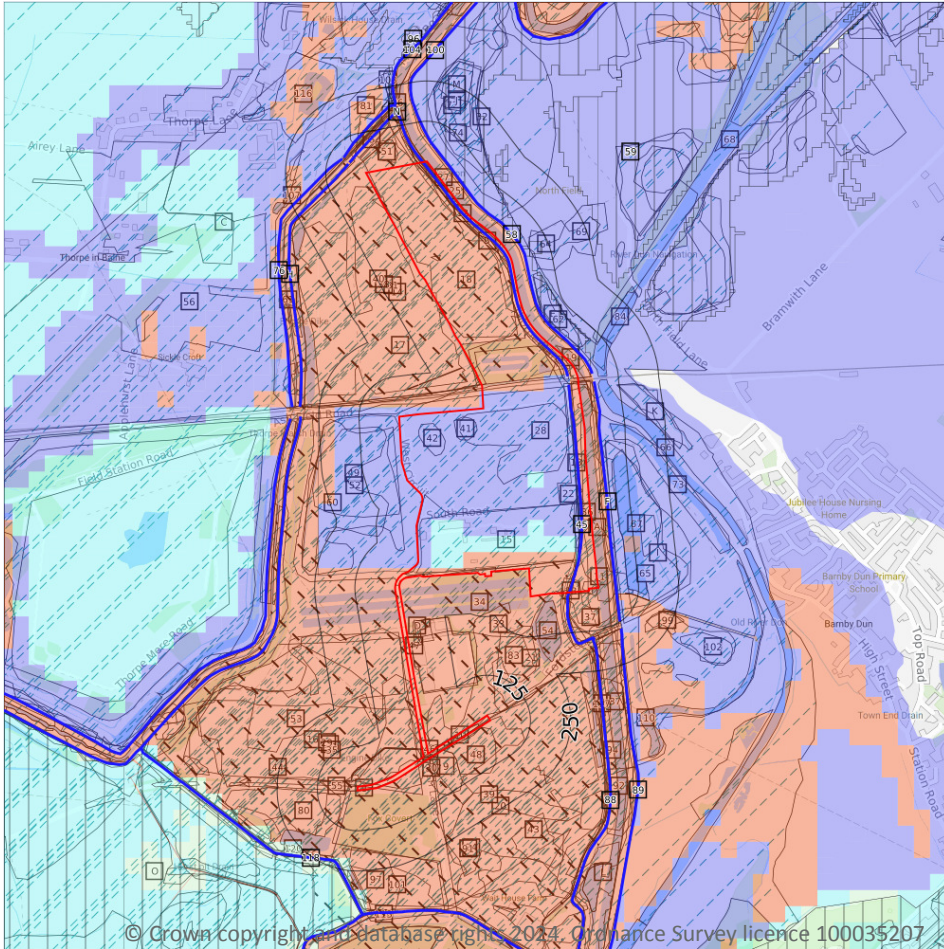
Features are displayed on the Hydrology map on [page 68](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
8	On site	Aire & Don Sherwood Sandstone.	GB40401G701000 ↗	Poor	Poor	Poor	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

9

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

Features are displayed on the River and coastal flooding map on [page 75 >](#)

Distance	Flood risk category
On site	High
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	103
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Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

Features are displayed on the River and coastal flooding map on [page 75 >](#)

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
8	On site	2022 February Flood Incident -Storm Dudley, Eunice And Franklin	2022-02-20 2022-03-28	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
9	On site	2022 February Flood Incident -Storm Dudley, Eunice And Franklin	2022-02-20 2022-03-28	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
10	On site	2022 February Flood Incident -Storm Dudley, Eunice And Franklin	2022-02-20 2022-03-28	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
11	On site	2022 February Flood Incident -Storm Dudley, Eunice And Franklin	2022-02-20 2022-03-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
12	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
13	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
14	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
15	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
16	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
17	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
18	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
19	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
20	On site	2021 January Flood Incident - Storm Christoph	2021-01-18 2021-02-06	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
21	On site	2021 January Flood Incident - Storm Christoph	2021-01-18 2021-02-06	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
22	On site	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Unknown	No data
23	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Drainage	Local drainage/surface water	No data
24	On site	123 March 1947	1947-03-19 1947-03-22	Main river	Overtopping of defences	Fluvial
25	On site	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Unknown	No data
26	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Channel capacity exceeded (no raised defences)	Fluvial
27	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Channel capacity exceeded (no raised defences)	Fluvial
28	On site	2021 January Flood Incident - Storm Christoph	2021-01-18 2021-02-06	Drainage	Local drainage/surface water	No data
29	On site	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Unknown	No data
30	On site	123 January 1982 - Lower Don Barnby Dun	1982-01-01 1982-01-31	Main river	Other	Fluvial
31	On site	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Unknown	No data
32	On site	2021 January Flood Incident - Storm Christoph	2021-01-18 2021-02-06	Main river	Channel capacity exceeded (no raised defences)	Fluvial
33	On site	June 2007 Flood Event (Ridings Area)	2007-06-25 2007-06-26	Unknown	Unknown	Fluvial
34	On site	123 May 1932 Arksey	1932-05-01 1932-05-31	Main river	Unknown	Fluvial
35	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
36	On site	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
37	On site	2021 January Flood Incident - Storm Christoph	2021-01-18 2021-02-06	Main river	Channel capacity exceeded (no raised defences)	Fluvial
38	On site	2021 January Flood Incident - Storm Christoph	2021-01-18 2021-02-06	Main river	Channel capacity exceeded (no raised defences)	Fluvial
39	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
40	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
41	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
42	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
43	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
44	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
A	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
A	On site	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Unknown	No data
A	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Channel capacity exceeded (no raised defences)	Fluvial
A	On site	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
B	On site	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Channel capacity exceeded (no raised defences)	Fluvial
C	On site	123 March 1947	1947-03-19 1947-03-22	Main river	Operational failure/breach of defence	Fluvial
47	1m S	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
48	2m S	2022 February Flood Incident -Storm Dudley, Eunice And Franklin	2022-02-20 2022-03-28	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
49	3m W	2021 January Flood Incident - Storm Christoph	2021-01-18 2021-02-06	Drainage	Local drainage/surface water	No data



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
D	6m S	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
51	15m N	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
52	17m SW	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Unknown	No data
53	22m S	2022 February Flood Incident -Storm Dudley, Eunice And Franklin	2022-02-20 2022-03-28	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
54	23m S	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
55	26m S	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
D	27m S	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
56	32m NW	123 May 1932	1932-05-01 1932-05-31	Main river	Unknown	Fluvial
E	35m NE	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
60	43m W	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
61	50m NW	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	51m NE	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Unknown	No data
G	51m NW	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
62	52m NE	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
64	58m N	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data
65	60m SE	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
66	61m E	2019 November Flood Incident	2019-11-07 2019-11-08	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
67	61m E	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
68	62m NE	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
69	62m N	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Drainage	Local drainage/surface water	No data
G	72m NW	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
72	74m N	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Unknown	No data
I	76m SE	2021 January Flood Incident - Storm Christoph	2021-01-18 2021-02-06	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
73	79m E	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
74	83m N	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data
G	86m NW	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
80	95m SW	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Drainage	Local drainage/surface water	No data
81	102m NW	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
J	109m N	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data
G	112m NW	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
J	114m N	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
K	118m E	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
K	121m E	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data
83	124m S	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data
84	125m NE	2019 November Flood Incident	2019-11-07 2019-11-08	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
86	142m N	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
L	143m SE	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Channel capacity exceeded (no raised defences)	Fluvial
L	143m SE	123 Autumn 2000	2000-11-07 2000-12-04	Main river	Unknown	No data
87	145m SE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
M	147m N	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data
I	149m SE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data
91	165m S	2022 February Flood Incident -Storm Dudley, Eunice And Franklin	2022-02-20 2022-03-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
92	167m SE	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
94	173m SE	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Main river	Channel capacity exceeded (no raised defences)	Fluvial
M	173m N	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Drainage	Local drainage/surface water	No data
97	178m S	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
99	181m SE	2019 November Flood Incident	2019-11-07 2019-11-08	Drainage	Local drainage/surface water	No data
101	185m S	2022 February Flood Incident -Storm Dudley, Eunice And Franklin	2022-02-20 2022-03-28	Main river	Overtopping of defences	Fluvial
102	185m SE	South Yorkshire and Lincoln	2019-11-08 2019-11-14	Unclassified	Unclassified	No data
103	189m N	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
107	203m NW	2019 November Flood Incident	2019-11-07 2019-11-08	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
110	211m SE	2019 November Flood Incident	2019-11-07 2019-11-08	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
113	224m S	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
O	227m S	123 March 1947	1947-03-19 1947-03-22	Main river	Operational failure/breach of defence	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
116	229m NW	2019 November Flood Incident	2019-11-07 2019-11-08	Ordinary watercourse	Channel capacity exceeded (no raised defences)	Fluvial
117	231m SE	2019 November Flood Incident	2019-11-07 2019-11-08	Main river	Overtopping of defences	Fluvial
120	239m SW	2020 February Flood Incident - Storm Ciara	2020-02-08 2020-02-14	Drainage	Local drainage/surface water	No data

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

7.3 Flood Defences

Records within 250m

14

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.

Features are displayed on the River and coastal flooding map on [page 75 >](#)

ID	Location	Update
45	On site	08/11/2022
B	On site	08/11/2022
58	40m NE	08/11/2022
F	44m E	08/11/2022
G	60m NW	08/11/2022
H	61m NW	08/11/2022
G	84m NW	08/11/2022
76	85m NW	08/11/2022
88	145m SE	08/11/2022
89	145m SE	08/11/2022
N	149m N	08/11/2022
100	183m N	08/11/2022
104	192m N	08/11/2022
118	231m S	08/11/2022



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

7.4 Areas Benefiting from Flood Defences

Records within 250m

4

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.

Features are displayed on the River and coastal flooding map on [page 75 >](#)

ID	Location	
E	42m NE	Area benefiting from flood defences
59	43m N	Area benefiting from flood defences
96	178m N	Area benefiting from flood defences
O	237m S	Area benefiting from flood defences

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

7.5 Flood Storage Areas

Records within 250m

1

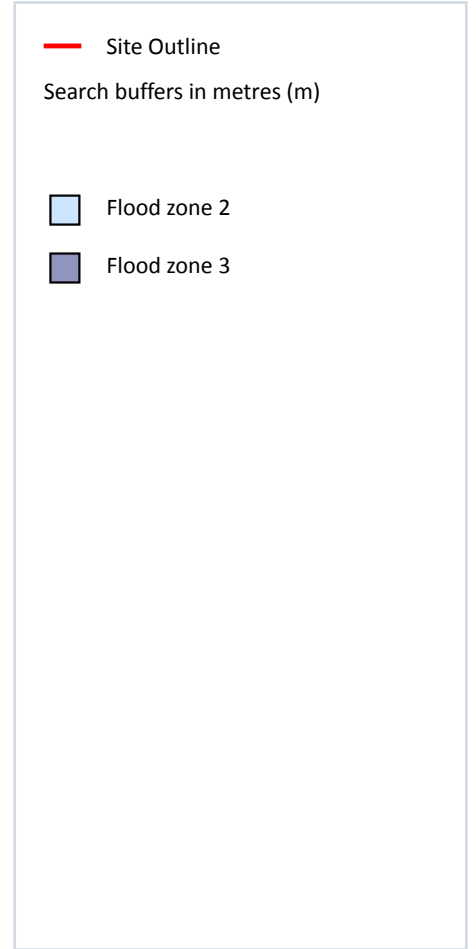
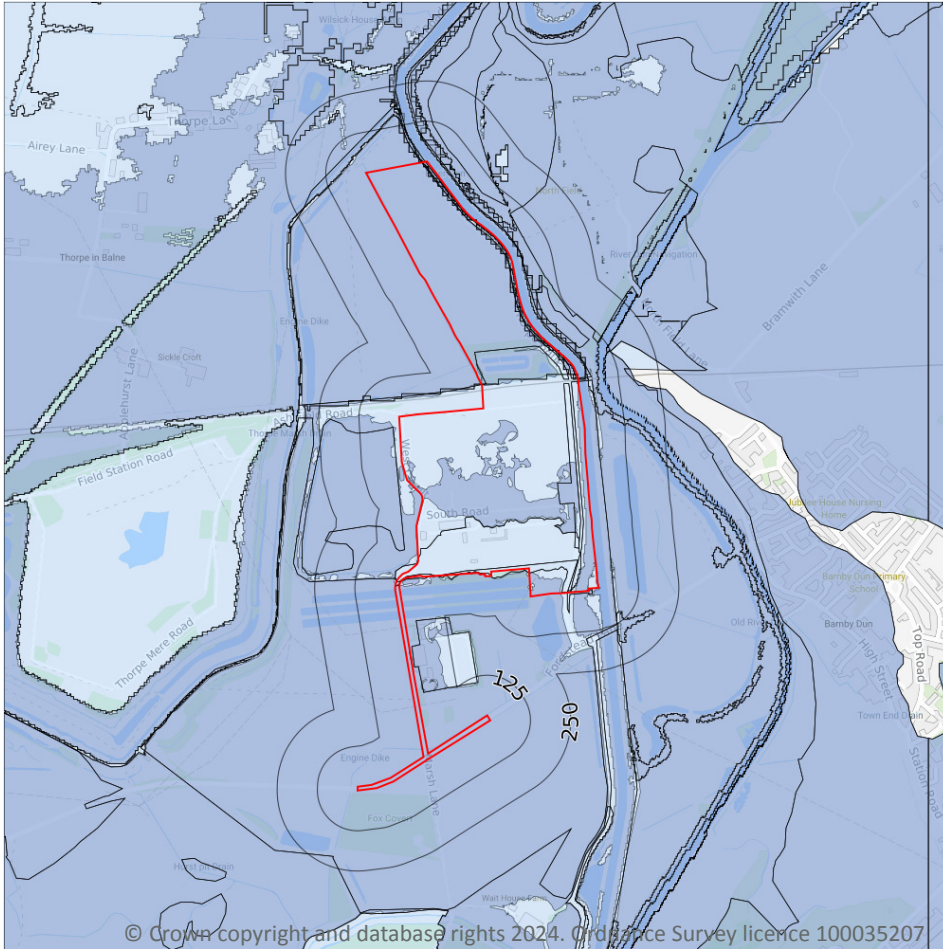
Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

Features are displayed on the River and coastal flooding map on [page 75 >](#)

ID	Location	Update
46	On site	Flood Storage Area

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

River and coastal flooding - Flood Zones



7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 75 >](#)

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

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

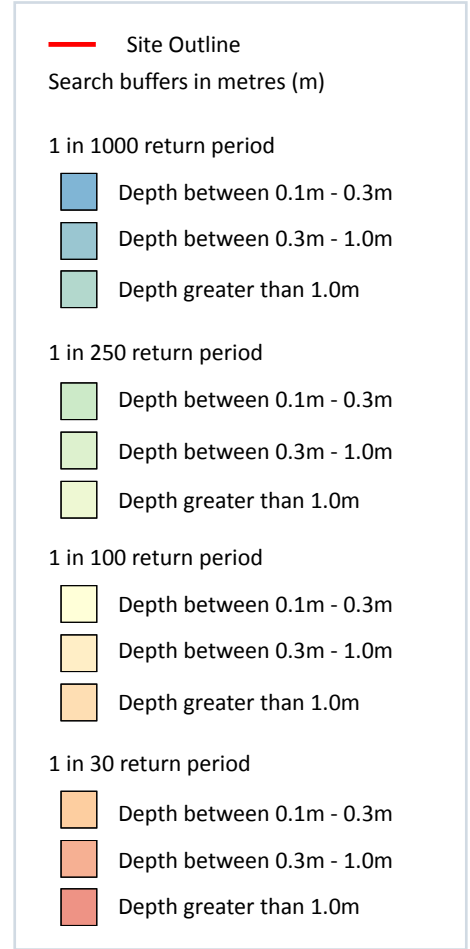
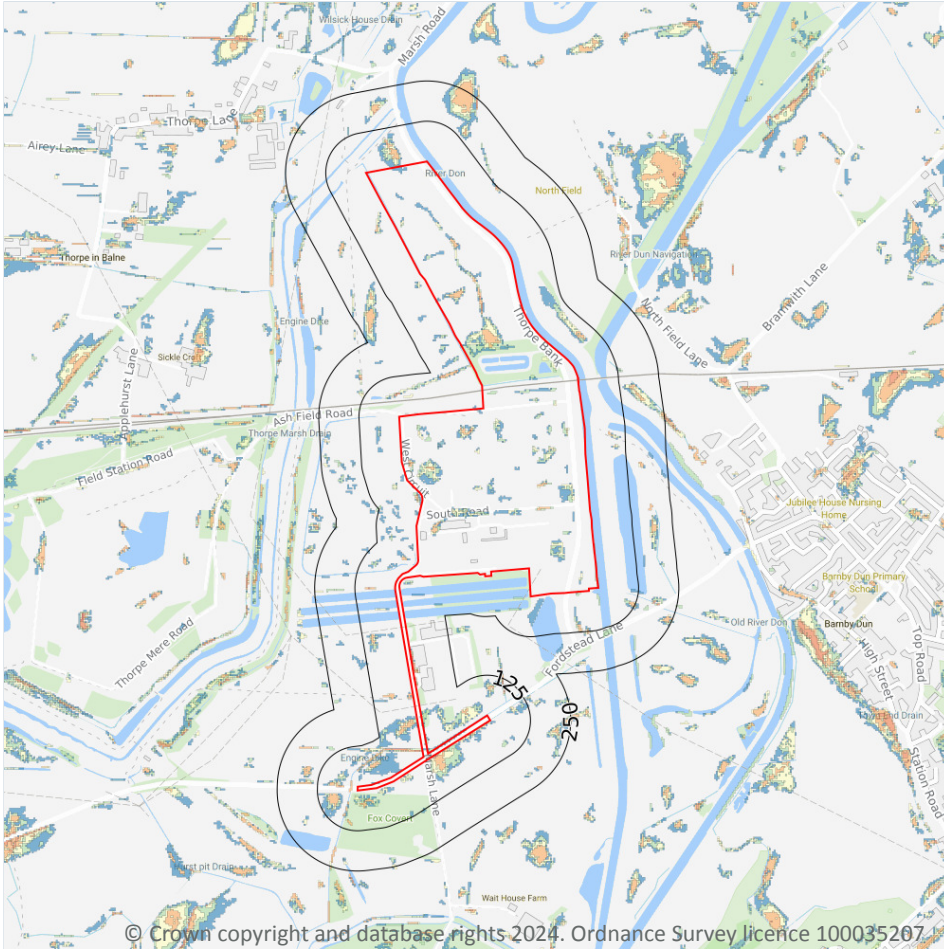
Features are displayed on the River and coastal flooding map on [page 75 >](#)

Location	Type
On site	Zone 3 - (Fluvial Models)

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

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on [page 86](#) >

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

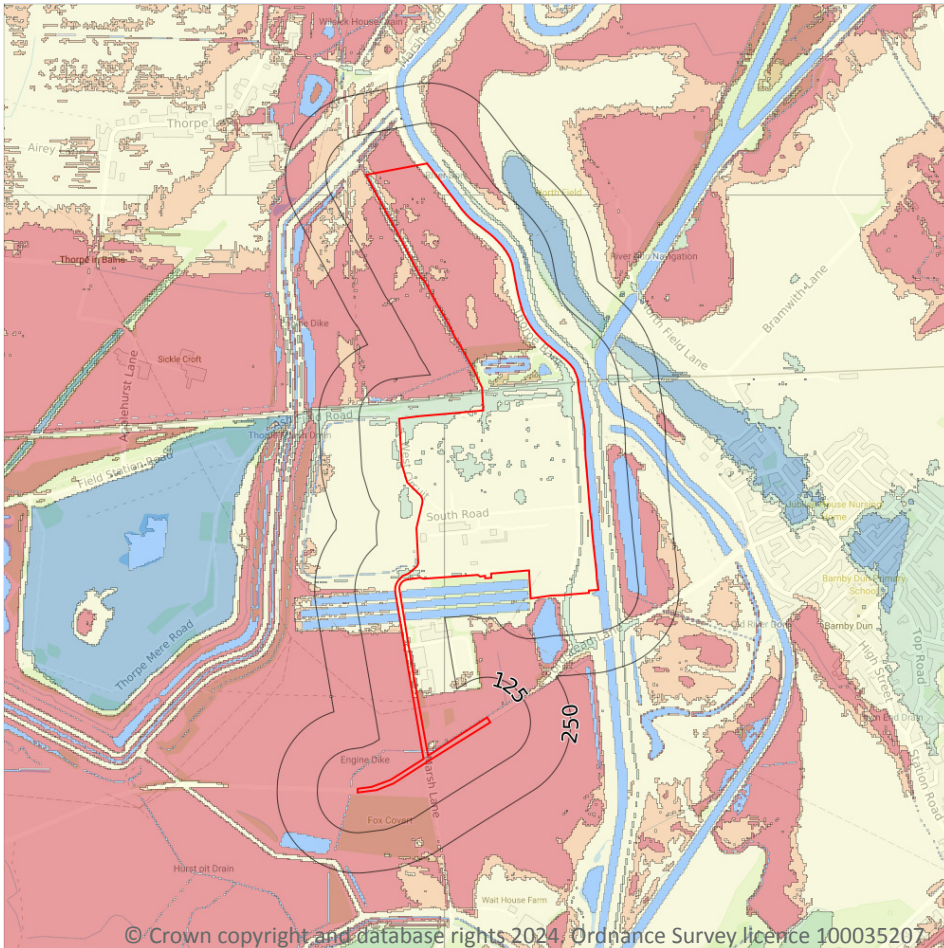
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

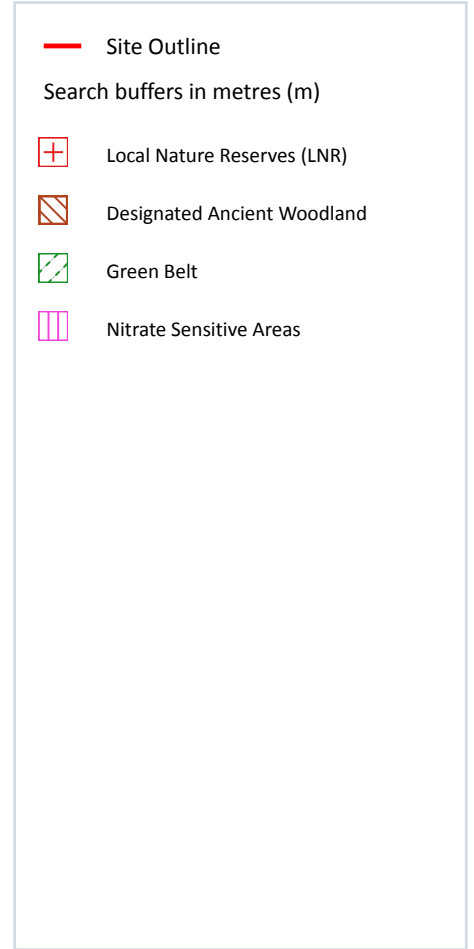
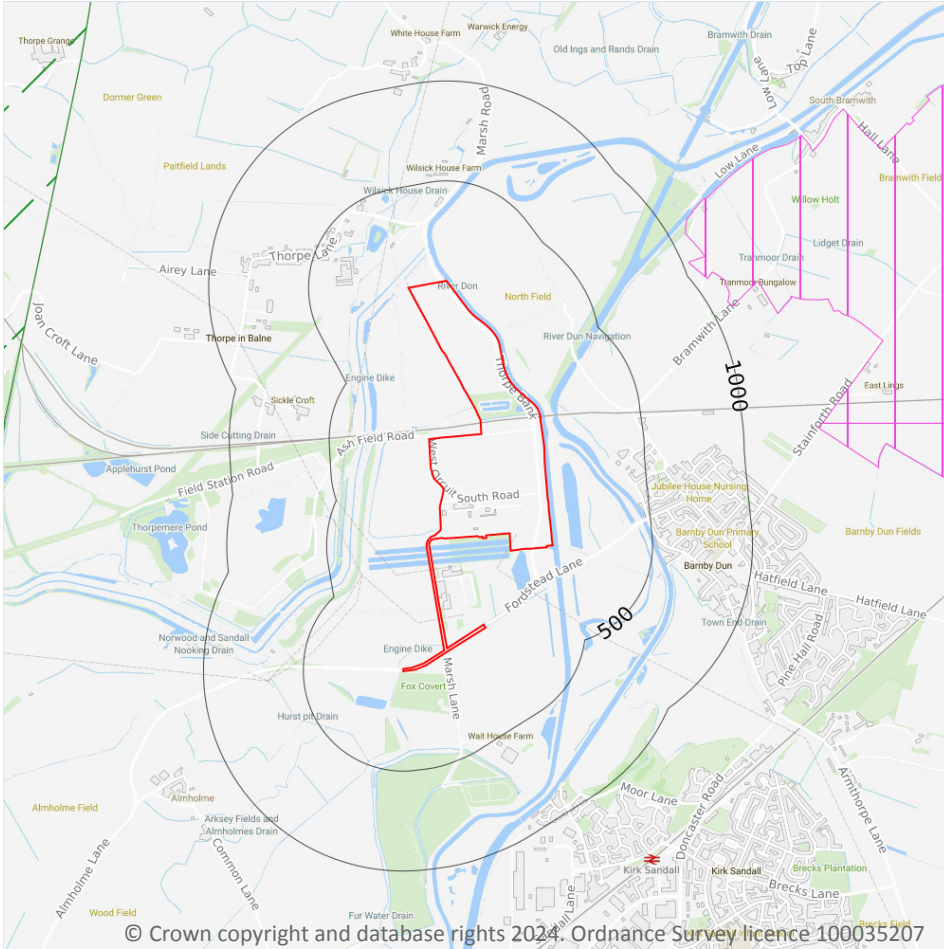
High

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

Features are displayed on the Groundwater flooding map on [page 88](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

0

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

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

1

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

Features are displayed on the Environmental designations map on [page 89](#) >

ID	Location	Name	Local Authority name
3	1840m NW	South and West Yorkshire	Doncaster

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

2

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).

Features are displayed on the Environmental designations map on [page 89 >](#)

ID	Location	Name	Data source
1	1031m NE	Hatfield	Natural England
2	1375m E	Hatfield	Natural England

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

4

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

Location	Name	Type	NVZ ID	Status
On site	Ea Beck from Abbess Dyke to River Don NVZ	Surface Water	279	Existing
On site	LOWER DON NVZ	Surface Water	298	Existing
On site	Nottinghamshire	Groundwater	40	Existing

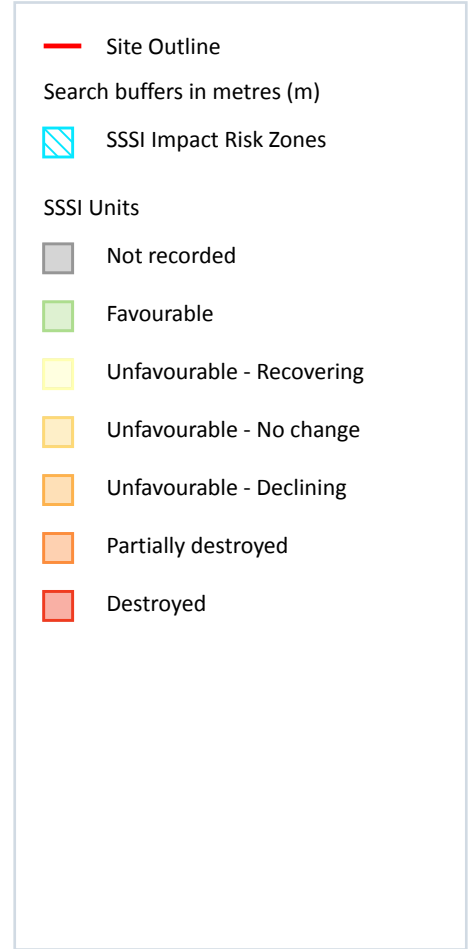
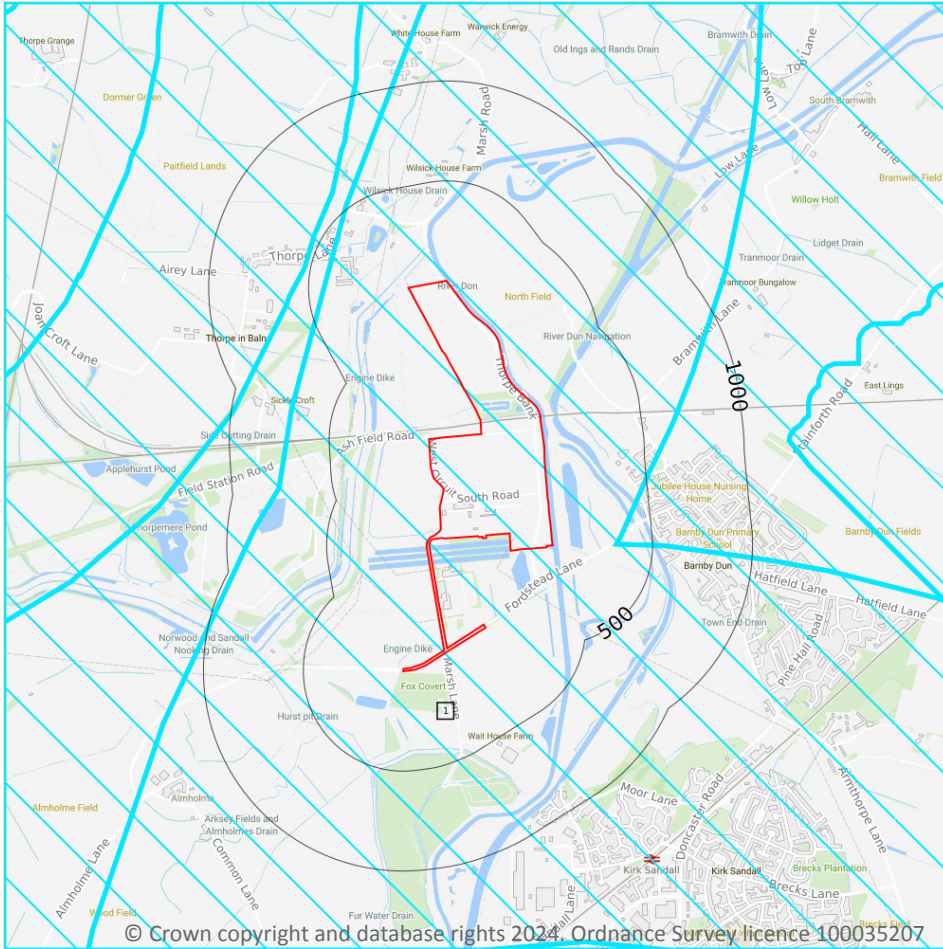


Location	Name	Type	NVZ ID	Status
994m N	Bramwith Drain from Source to River Don NVZ	Surface Water	280	Existing

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



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on [page 95](#) >

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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

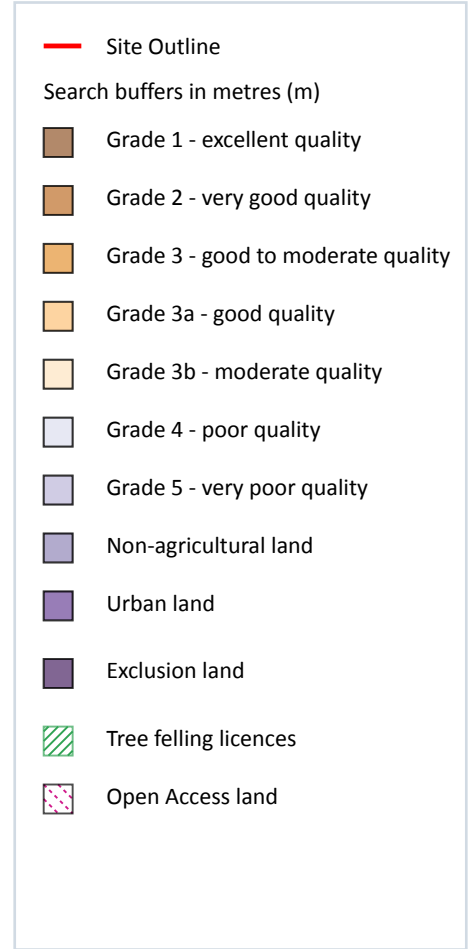
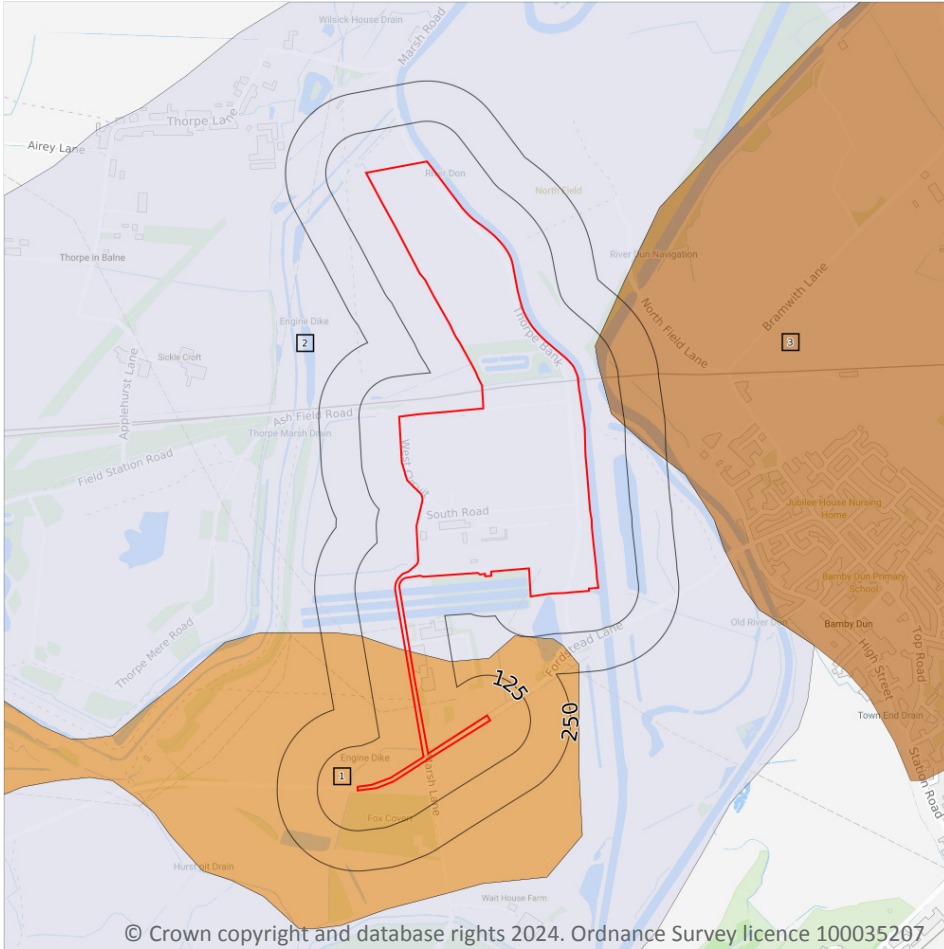
0

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



12.1 Agricultural Land Classification

Records within 250m

3

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 99](#) >

ID	Location	Classification	Description
1	On site	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.

ID	Location	Classification	Description
2	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
3	72m NE	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

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

10

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.

Location	Reference	Scheme	Start Date	End date
On site	AG00353397	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023



Location	Reference	Scheme	Start Date	End date
On site	AG00353397	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023
On site	AG00353397	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2021
2m S	AG00353397	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023
18m E	AG00353397	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023
22m N	AG00399152	Entry Level plus Higher Level Stewardship	01/02/2012	31/01/2022
46m NW	AG00353397	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023
144m SE	AG00334733	Entry Level plus Higher Level Stewardship	01/11/2011	31/10/2023
158m S	AG00353397	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023
185m N	AG00353397	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2023

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

9

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.

Location	Reference	Scheme	Start Date	End Date
1m SW	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
22m S	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
22m N	1461357	Countryside Stewardship (Middle Tier)	01/01/2023	31/12/2027
64m NW	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
79m NW	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
80m NW	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
132m N	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025

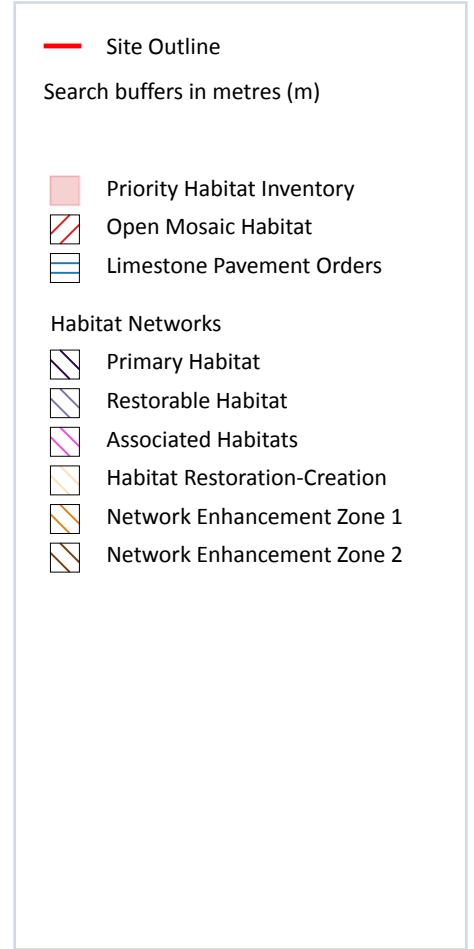
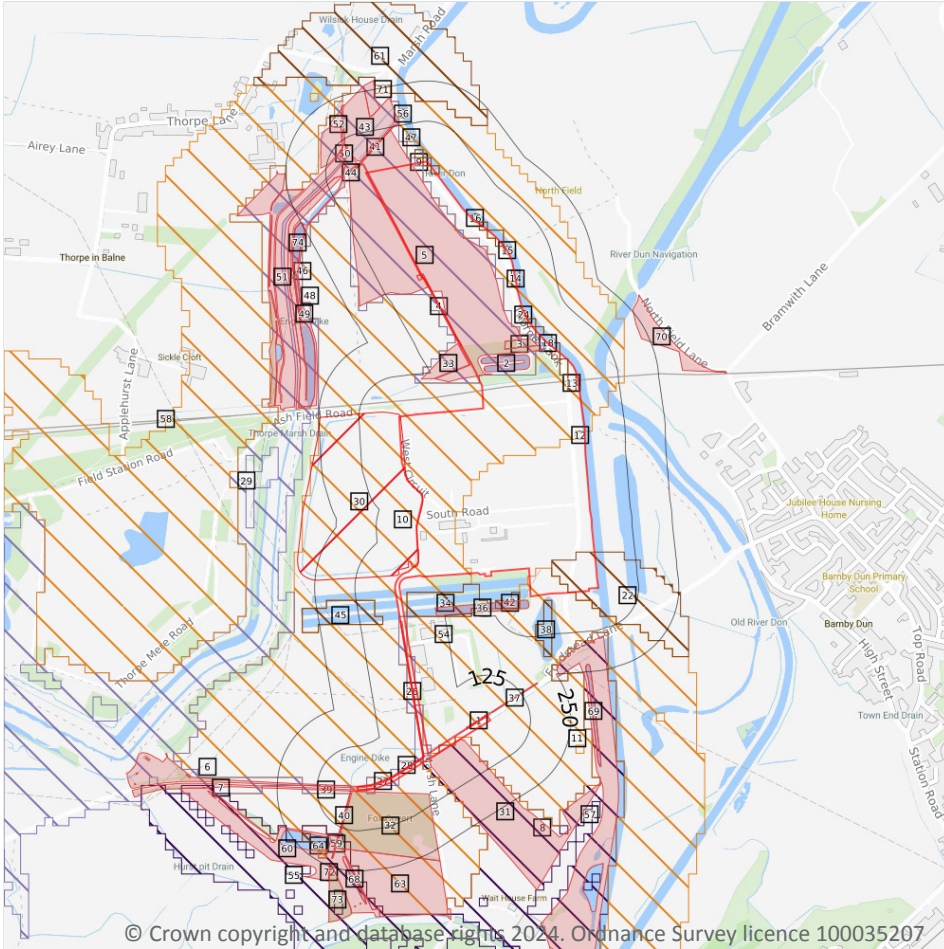


Location	Reference	Scheme	Start Date	End Date
185m S	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
226m NW	1053078	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

36

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 103 >](#)

ID	Location	Main Habitat	Other habitats
1	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
2	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
3	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
4	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)



ID	Location	Main Habitat	Other habitats
5	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
6	On site	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
7	On site	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
31	1m S	Lowland dry acid grassland	Main habitat: RBEDS (INV > 50%); LDAGR (INV > 50%)
32	3m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
33	7m N	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
36	16m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
37	17m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
40	23m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
41	33m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
43	41m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
44	45m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
46	64m NW	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
48	68m NW	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
49	72m NW	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
50	77m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%)
51	80m NW	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)
52	104m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
53	104m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
54	111m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
57	146m SE	Lowland dry acid grassland	Main habitat: RBEDS (INV > 50%); LDAGR (INV > 50%); Additional: CFPGM (FEP 50%)
59	155m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); DWOOD (INV > 50%)
60	156m S	Lowland meadows	Main habitat: CFPGM (INV > 50%); RBEDS (INV > 50%); LMEAD (INV > 50%)
62	170m N	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)



ID	Location	Main Habitat	Other habitats
63	185m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
66	200m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
68	209m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
69	227m S	No main habitat but additional habitats present	Additional: CFPGM (FEP 50%)
70	228m NE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
72	244m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
73	244m S	Deciduous woodland	Main habitat: CFPGM (INV > 50%); DWOOD (INV > 50%); LMEAD (INV > 50%)
74	246m NW	No main habitat but additional habitats present	Main habitat: RBEDS (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

37

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.

Features are displayed on the Habitat designations map on [page 103 >](#)

ID	Location	Type	Habitat
8	On site	Primary Habitat	Lowland dry acid grassland
9	On site	Network Enhancement Zone 1	Not specified
10	On site	Network Enhancement Zone 1	Not specified
11	On site	Network Enhancement Zone 1	Not specified
12	On site	Network Enhancement Zone 2	Not specified
13	On site	Network Enhancement Zone 2	Not specified
14	On site	Network Enhancement Zone 2	Not specified
15	On site	Network Enhancement Zone 2	Not specified
16	On site	Network Enhancement Zone 2	Not specified
17	On site	Network Enhancement Zone 2	Not specified
18	On site	Network Enhancement Zone 2	Not specified



ID	Location	Type	Habitat
19	On site	Network Enhancement Zone 2	Not specified
20	On site	Network Enhancement Zone 2	Not specified
21	On site	Network Enhancement Zone 2	Not specified
22	On site	Network Enhancement Zone 2	Not specified
23	On site	Network Enhancement Zone 2	Not specified
24	On site	Network Enhancement Zone 2	Not specified
25	On site	Network Enhancement Zone 2	Not specified
26	On site	Restorable Habitat	Not specified
27	On site	Restorable Habitat	Not specified
28	On site	Restorable Habitat	Not specified
29	On site	Restorable Habitat	Not specified
34	9m SW	Network Enhancement Zone 2	Not specified
35	14m N	Network Enhancement Zone 2	Not specified
38	18m S	Network Enhancement Zone 2	Not specified
39	22m S	Restorable Habitat	Not specified
42	34m S	Network Enhancement Zone 2	Not specified
45	52m SW	Network Enhancement Zone 2	Not specified
47	67m N	Network Enhancement Zone 2	Not specified
55	142m S	Primary Habitat	Lowland meadows
56	146m N	Network Enhancement Zone 2	Not specified
58	148m NW	Network Enhancement Zone 1	Not specified
61	162m N	Network Enhancement Zone 2	Not specified
64	186m S	Network Enhancement Zone 2	Not specified
65	199m SW	Network Enhancement Zone 2	Not specified
67	208m S	Network Enhancement Zone 1	Not specified
71	229m N	Network Enhancement Zone 1	Not specified

This data is sourced from Natural England.



13.3 Open Mosaic Habitat

Records within 250m

1

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

Features are displayed on the Habitat designations map on [page 103 >](#)

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
30	On site	NLUD Ref: 441000294	Low	National Land Use Database - Previously Developed Land	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

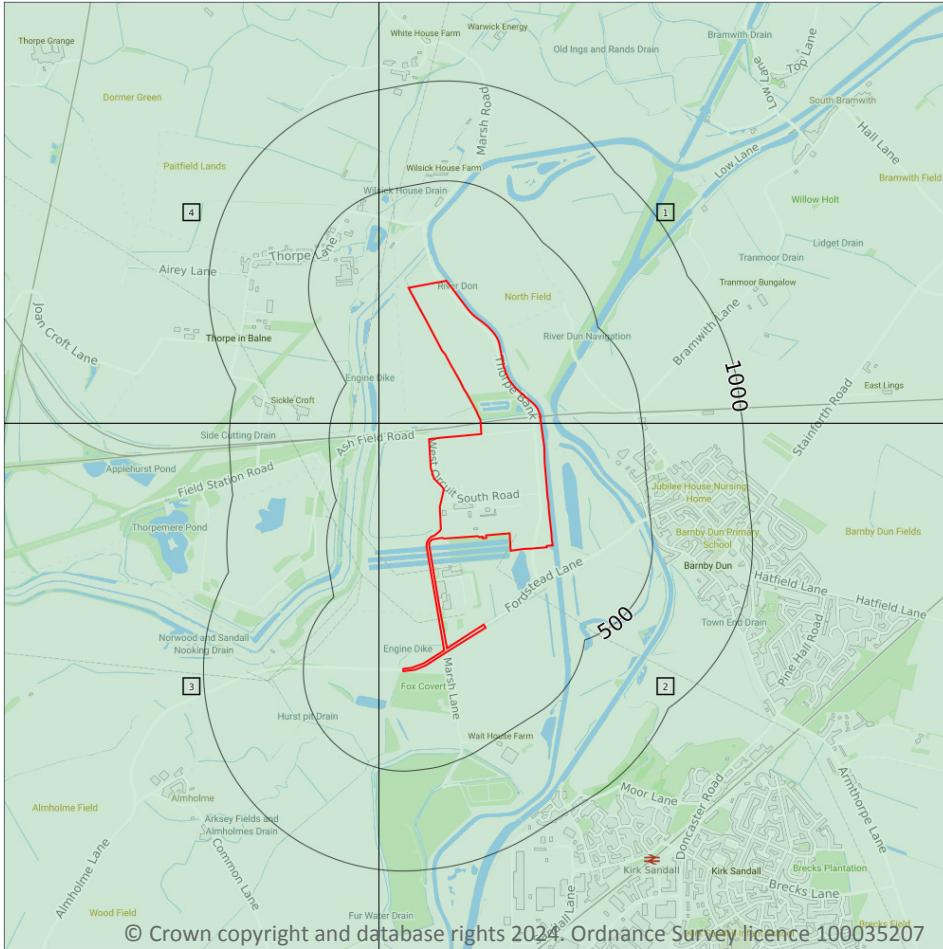
0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

4

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 108 >](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SE61SW
2	On site	No coverage	Full	Full	No coverage	SE60NW
3	122m SW	No coverage	Full	Full	No coverage	SE50NE
4	148m NW	No coverage	Full	Full	No coverage	SE51SE



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024



This data is sourced from the British Geological Survey.



Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 12 January 2024

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

14.2 Artificial and made ground (10k)

Records within 500m

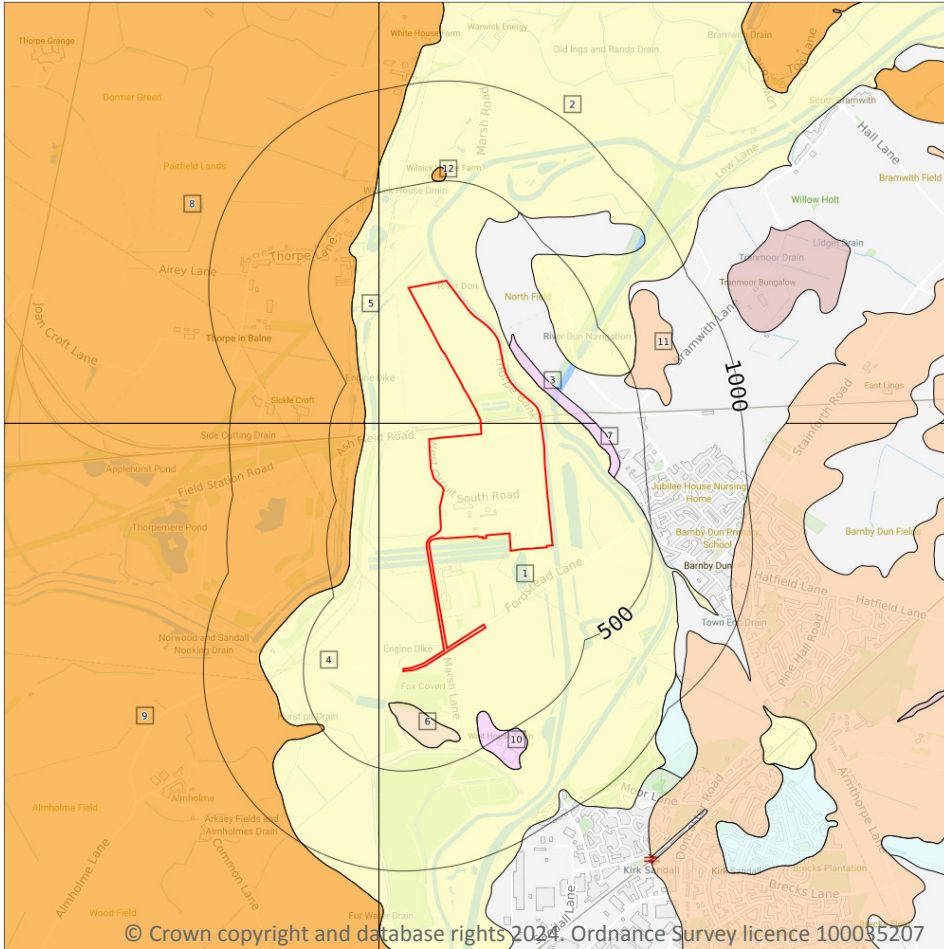
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

▣ Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

12

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 111](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
2	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	47m N	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
4	122m SW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
5	148m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
6	158m S	BREI-S	Brighton Sand Formation - Sand	Sand
7	202m E	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
8	272m NW	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
9	324m W	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
10	344m S	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
11	455m NE	RTDU-XSV	River Terrace Deposits (undifferentiated) - Sand And Gravel	Sand And Gravel
12	498m N	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

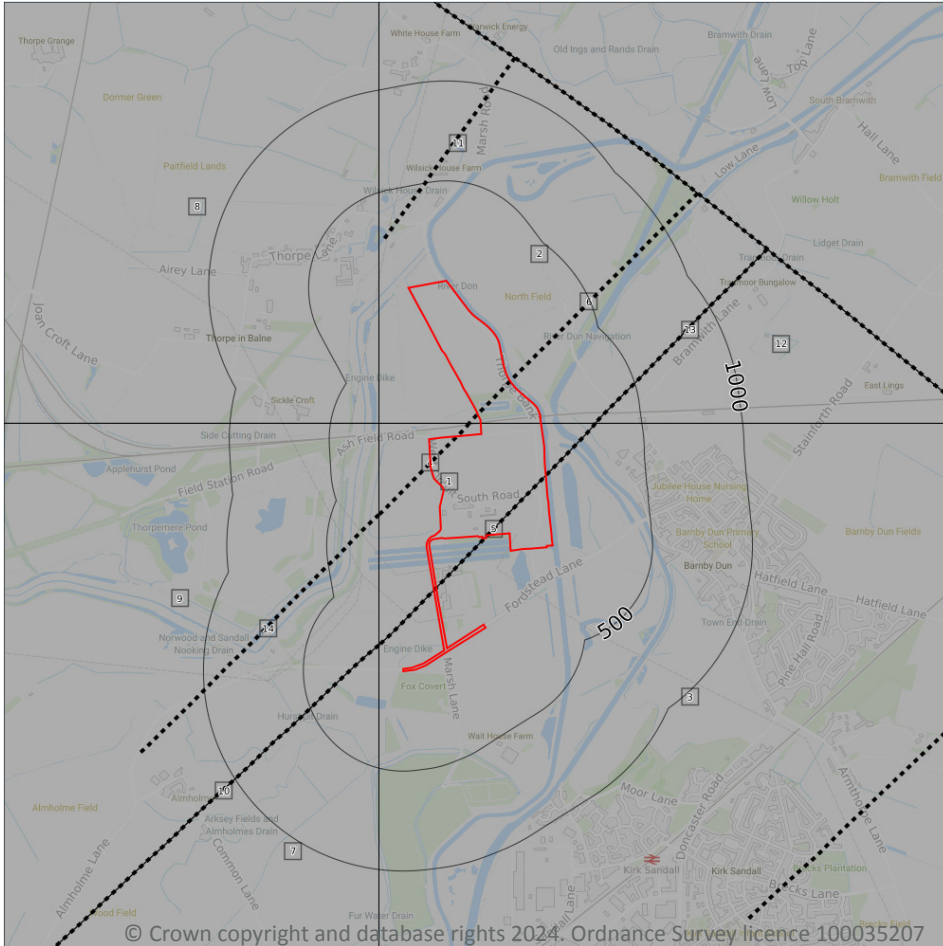
0

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

7

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 113](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
2	On site	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
3	On site	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
7	122m SW	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch

ID	Location	LEX Code	Description	Rock age
8	148m NW	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
9	170m SW	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
12	270m E	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

7

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.

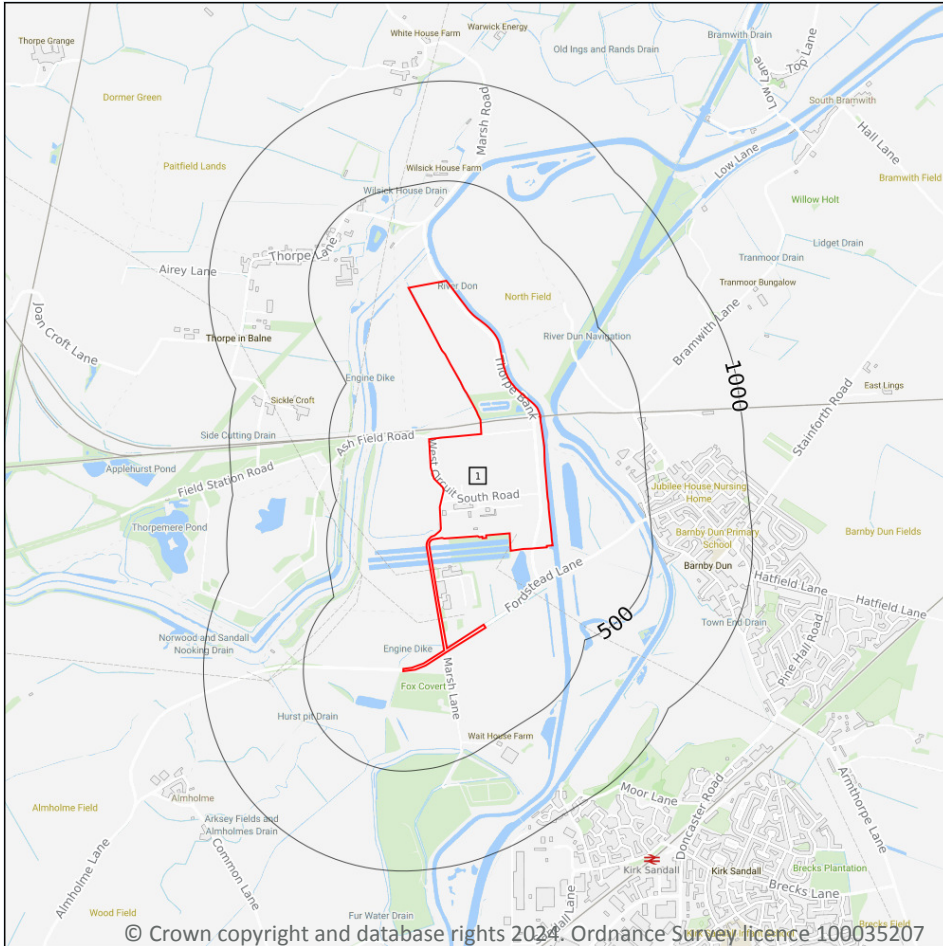
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 113](#) >

ID	Location	Category	Description
4	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
5	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
6	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
10	170m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
11	269m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
13	270m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
14	277m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 115](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW088_doncaster_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

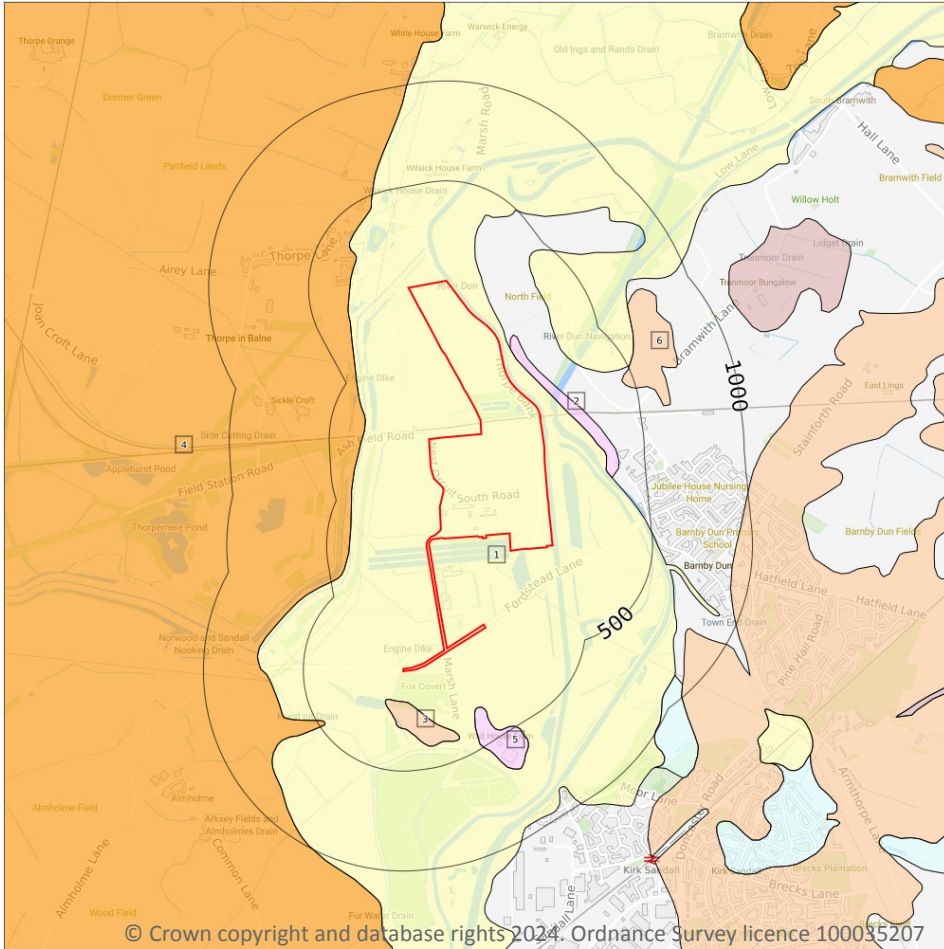
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



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

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15.4 Superficial geology (50k)

Records within 500m

6

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 117](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	49m N	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
3	152m S	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
4	292m NW	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY



ID	Location	LEX Code	Description	Rock description
5	318m S	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
6	443m NE	RTDU-XSV	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

3

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Very Low
On site	Intergranular	High	Very Low
49m N	Intergranular	Very High	High

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

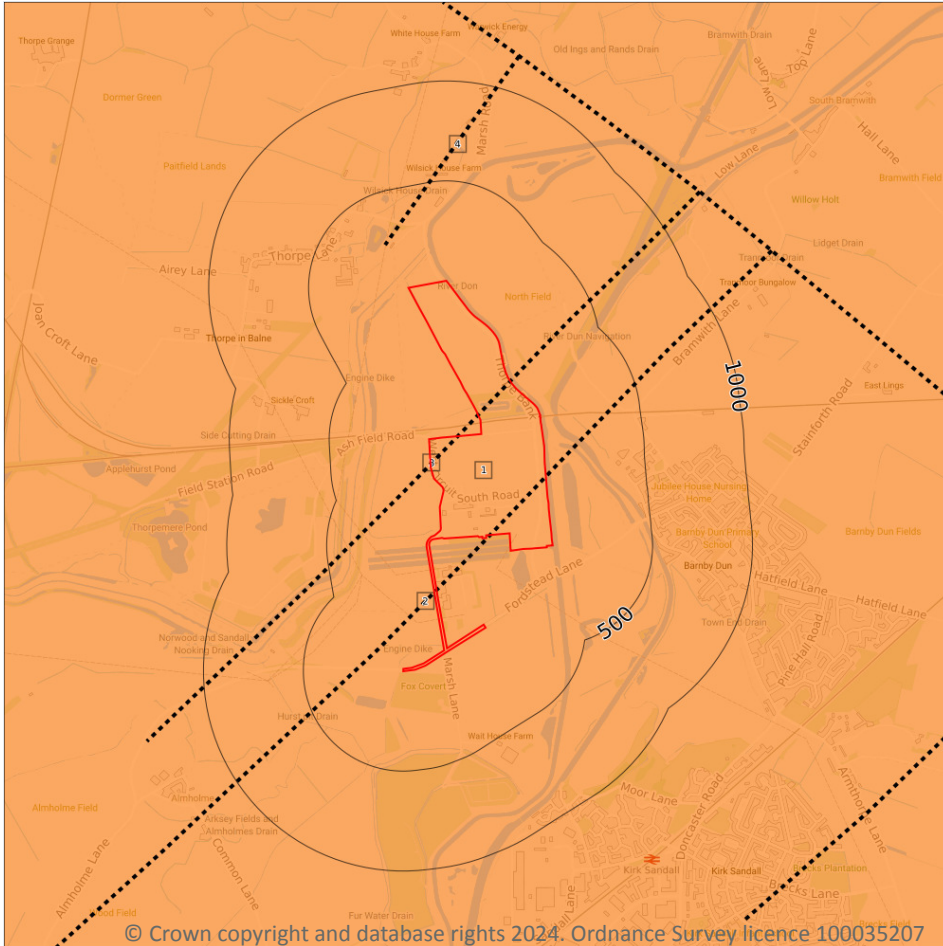
0

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

1

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 119](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	CHES-PESST	CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)	OLENEKIAN

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	Mixed	High	Moderate
On site	Mixed	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

3

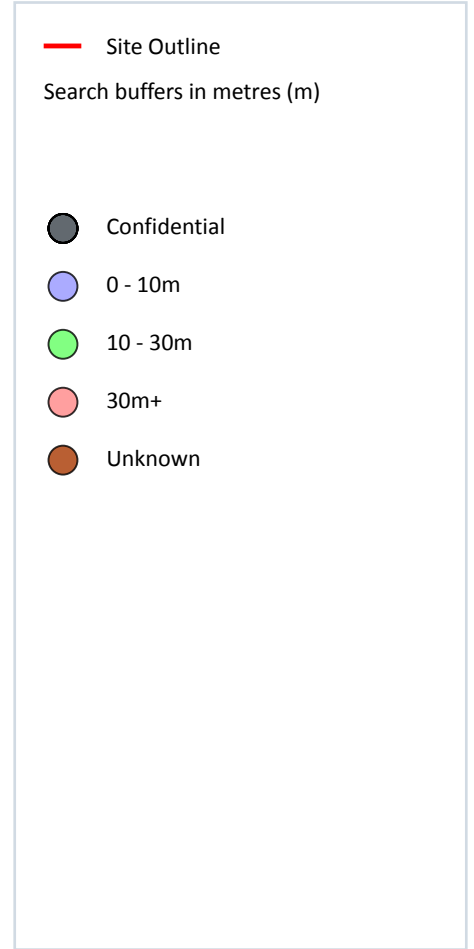
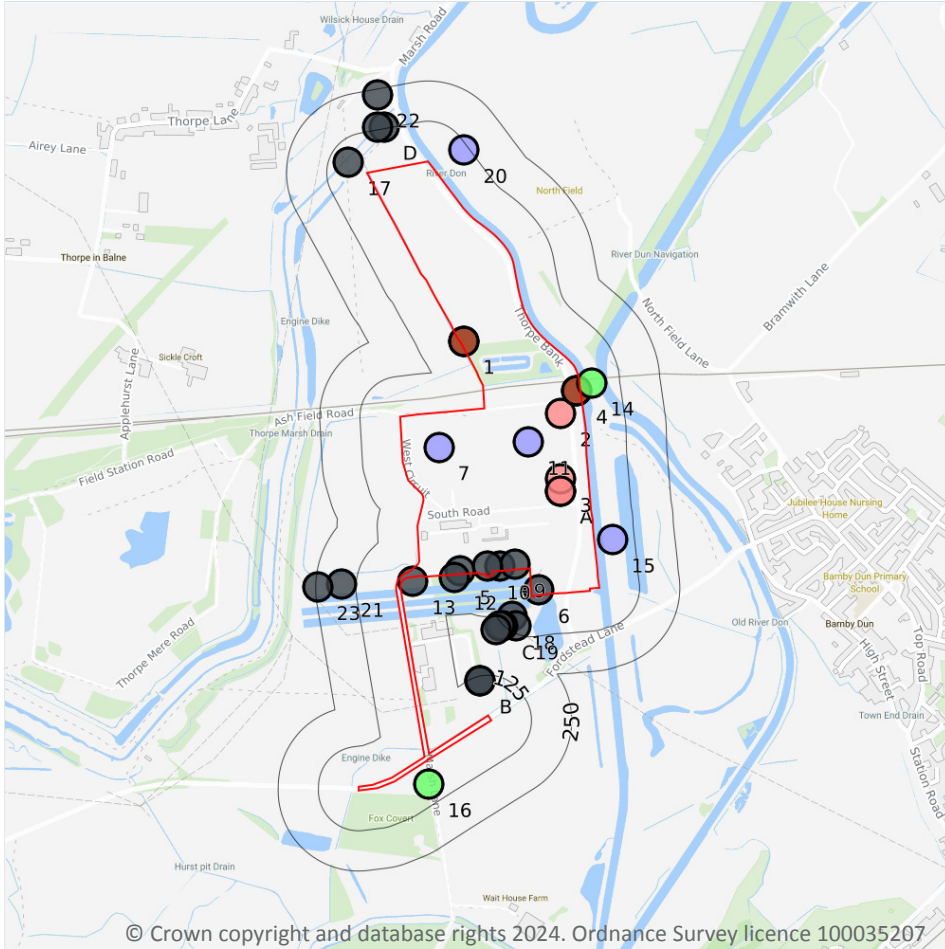
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 119 >](#)

ID	Location	Category	Description
2	On site	FAULT	Fault, inferred
3	On site	FAULT	Fault, inferred
4	245m NW	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



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16.1 BGS Boreholes

Records within 250m

32

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 121](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	460449 410155	TRUMFLEET 4 (NOTIFICATION ONLY - NOT DRILLED)	-1.0	N	121189 ↗
2	On site	460750 409930	THORPE MARSH POWER STATION	121.01	N	120324 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
3	On site	460750 409728	THORPE MARSH POWER STATION 3	123.0	N	120137 ↗
4	On site	460800 410000	KIRK BRAMWITH NO 1	-1.0	N	121204 ↗
5	On site	460438 409441	THORPE MARSH POWER STATION SITE INVESTIGATION BHZZH002A	-	Y	N/A
6	On site	460682 409383	THORPE MARSH POWER STATION SITE INVESTIGATION BH5	-	Y	N/A
7	On site	460371 409825	THORPE MARSH POWER STATION 1	8.53	N	120135 ↗
8	On site	460560 409458	THORPE MARSH POWER STATION SITE INVESTIGATION BH4ZH001A	-	Y	N/A
9	On site	460607 409462	THORPE MARSH POWER STATION SITE INVESTIGATION BH4ZH001BR	-	Y	N/A
10	On site	460523 409456	THORPE MARSH POWER STATION SITE INVESTIGATION BHZZH001A	-	Y	N/A
11	On site	460649 409841	THORPE MARSH POWER STATION 2	7.47	N	120136 ↗
A	On site	460750 409690	THORPE MARSH POWER STATION NO. 3	123.14	N	120325 ↗
A	On site	460750 409690	THORPE MARSH 2	121.01	N	120120 ↗
12	8m S	460419 409422	THORPE MARSH POWER STATION SITE INVESTIGATION BH4	-	Y	N/A
13	13m SW	460290 409410	THORPE MARSH POWER STATION SHALLOW BOREHOLES	-	Y	N/A
14	37m E	460845 410025	BRIDGE NUMBER 8 AND BARNBY DUN BRIDGE SHALLOW BH	18.75	N	121215 ↗
15	57m SE	460910 409540	KIRK SANDALL A	3.96	N	120127 ↗
16	64m S	460340 408780	THORPE MARSH BARNBY DUN	20.3	N	120158 ↗
17	66m NW	460090 410710	EA BECK TP 11	-	Y	N/A
18	86m S	460600 409300	THORPE MARSH-BRINSWORTH 400KV LINE 4	-	Y	N/A
19	104m S	460610 409270	THORPE MARSH-BRINSWORTH 400KV LINE 2	-	Y	N/A
B	110m S	460500 409100	THORPE MARSH 400 KV SUBSTN 1	-	Y	N/A
B	110m S	460500 409100	THORPE MARSH 400 KV SUBSTN 2	-	Y	N/A
20	112m N	460450 410750	KIRK BRAMWITH SHALLOW BORES	5.64	N	121194 ↗
C	128m S	460570 409270	THORPE MARSH-BRINSWORTH 400KV LINE 4ZH1A	-	Y	N/A

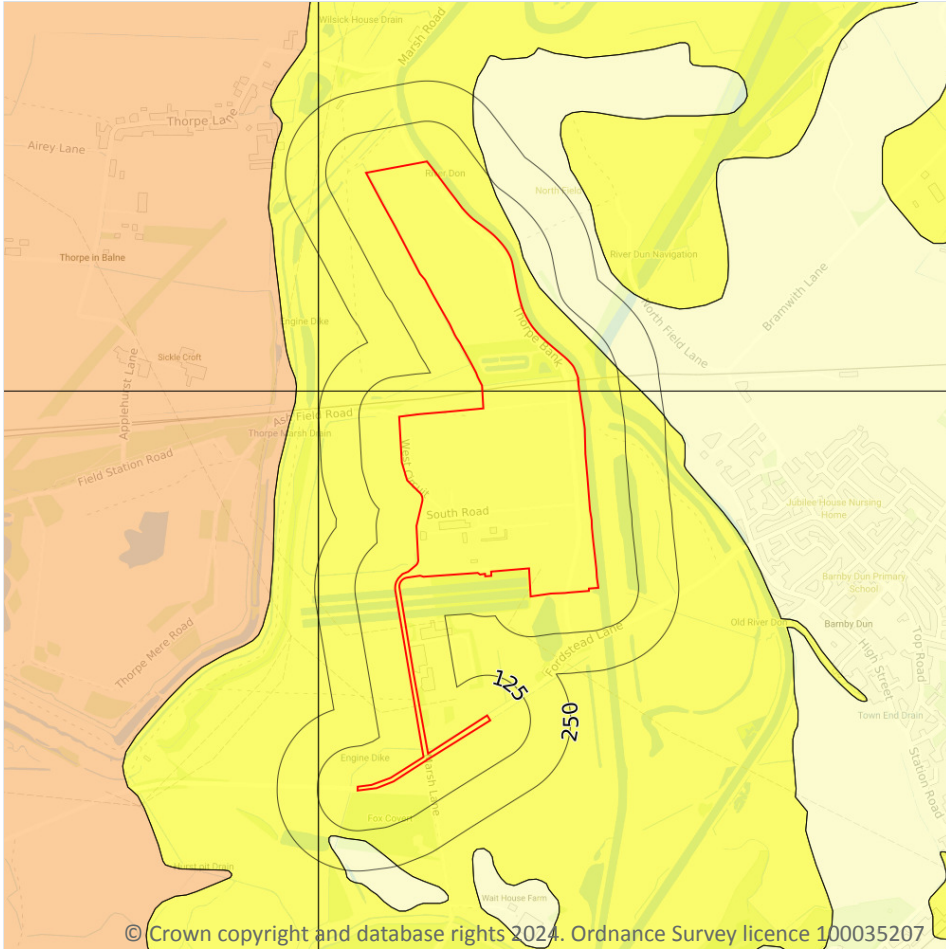


ID	Location	Grid reference	Name	Length	Confidential	Web link
D	130m N	460200 410820	EA BECK 3	-	Y	N/A
D	134m N	460180 410820	EA BECK 2	-	Y	N/A
C	135m S	460560 409270	THORPE MARSH-BRINSWORTH 400KV LINE 1	-	Y	N/A
C	150m S	460550 409260	THORPE MARSH-BRINSWORTH 400KV LINE 3	-	Y	N/A
21	171m SW	460068 409400	THORPE MARSH POWER STATION SITE INVESTIGATION BH3	-	Y	N/A
22	232m N	460180 410920	EA BECK TP 10	-	Y	N/A
23	244m SW	459994 409392	THORPE MARSH POWER STATION SITE INVESTIGATION BH2	-	Y	N/A

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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 124 >](#)

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
37m N	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



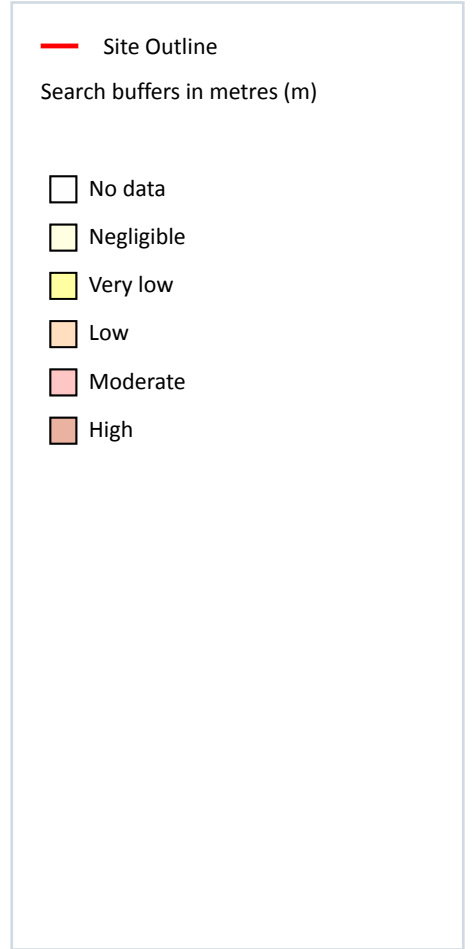
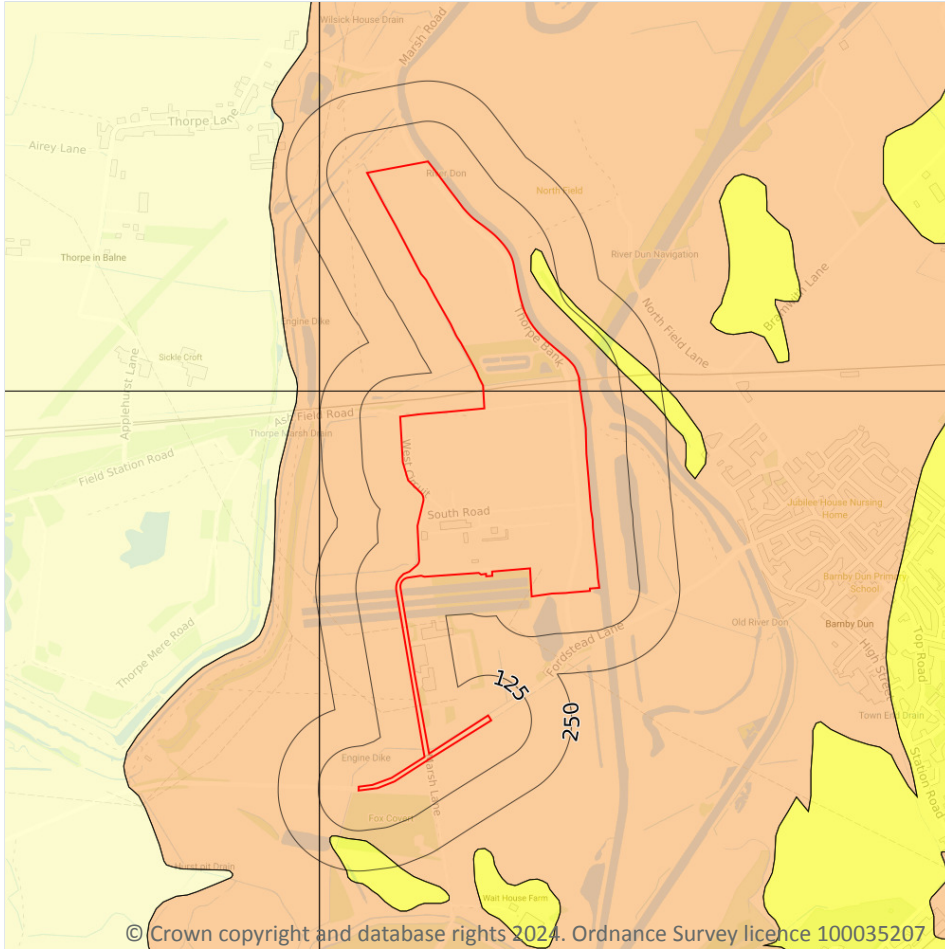
Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 125 >](#)

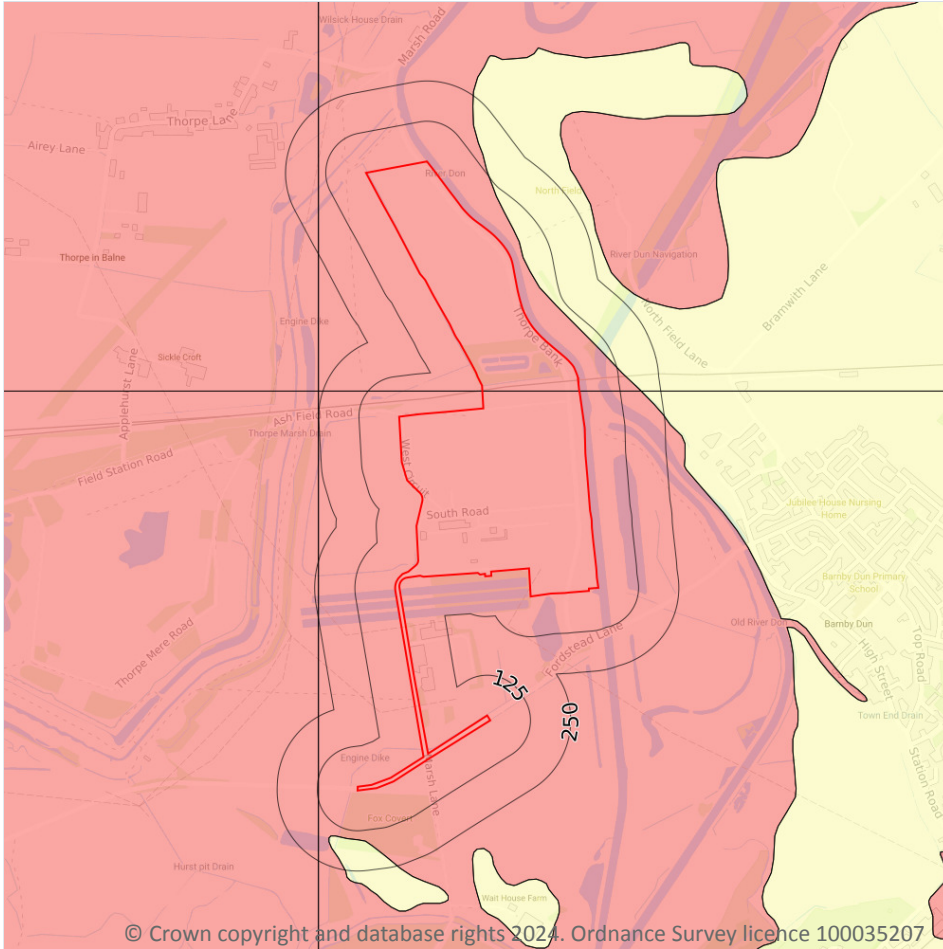
Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

Location	Hazard rating	Details
49m N	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 127 >](#)

Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
37m N	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



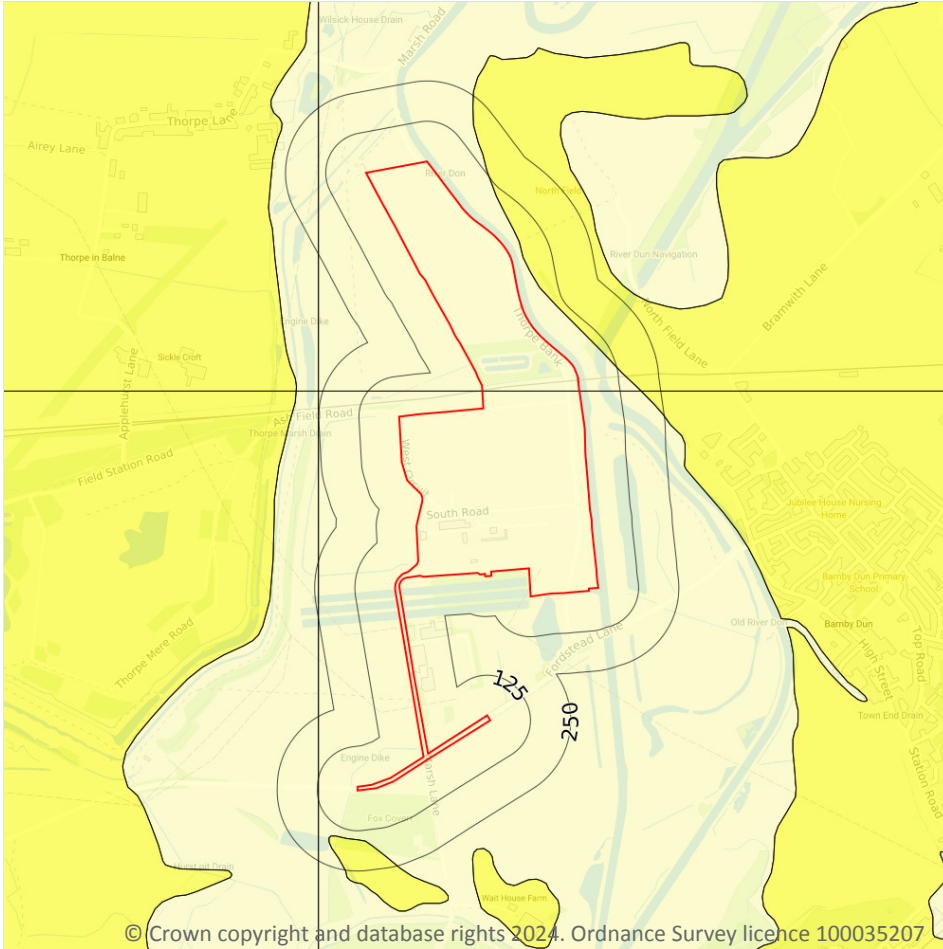
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Date: 12 January 2024

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 129 >](#)

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
37m N	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.



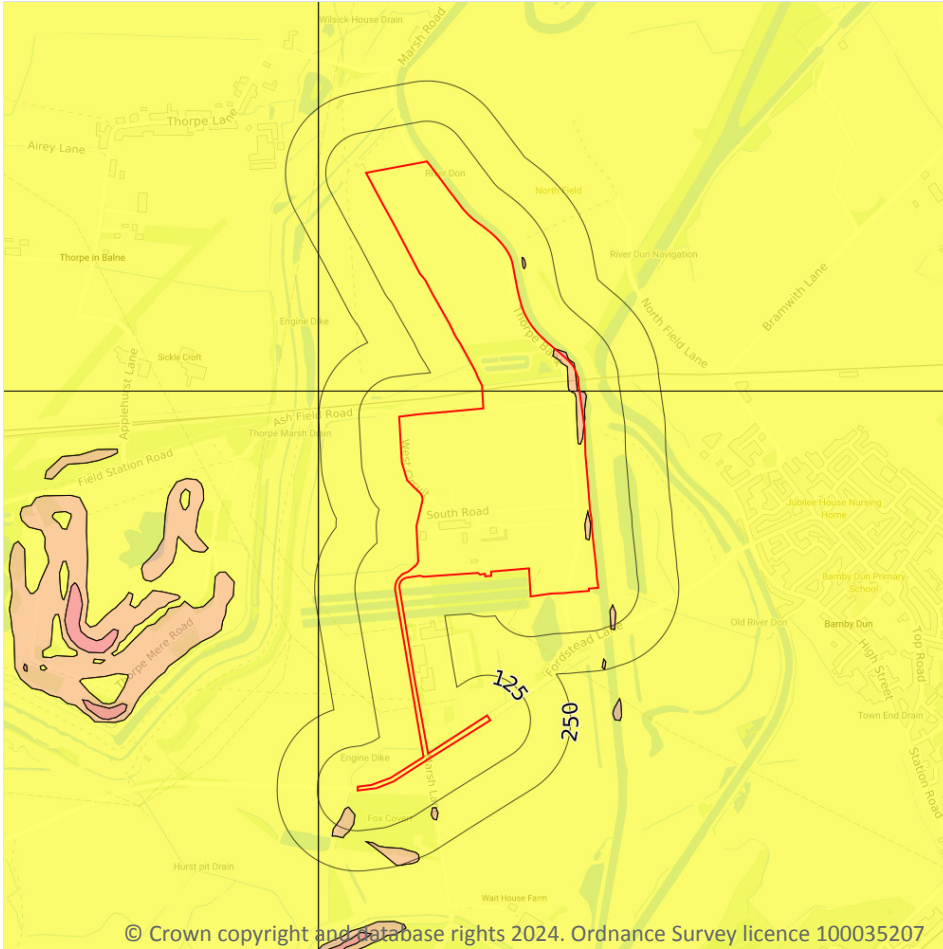
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Date: 12 January 2024

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

3

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 130](#) >

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.

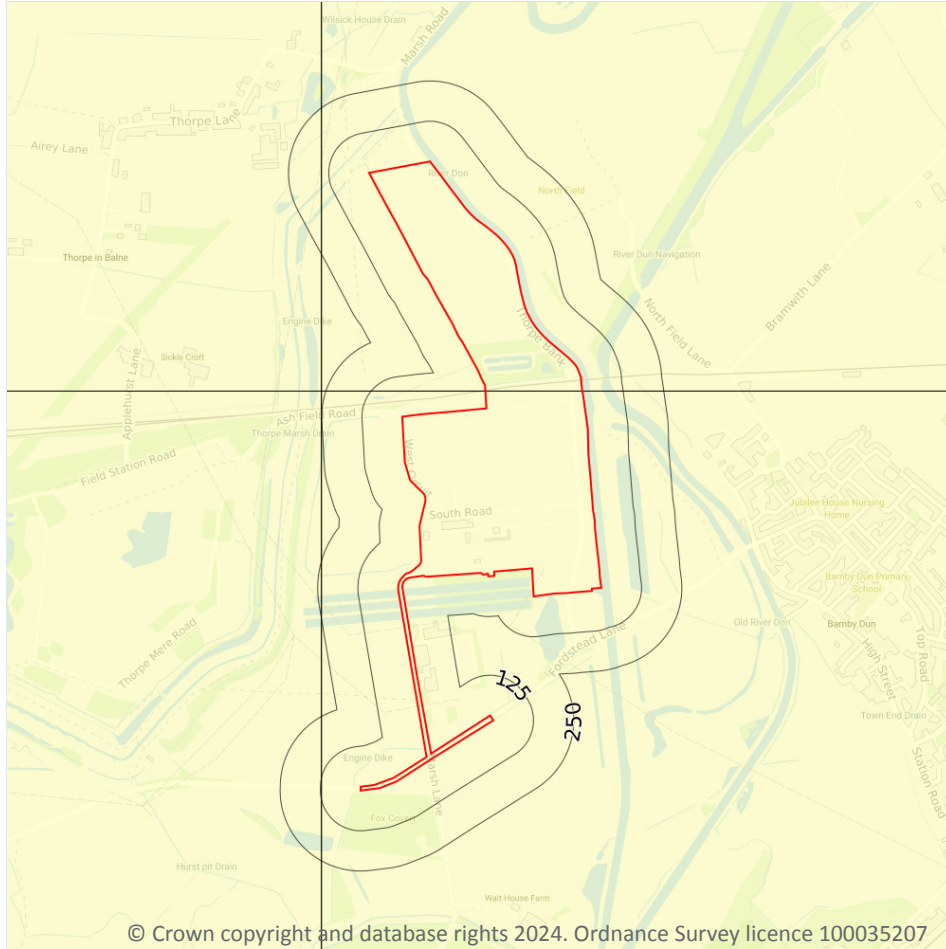


Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
30m N	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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 132](#) >

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.



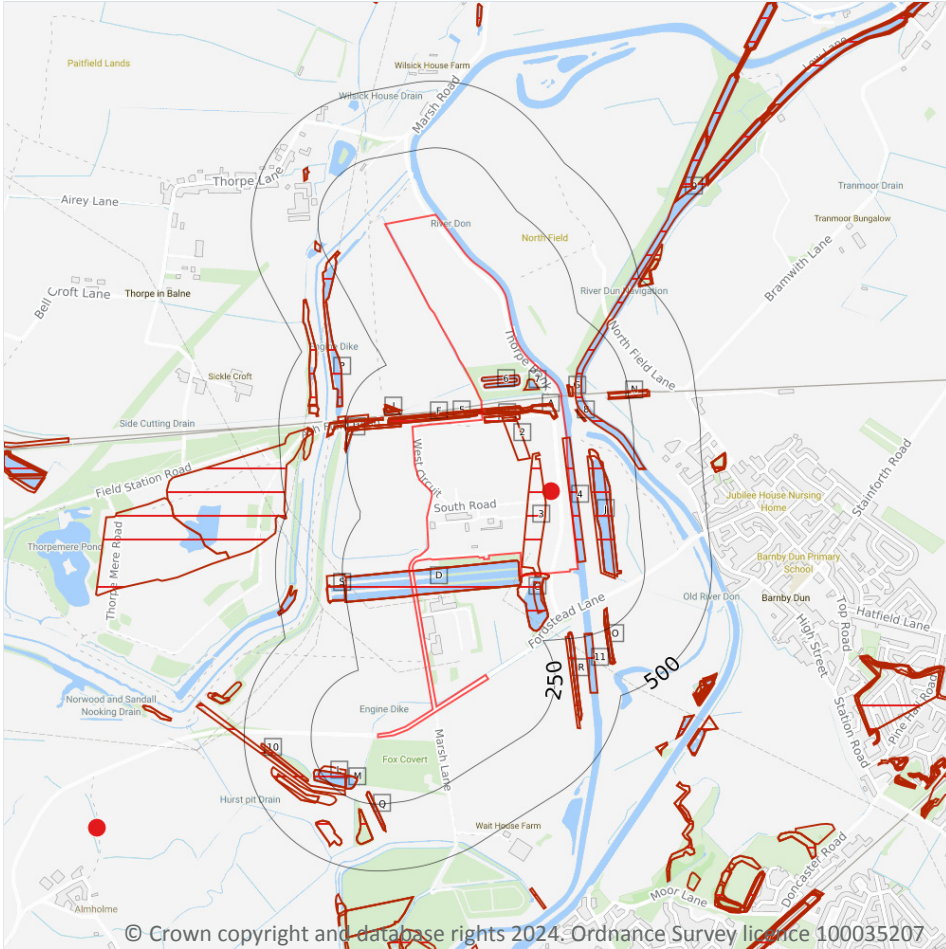
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Date: 12 January 2024

18 Mining and ground workings



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 134](#) >

ID	Location	Details	Description
1	On site	Name: Thorpe Marsh Power Station Address: Thorpe Marsh, DONCASTER, South Yorkshire Commodity: Oil Status: Ceased	Type: Wellsite, or other surface plant, extracting liquid or gas. Working may be for brine, oil or natural gas Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	68
----------------------------	-----------

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 134 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
2	On site	Pond	1951	1:10560
3	On site	Pond	1951	1:10560
4	On site	Pond	1951	1:10560
5	On site	Ponds	1933	1:10560
6	On site	Ponds	1983	1:10000
7	On site	Pond	1983	1:10000
A	On site	Ponds	1951	1:10560
A	On site	Water Body	1907	1:10560
B	On site	Ponds	1967	1:10560
B	On site	Ponds	1992	1:10000
B	On site	Ponds	1980	1:10560
C	On site	Pond	1967	1:10560
C	On site	Fish Pond	1992	1:10000
C	On site	Pond	1980	1:10560
D	On site	Water Bodies	1967	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	On site	Water Bodies	1980	1:10560
D	On site	Settling Ponds	1992	1:10000
E	On site	Water Bodies	1948	1:10560
E	On site	Water Bodies	1904	1:10560
F	3m N	Pond	1951	1:10560
F	15m W	Water Body	1907	1:10560
C	28m S	Pond	1951	1:10560
G	29m NE	Pond	1933	1:10560
G	33m NE	Pond	1907	1:10560
H	44m W	Unspecified Ground Workings	1967	1:10560
H	44m W	Unspecified Ground Workings	1992	1:10000
H	44m W	Unspecified Ground Workings	1980	1:10560
8	47m E	Pond	1907	1:10560
9	53m E	Canal	1933	1:10560
I	66m W	Pond	1933	1:10560
J	76m E	Pond	1951	1:10560
I	76m W	Pond	1951	1:10560
I	76m W	Pond	1967	1:10560
I	76m W	Pond	1992	1:10000
I	76m W	Pond	1980	1:10560
I	80m W	Pond	1948	1:10560
I	80m W	Pond	1904	1:10560
J	83m E	Ponds	1967	1:10560
J	83m E	Ponds	1992	1:10000
J	83m E	Ponds	1980	1:10560
K	113m W	Water Body	1904	1:10560
K	143m W	Pond	1907	1:10560
K	167m W	Cuttings	1951	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
L	172m SW	Pond	1951	1:10560
M	172m S	Pond	1967	1:10560
M	172m S	Pond	1992	1:10000
M	172m S	Pond	1980	1:10560
N	174m E	Cuttings	1907	1:10560
N	175m E	Cuttings	1904	1:10560
O	183m SE	Pond	1967	1:10560
O	183m SE	Pond	1992	1:10000
O	183m SE	Pond	1980	1:10560
L	185m S	Pond	1966	1:10560
L	185m S	Pond	1978	1:10000
P	201m NW	Ponds	1967	1:10560
P	201m NW	Ponds	1983	1:10000
O	204m SE	Pond	1951	1:10560
Q	208m S	Pond	1967	1:10560
Q	208m S	Pond	1992	1:10000
Q	208m S	Pond	1980	1:10560
R	227m S	Pond	1967	1:10560
R	227m S	Pond	1992	1:10000
R	227m S	Pond	1980	1:10560
10	235m S	Unspecified Heap	1951	1:10560
11	240m SE	Pond	1951	1:10560
S	242m SW	Ponds	1978	1:10000
S	242m SW	Ponds	1966	1:10560
R	242m S	Pond	1951	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.3 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.



18.8 The Coal Authority non-coal mining

Records within 500m

0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

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

This data is sourced from Groundsure.



18.12 Coal mining

Records on site 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.

19.5 National karst database

Records within 500m

0

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

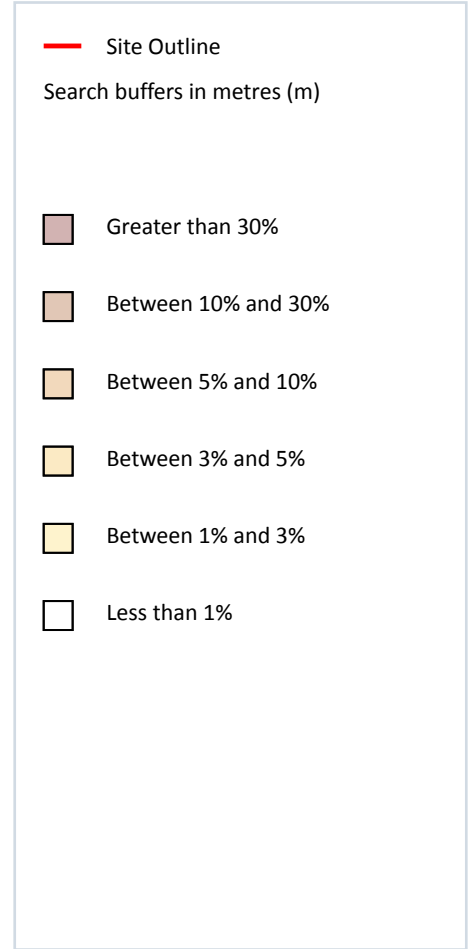
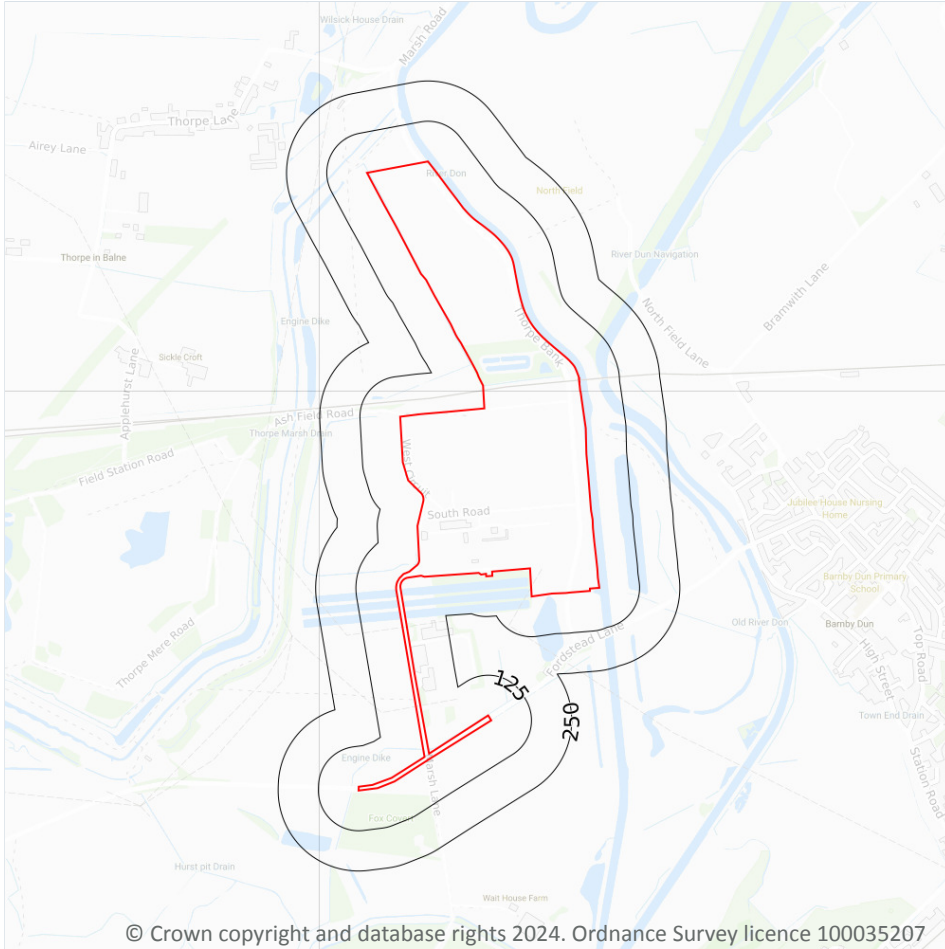
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

1

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

Features are displayed on the Radon map on [page 143 >](#)

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



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



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Date: 12 January 2024

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

16

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
8m S	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
9m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
37m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
49m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

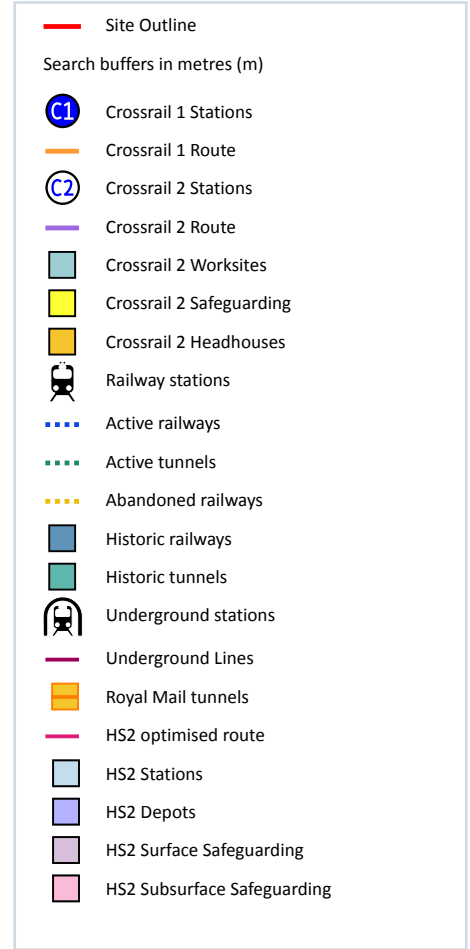
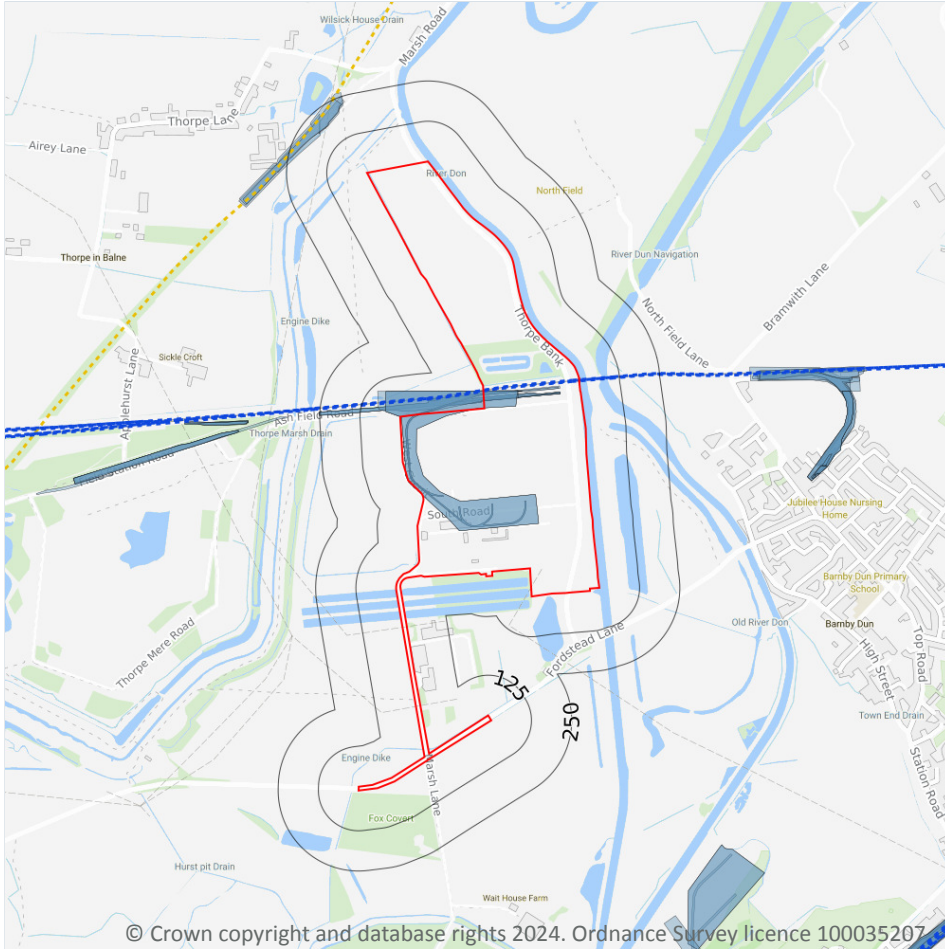
0

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



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

14

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 147 >](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1993	2500
On site	Railway Sidings	1984	2500
On site	Railway Sidings	1978	2500
On site	Railway Sidings	1969	2500
On site	Railway Sidings	1962	2500
On site	Railway Sidings	1967	10560
On site	Railway Sidings	1992	10000
On site	Railway Sidings	1980	10560
39m W	Railway Sidings	1969	2500
39m W	Railway Sidings	1962	2500
186m NW	Railway Sidings	1951	10560
189m NW	Railway Sidings	1951	10560
190m NW	Railway Sidings	1948	10560
191m NW	Railway Sidings	1933	10560

This data is sourced from Ordnance Survey/Groundsure.



22.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

1

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 147 >](#)

Location	Description
222m NW	Abandoned

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

13

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

Features are displayed on the Railway infrastructure and projects map on [page 147 >](#)

Location	Name	Type
On site	Carcroft Junction to Stainforth Junction Line	rail
On site	Carcroft Junction to Stainforth Junction Line	rail
On site	Carcroft Junction to Stainforth Junction Line	rail
On site	Carcroft Junction to Stainforth Junction Line	rail
On site	Not given	Multi Track
On site	Not given	Multi Track
46m W	Not given	Multi Track
46m W	Not given	Multi Track



Location	Name	Type
46m W	Not given	Multi Track
46m W	Not given	Multi Track
96m E	Not given	Multi Track
107m E	Carcroft Junction to Stainforth Junction Line	rail
108m E	Carcroft Junction to Stainforth Junction Line	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

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



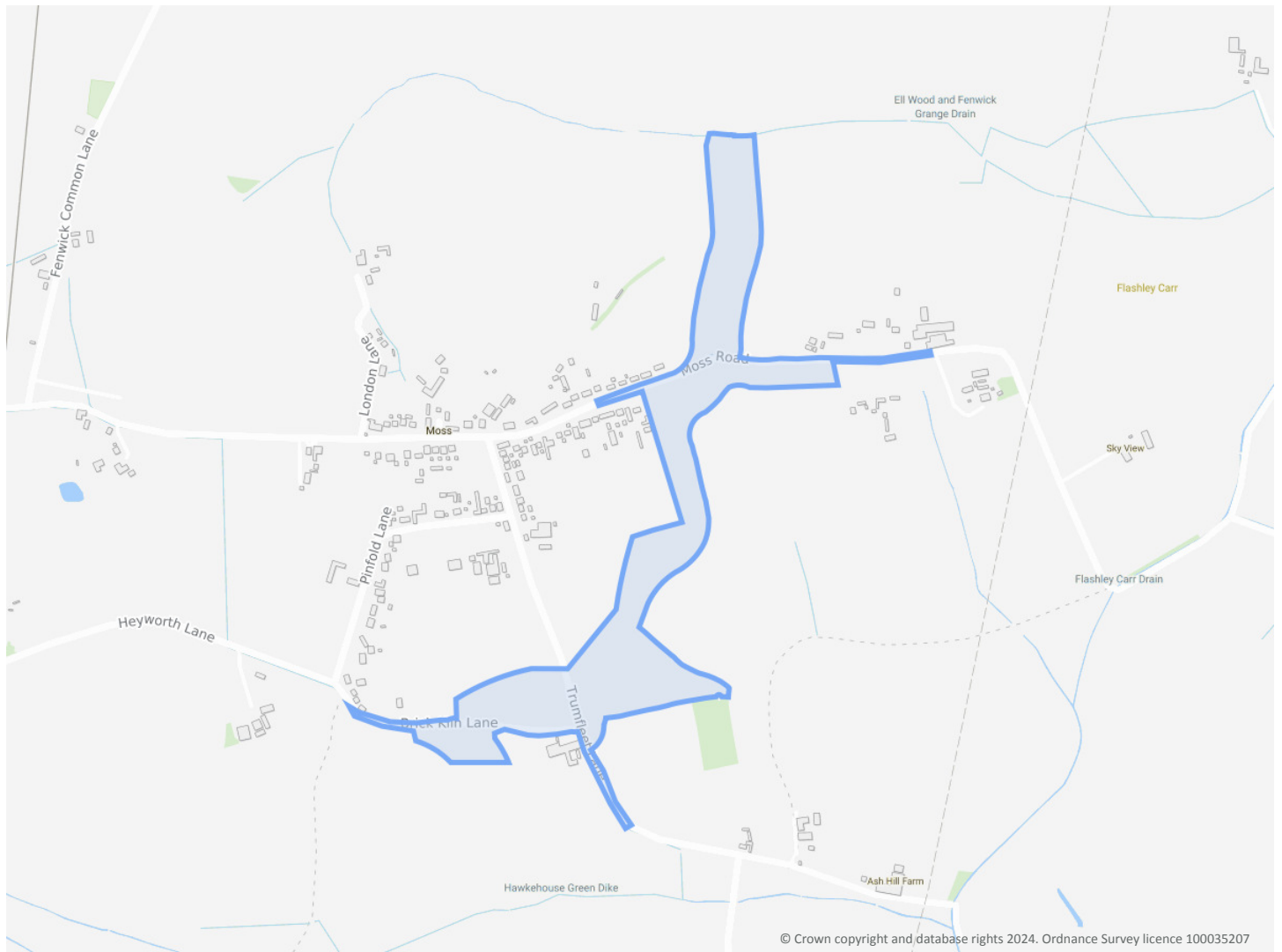
Fenwick

Order Details

Date: 12/01/2024
Your ref: Fenwick
Our Ref: GSIP-2024-14447-16721_A

Site Details

Location: 460133 414105
Area: 19.87 ha
Authority: [Doncaster Metropolitan Borough Council](#) ↗



Summary of findings

[p. 2 >](#)

Aerial image

[p. 9 >](#)

OS MasterMap site plan

N/A: >10ha

groundsure.com/insightuserguide ↗

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	0	2	-
15	1.2	Historical tanks	0	0	0	0	-
15	1.3	Historical energy features	0	0	0	0	-
15	1.4	Historical petrol stations	0	0	0	0	-
16 >	1.5 >	Historical garages >	0	0	0	2	-
16	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
17 >	2.1 >	Historical industrial land uses >	0	0	0	3	-
18	2.2	Historical tanks	0	0	0	0	-
18	2.3	Historical energy features	0	0	0	0	-
18	2.4	Historical petrol stations	0	0	0	0	-
18 >	2.5 >	Historical garages >	0	0	0	3	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
20	3.1	Active or recent landfill	0	0	0	0	-
20	3.2	Historical landfill (BGS records)	0	0	0	0	-
21	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
21	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
21	3.5	Historical waste sites	0	0	0	0	-
21	3.6	Licensed waste sites	0	0	0	0	-
21 >	3.7 >	Waste exemptions >	0	17	54	23	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
30 >	4.1 >	Recent industrial land uses >	0	1	2	-	-
31	4.2	Current or recent petrol stations	0	0	0	0	-
31	4.3	Electricity cables	0	0	0	0	-
31	4.4	Gas pipelines	0	0	0	0	-
31	4.5	Sites determined as Contaminated Land	0	0	0	0	-



31	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
32	4.7	Regulated explosive sites	0	0	0	0	-
32	4.8	Hazardous substance storage/usage	0	0	0	0	-
32	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
32	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
32	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
33	4.12	Radioactive Substance Authorisations	0	0	0	0	-
33 >	4.13 >	<u>Licensed Discharges to controlled waters ></u>	0	0	3	8	-
35	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
35	4.15	Pollutant release to public sewer	0	0	0	0	-
35	4.16	List 1 Dangerous Substances	0	0	0	0	-
35	4.17	List 2 Dangerous Substances	0	0	0	0	-
36 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	0	0	3	0	-
36	4.19	Pollution inventory substances	0	0	0	0	-
36	4.20	Pollution inventory waste transfers	0	0	0	0	-
37	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
38 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
40 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
42 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
43	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
44	5.5	Groundwater vulnerability- local information	None (within 0m)				
45	5.6	Groundwater abstractions	0	0	0	0	0
46 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	0	6
47	5.8	Potable abstractions	0	0	0	0	0
47	5.9	Source Protection Zones	0	0	0	0	-
47	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
48 >	6.1 >	<u>Water Network (OS MasterMap) ></u>	7	13	5	-	-



51 >	6.2 >	Surface water features >	1	8	6	-	-
51 >	6.3 >	WFD Surface water body catchments >	2	-	-	-	-
51 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
52 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
53 >	7.1 >	Risk of flooding from rivers and the sea >	Low (within 50m)				
54 >	7.2 >	Historical Flood Events >	1	2	5	-	-
55	7.3	Flood Defences	0	0	0	-	-
55 >	7.4 >	Areas Benefiting from Flood Defences >	0	1	0	-	-
55	7.5	Flood Storage Areas	0	0	0	-	-
56 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
57 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
58 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
60 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
61	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
62	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
62	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
62	10.4	Special Protection Areas (SPA)	0	0	0	0	0
62	10.5	National Nature Reserves (NNR)	0	0	0	0	0
63	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
63 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	1
63	10.8	Biosphere Reserves	0	0	0	0	0
63	10.9	Forest Parks	0	0	0	0	0
64	10.10	Marine Conservation Zones	0	0	0	0	0
64 >	10.11 >	Green Belt >	0	0	0	0	1
64	10.12	Proposed Ramsar sites	0	0	0	0	0



64	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
65	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
65	10.15	Nitrate Sensitive Areas	0	0	0	0	0
65 >	10.16 >	Nitrate Vulnerable Zones >	2	0	0	0	3
66 >	10.17 >	SSSI Impact Risk Zones >	3	-	-	-	-
67	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
68	11.1	World Heritage Sites	0	0	0	-	-
69	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
69	11.3	National Parks	0	0	0	-	-
69 >	11.4 >	Listed Buildings >	0	0	1	-	-
70	11.5	Conservation Areas	0	0	0	-	-
70	11.6	Scheduled Ancient Monuments	0	0	0	-	-
70	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
71 >	12.1 >	Agricultural Land Classification >	Grade 3 (within 250m)				
72	12.2	Open Access Land	0	0	0	-	-
72	12.3	Tree Felling Licences	0	0	0	-	-
72 >	12.4 >	Environmental Stewardship Schemes >	0	0	1	-	-
73 >	12.5 >	Countryside Stewardship Schemes >	1	1	2	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
74 >	13.1 >	Priority Habitat Inventory >	0	0	1	-	-
75	13.2	Habitat Networks	0	0	0	-	-
75	13.3	Open Mosaic Habitat	0	0	0	-	-
75	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
76 >	14.1 >	10k Availability >	Identified (within 500m)				
78	14.2	Artificial and made ground (10k)	0	0	0	0	-
79 >	14.3 >	Superficial geology (10k) >	2	1	3	5	-



80	14.4	Landslip (10k)	0	0	0	0	-
81 >	14.5 >	Bedrock geology (10k) >	4	0	2	0	-
82 >	14.6 >	Bedrock faults and other linear features (10k) >	2	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
83 >	15.1 >	50k Availability >	Identified (within 500m)				
84	15.2	Artificial and made ground (50k)	0	0	0	0	-
84	15.3	Artificial ground permeability (50k)	0	0	-	-	-
85 >	15.4 >	Superficial geology (50k) >	1	1	1	4	-
86 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
86	15.6	Landslip (50k)	0	0	0	0	-
86	15.7	Landslip permeability (50k)	None (within 50m)				
87 >	15.8 >	Bedrock geology (50k) >	1	0	0	0	-
88 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
88 >	15.10 >	Bedrock faults and other linear features (50k) >	1	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
89 >	16.1 >	BGS Boreholes >	0	1	0	-	-
Page	Section	Natural ground subsidence >					
90 >	17.1 >	Shrink swell clays >	Low (within 50m)				
91 >	17.2 >	Running sands >	Low (within 50m)				
93 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
95 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
96 >	17.5 >	Landslides >	Very low (within 50m)				
97 >	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
99	18.1	BritPits	0	0	0	0	-
99	18.2	Surface ground workings	0	0	0	-	-
99	18.3	Underground workings	0	0	0	0	0
99	18.4	Underground mining extents	0	0	0	0	-
100	18.5	Historical Mineral Planning Areas	0	0	0	0	-



100	18.6	Non-coal mining	0	0	0	0	0
100	18.7	JPB mining areas	None (within 0m)				
100	18.8	The Coal Authority non-coal mining	0	0	0	0	-
101	18.9	Researched mining	0	0	0	0	-
101	18.10	Mining record office plans	0	0	0	0	-
101	18.11	BGS mine plans	0	0	0	0	-
101 >	18.12 >	Coal mining >	Identified (within 0m)				
102	18.13	Brine areas	None (within 0m)				
102	18.14	Gypsum areas	None (within 0m)				
102	18.15	Tin mining	None (within 0m)				
102	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
103	19.1	Natural cavities	0	0	0	0	-
103	19.2	Mining cavities	0	0	0	0	0
103	19.3	Reported recent incidents	0	0	0	0	-
103	19.4	Historical incidents	0	0	0	0	-
104	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
105 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
107 >	21.1 >	BGS Estimated Background Soil Chemistry >	9	5	-	-	-
108	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
108	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
109	22.1	Underground railways (London)	0	0	0	-	-
109	22.2	Underground railways (Non-London)	0	0	0	-	-
109	22.3	Railway tunnels	0	0	0	-	-
109	22.4	Historical railway and tunnel features	0	0	0	-	-
109	22.5	Royal Mail tunnels	0	0	0	-	-



110	22.6	Historical railways	0	0	0	-	-
110	22.7	Railways	0	0	0	-	-
110	22.8	Crossrail 1	0	0	0	0	-
110	22.9	Crossrail 2	0	0	0	0	-
110	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 19/04/2021

Site Area: 19.87ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024



Recent site history - 2020 aerial photograph



Capture Date: 24/06/2020

Site Area: 19.87ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024



Recent site history - 2013 aerial photograph



Capture Date: 07/06/2013

Site Area: 19.87ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024

Recent site history - 2009 aerial photograph



Capture Date: 11/09/2009

Site Area: 19.87ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024

Recent site history - 1999 aerial photograph



Capture Date: 03/05/1999

Site Area: 19.87ha



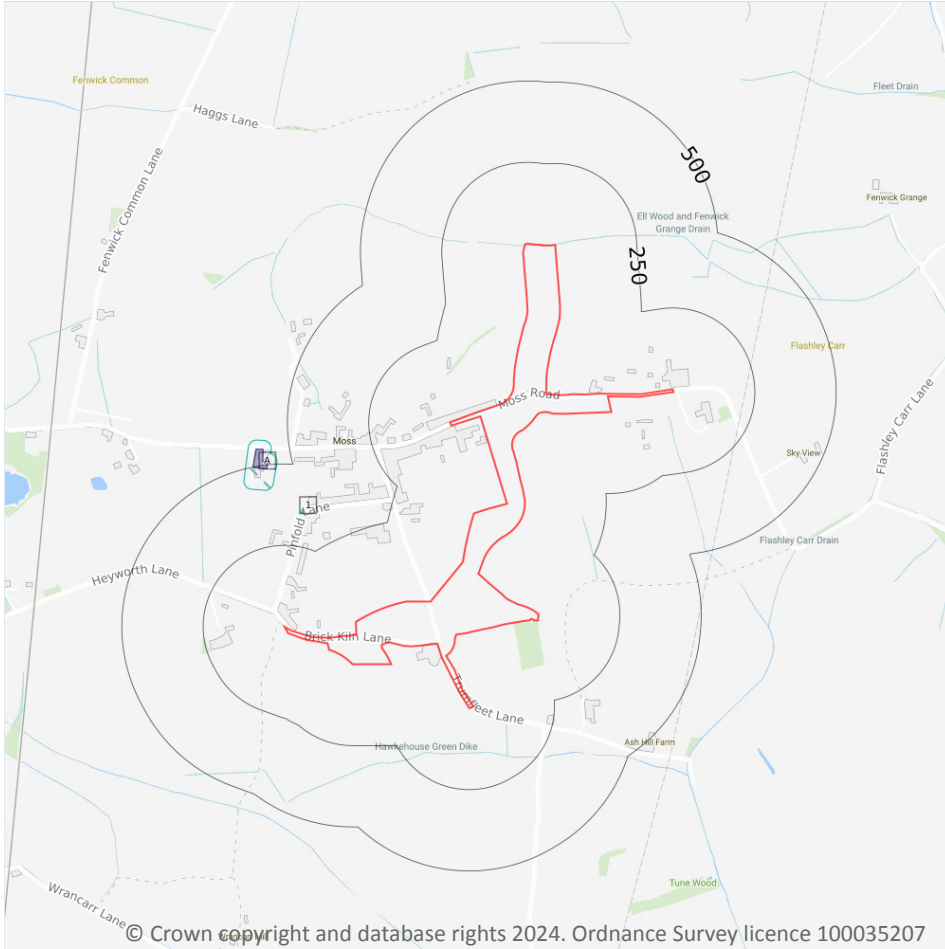
Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 12 January 2024

1 Past land use



— Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical garages

1.1 Historical industrial land uses

Records within 500m **2**

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
1	354m W	Smithy	1904	1457368

ID	Location	Land use	Dates present	Group ID
A	423m W	Garage	1967 - 1983	1533182

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m

2

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
A	489m W	Garage	1964 - 1993	46576
A	489m W	Garage	-	41060

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

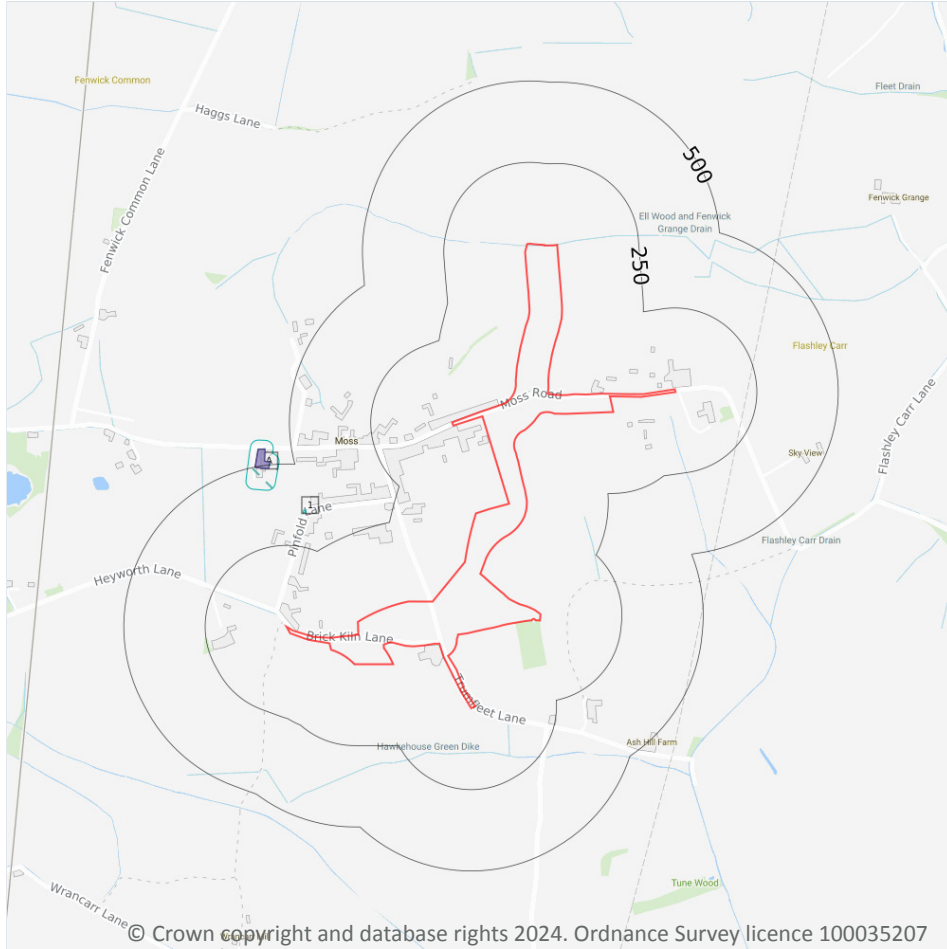
0

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 garages

2.1 Historical industrial land uses

Records within 500m

3

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 17](#) >

ID	Location	Land Use	Date	Group ID
1	354m W	Smithy	1904	1457368
A	423m W	Garage	1967	1533182
A	490m W	Garage	1983	1533182

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

0

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'.

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

0

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'.

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

3

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 17 >](#)

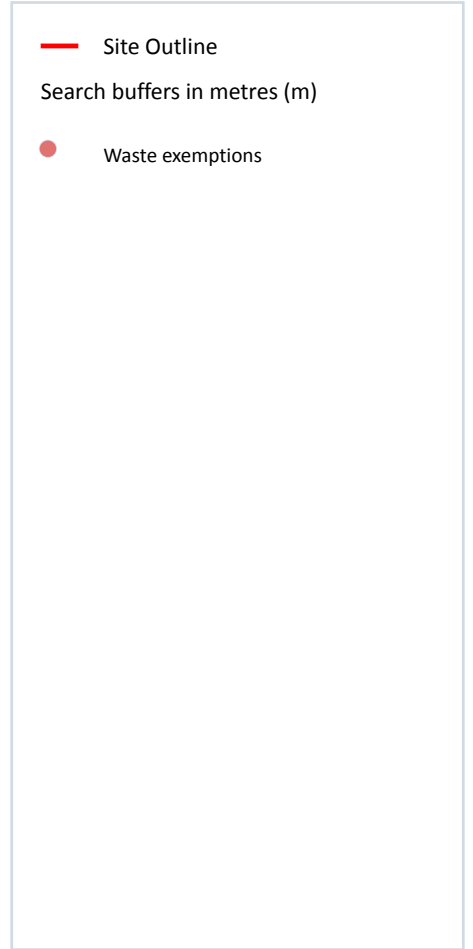
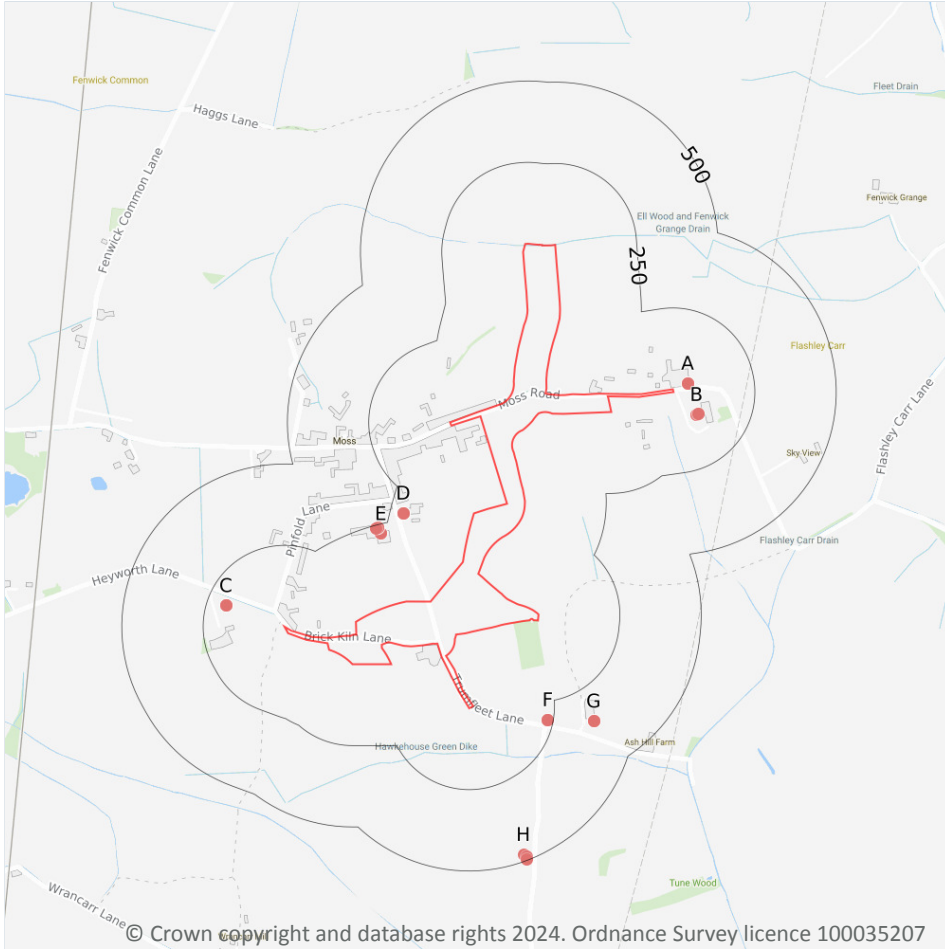
ID	Location	Land Use	Date	Group ID
A	489m W	Garage	1964	46576
A	489m W	Garage	1993	46576
A	489m W	Garage	-	41060



This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

0

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

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

3.5 Historical waste sites

Records within 500m

0

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

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

3.6 Licensed waste sites

Records within 500m

0

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

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

3.7 Waste exemptions

Records within 500m

94

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 20 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	48m NE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX330241	Storing waste exemption	On a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
A	48m NE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX330241	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	48m NE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX204731	Storing waste exemption	On a Farm	Storage of waste in a secure place
A	48m NE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX054827	Storing waste exemption	On a farm	Storage of waste in a secure place
A	48m NE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX204731	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
A	48m NE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX054827	Treating waste exemption	On a farm	Manual treatment of waste
A	48m NE	MOSELEY HOUSE FARM, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX054827	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	48m NE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
A	48m NE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in secure containers
A	48m NE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in a secure place
A	48m NE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
A	48m NE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
A	48m NE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
A	48m NE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Disposing of waste exemption	Agricultural Waste Only	Disposal by incineration



ID	Location	Site	Reference	Category	Sub-Category	Description
A	48m NE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	48m NE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
A	48m NE	Moseley House Farm Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/UE5280C R/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
B	100m E	Moseley Grange Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/VE5286B G/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
B	100m E	Moseley Grange Moss Road DONCASTER South Yorkshire DN6 0HN	EPR/VE5286B G/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
B	102m E	MOSELEY GRANGE, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX036759	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	102m E	MOSELEY GRANGE, MOSS ROAD, MOSS, DONCASTER, DN6 0HN	WEX036759	Disposing of waste exemption	On a farm	Burning waste in the open
C	191m SW	Heyworth Lane Farm Pinfold Lane DONCASTER South Yorkshire DN6 0ED	EPR/QF0739CF /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
C	191m SW	Heyworth Lane Farm Pinfold Lane DONCASTER South Yorkshire DN6 0ED	EPR/QF0739CF /A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
C	191m SW	Heyworth Lane Farm Pinfold Lane DONCASTER South Yorkshire DN6 0ED	EPR/QF0739CF /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
C	193m SW	HEYWORTH LANE FARM, PINFOLD LANE, MOSS, DONCASTER, DN6 0ED	WEX210823	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
C	193m SW	HEYWORTH LANE FARM, PINFOLD LANE, MOSS, DONCASTER, DN6 0ED	WEX062561	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	193m SW	HEYWORTH LANE FARM, PINFOLD LANE, MOSS, DONCASTER, DN6 0ED	WEX210823	Disposing of waste exemption	On a Farm	Burning waste in the open



ID	Location	Site	Reference	Category	Sub-Category	Description
C	193m SW	HEYWORTH LANE FARM, PINFOLD LANE, MOSS, DONCASTER, DN6 0ED	WEX062561	Disposing of waste exemption	On a farm	Burning waste in the open
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Using waste exemption	On a farm	Incorporation of ash into soil
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Using waste exemption	On a farm	Use of waste for a specified purpose
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Using waste exemption	On a farm	Use of waste in construction
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Disposing of waste exemption	On a farm	Burning waste in the open
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX320287	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Using waste exemption	On a Farm	Use of waste in construction
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Using waste exemption	On a Farm	Use of waste for a specified purpose
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Using waste exemption	On a Farm	Incorporation of ash into soil
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Using waste exemption	On a farm	Use of waste in construction
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Using waste exemption	On a farm	Incorporation of ash into soil
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Using waste exemption	On a farm	Use of waste for a specified purpose
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Disposing of waste exemption	On a Farm	Burning waste in the open
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX191575	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Disposing of waste exemption	On a farm	Burning waste in the open
D	209m W	PEAR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX028042	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	219m W	FIR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX326038	Disposing of waste exemption	On a farm	Burning waste in the open
E	219m W	FIR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX199915	Disposing of waste exemption	On a Farm	Burning waste in the open
E	219m W	FIR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX048476	Disposing of waste exemption	On a farm	Burning waste in the open
F	233m S	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
F	233m S	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Using waste exemption	On a farm	Use of waste in construction
F	233m S	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Using waste exemption	On a farm	Incorporation of ash into soil
F	233m S	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
F	233m S	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Using waste exemption	On a farm	Use of waste for a specified purpose
F	233m S	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
F	233m S	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
F	233m S	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Using waste exemption	Both agricultural and non-agricultural waste	Incorporation of ash into soil
F	233m S	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
F	233m S	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
F	233m S	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Disposing of waste exemption	On a farm	Burning waste in the open



ID	Location	Site	Reference	Category	Sub-Category	Description
F	233m S	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX027982	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	233m S	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
F	233m S	Hawke House Green Farm Hawkehouse Green Doncaster South Yorkshire DN6 0DL	EPR/CH0375F V/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
E	239m W	Fir Tree Farm Trumfleet Lane DONCASTER South Yorkshire DN6 0EB	EPR/ZF0331M X/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
E	239m W	Fir Tree Farm Trumfleet Lane DONCASTER South Yorkshire DN6 0EB	EPR/ZF0331M X/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in secure containers
E	239m W	Fir Tree Farm Trumfleet Lane DONCASTER South Yorkshire DN6 0EB	EPR/ZF0331M X/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	239m W	Fir Tree Farm Trumfleet Lane DONCASTER South Yorkshire DN6 0EB	EPR/ZF0331M X/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
E	240m W	FIR TREE FARM, TRUMFLEET LANE, MOSS, DONCASTER, DN6 0EB	WEX352554	Disposing of waste exemption	On a farm	Burning waste in the open
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX320291	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX320291	Using waste exemption	On a farm	Incorporation of ash into soil
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX320291	Using waste exemption	On a farm	Use of waste for a specified purpose



ID	Location	Site	Reference	Category	Sub-Category	Description
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX320291	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX320291	Using waste exemption	On a farm	Use of waste in construction
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX255801	Using waste exemption	On a farm	Use of waste in construction
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX320291	Disposing of waste exemption	On a farm	Burning waste in the open
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX320291	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX191542	Using waste exemption	On a Farm	Use of waste in construction
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX191542	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX191542	Using waste exemption	On a Farm	Use of waste for a specified purpose
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX191542	Using waste exemption	On a Farm	Incorporation of ash into soil
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX191542	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters

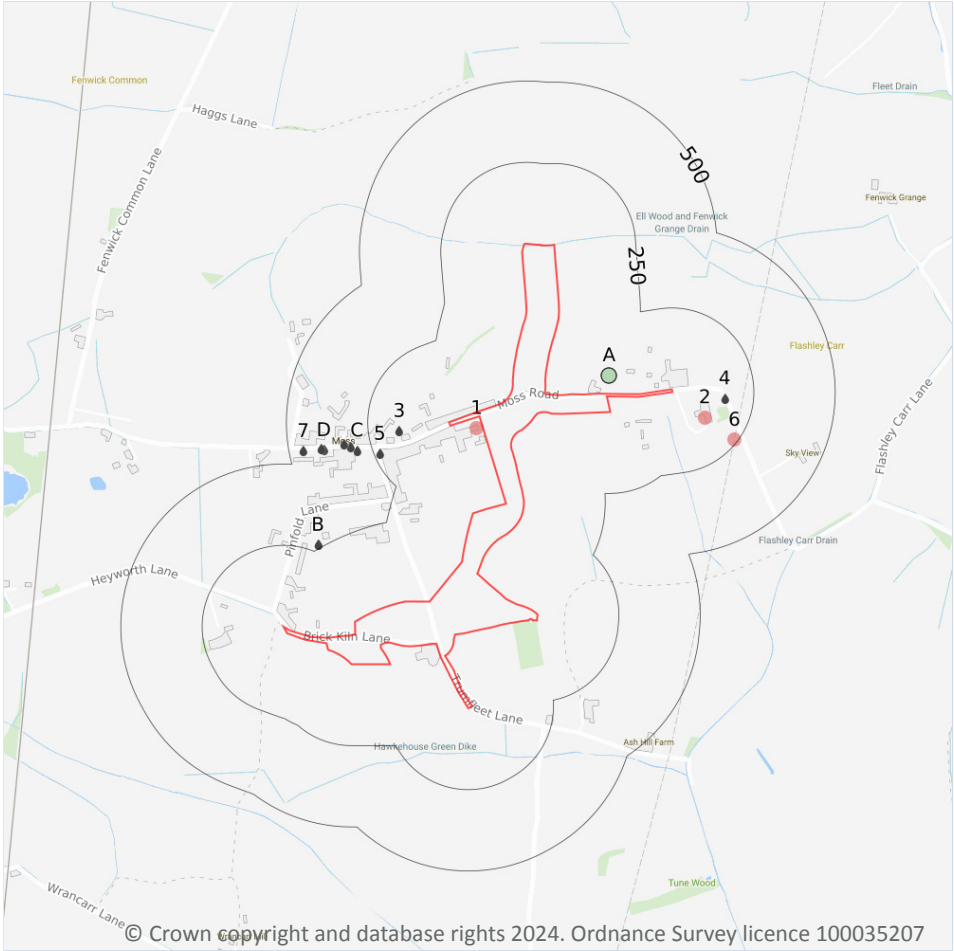


ID	Location	Site	Reference	Category	Sub-Category	Description
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX191542	Disposing of waste exemption	On a Farm	Burning waste in the open
G	355m SE	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX191542	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
G	355m SE	ash hill farm,hawkehouse green, moss, doncaster, dn60dl	WEX008719	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
G	355m SE	ash hill farm,hawkehouse green, moss, doncaster, dn60dl	WEX008719	Using waste exemption	On a farm	Use of waste in construction
G	355m SE	ash hill farm,hawkehouse green, moss, doncaster, dn60dl	WEX008719	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
G	355m SE	ash hill farm,hawkehouse green, moss, doncaster, dn60dl	WEX008719	Disposing of waste exemption	On a farm	Burning waste in the open
G	355m SE	ash hill farm,hawkehouse green, moss, doncaster, dn60dl	WEX008719	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
H	481m S	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX141578	Storing waste exemption	On a farm	Storage of sludge
H	491m S	-	WEX256644	Storing waste exemption	On a farm	Storage of sludge
H	497m S	HAWKE HOUSE GREEN FARM, HAWKEHOUSE GREEN, MOSS, DONCASTER, DN6 0DL	WEX158305	Storing waste exemption	On a Farm	Storage of sludge

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 Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m **3**

Current potentially contaminative industrial sites.

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

ID	Location	Company	Address	Activity	Category
1	19m N	Brason Transport Ltd	Park Gate Farm, Moss Road, Moss, Doncaster, South Yorkshire, DN6 0HN	Distribution and Haulage	Transport, Storage and Delivery
2	126m E	Pump	South Yorkshire, DN6	Water Pumping Stations	Industrial Features

ID	Location	Company	Address	Activity	Category
6	240m E	Pylon	South Yorkshire, DN6	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m **0**

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m **0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m **0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m **0**

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m **0**

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

This data is sourced from the Health and Safety Executive.



4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

0

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

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

11

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

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

ID	Location	Address	Details	
3	155m NW	MOSELEY HOUSE FARM, MOSS, DONCASTER, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 1344 Permit Version: 1 Receiving Water: TRIB OF FENWICK DRAIN	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 26/09/1961 Effective Date: 26/09/1961 Revocation Date: -
4	161m E	MOSELEY GRANGE, MOSS ROAD, MOSS, DONCASTER, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 1595 Permit Version: 1 Receiving Water: TRIB OF ASH CARR	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 27/07/1963 Effective Date: 27/07/1963 Revocation Date: -
5	233m NW	GREENACRE, TRUMFLEET LANE, MOSS, DONCASTER, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA7940 Permit Version: 1 Receiving Water: TRIB OF FLASHY CARR DRAIN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 28/01/2003 Effective Date: 28/01/2003 Revocation Date: -
B	261m W	BUNGALOW ON PINFOLD LANE, MOSS, DONCASTER, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: C3845 Permit Version: 1 Receiving Water: SOAKAWAY ADJ TO PINFOLD FARM	Status: TRANSFERRED FROM COPA 1974 Issue date: 11/01/1985 Effective Date: 11/01/1985 Revocation Date: 25/07/2012



ID	Location	Address	Details	
B	261m W	BUNGALOW ON PINFOLD LANE, MOSS, DONCASTER, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: C3845 Permit Version: 2 Receiving Water: SOAKAWAY ADJ TO PINFOLD FARM	Status: TRANSFERRED FROM COPA 1974 Issue date: 26/07/2012 Effective Date: 26/07/2012 Revocation Date: -
C	296m W	PINFOLD LANE, MOSS, DONCASTER, SOUTH YORKSHIRE, DN6 0ED	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA7830 Permit Version: 1 Receiving Water: MOSS DYKE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/03/2002 Effective Date: 27/03/2002 Revocation Date: -
C	312m W	MOSS HAVEN STW, DONCASTER, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 3299 Permit Version: 2 Receiving Water: TRIBUTARY OF BRAMWITH DRAIN	Status: REVISED CONSENT, BY NOTICE (SECTION 37(1)) Issue date: 07/02/1994 Effective Date: 07/02/1994 Revocation Date: 23/03/1994
C	330m W	MOSS HAVEN STW, DONCASTER, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 3299 Permit Version: 1 Receiving Water: TRIBUTARY OF BRAMWITH DRAIN	Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 11/07/1978 Effective Date: 11/07/1978 Revocation Date: 06/02/1994
D	394m W	PLOT 2 WILLOWFIELD, MOSS ROAD, MOSS, DONCASTER, YORKSHIRE, DN6 0HH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRDP3725GV Permit Version: 1 Receiving Water: ELI WOOD AND FENWICK DRAIN	Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/08/2010 Effective Date: 27/08/2010 Revocation Date: -
D	402m W	CONVERSION UNIT SERVING WILLOWFIELD, MOSS ROAD, MOSS, DONCASTER, DN6 0HH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRBB3293VA Permit Version: 1 Receiving Water: ELL WOOD & FENWICK GRANGE DRAIN	Status: NEW ISSUED UNDER EPR 2010 Issue date: 12/08/2014 Effective Date: 12/08/2014 Revocation Date: -



ID	Location	Address	Details	
7	457m W	PLOT 1 WILLOWFIELD, MOSS ROAD, MOSS, DONCASTER, YORKSHIRE, DN6 0HH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRDP3323GM Permit Version: 1 Receiving Water: ELI WOOD FENWICK GRANGE DRAIN	Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/08/2010 Effective Date: 27/08/2010 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m **0**

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

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

4.15 Pollutant release to public sewer

Records within 500m **0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m **0**

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

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

4.17 List 2 Dangerous Substances

Records within 500m **0**

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

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



4.18 Pollution Incidents (EA/NRW)

Records within 500m

3

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

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

ID	Location	Details	
A	56m NE	Incident Date: 17/04/2003 Incident Identification: 151938 Pollutant: Specific Waste Materials Pollutant Description: Asbestos	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	56m NE	Incident Date: 17/04/2003 Incident Identification: 151938 Pollutant: Specific Waste Materials:Contaminated Water Pollutant Description: Asbestos:Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	56m NE	Incident Date: 17/04/2003 Incident Identification: 151938 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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



4.21 Pollution inventory radioactive waste

Records within 500m

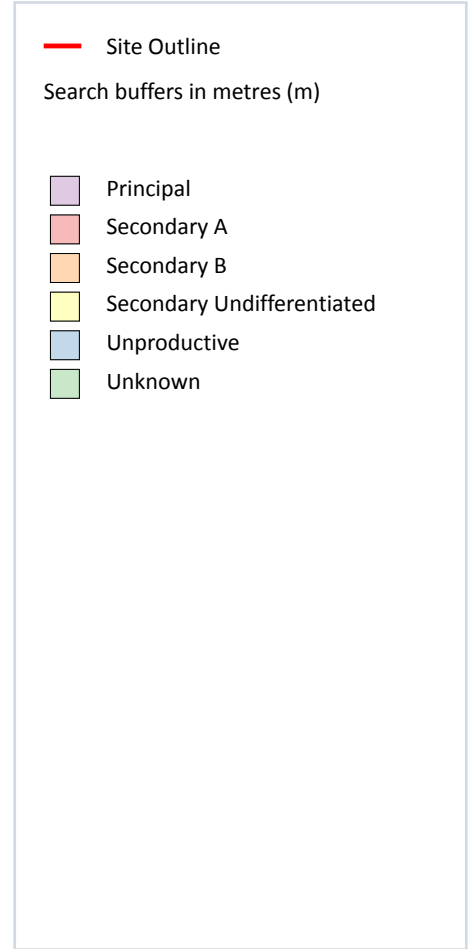
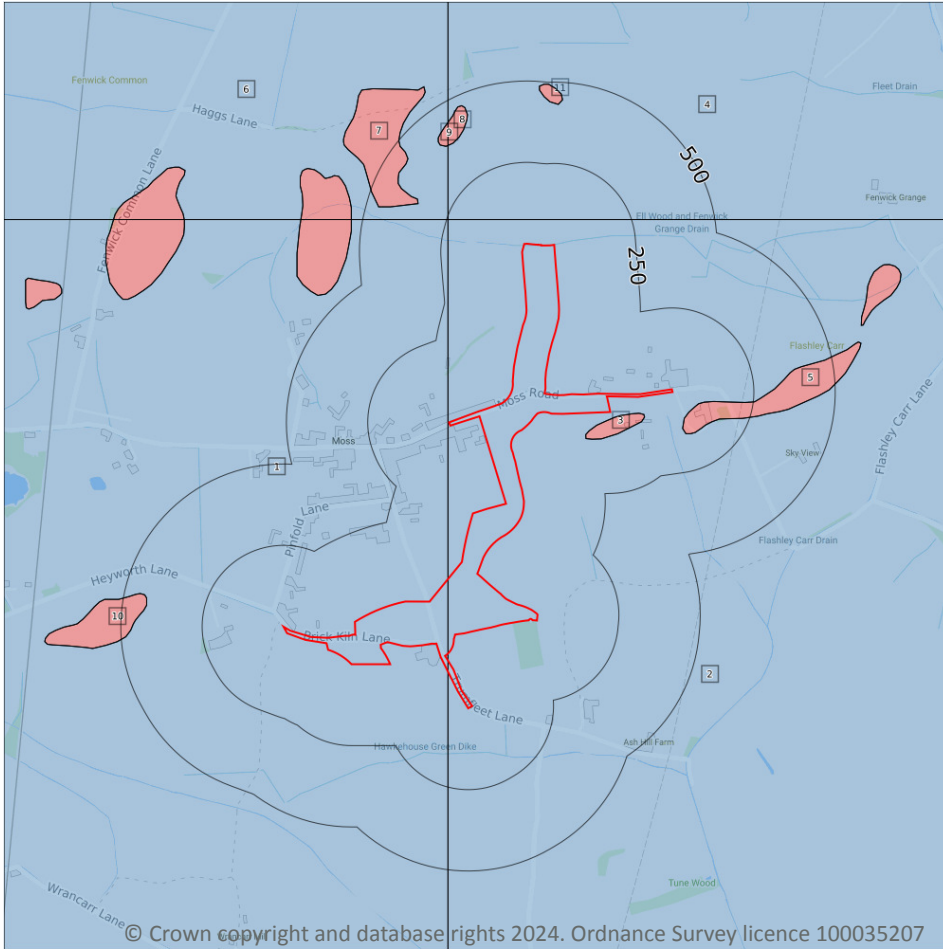
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

11

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 38](#) >

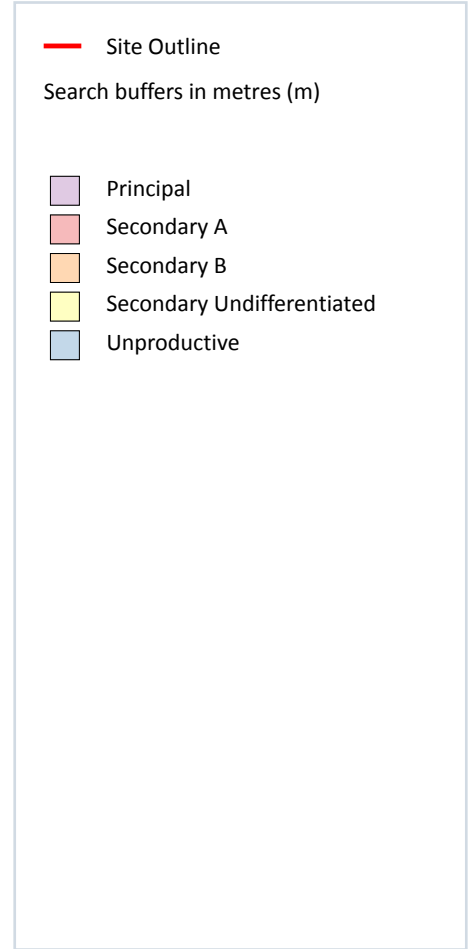
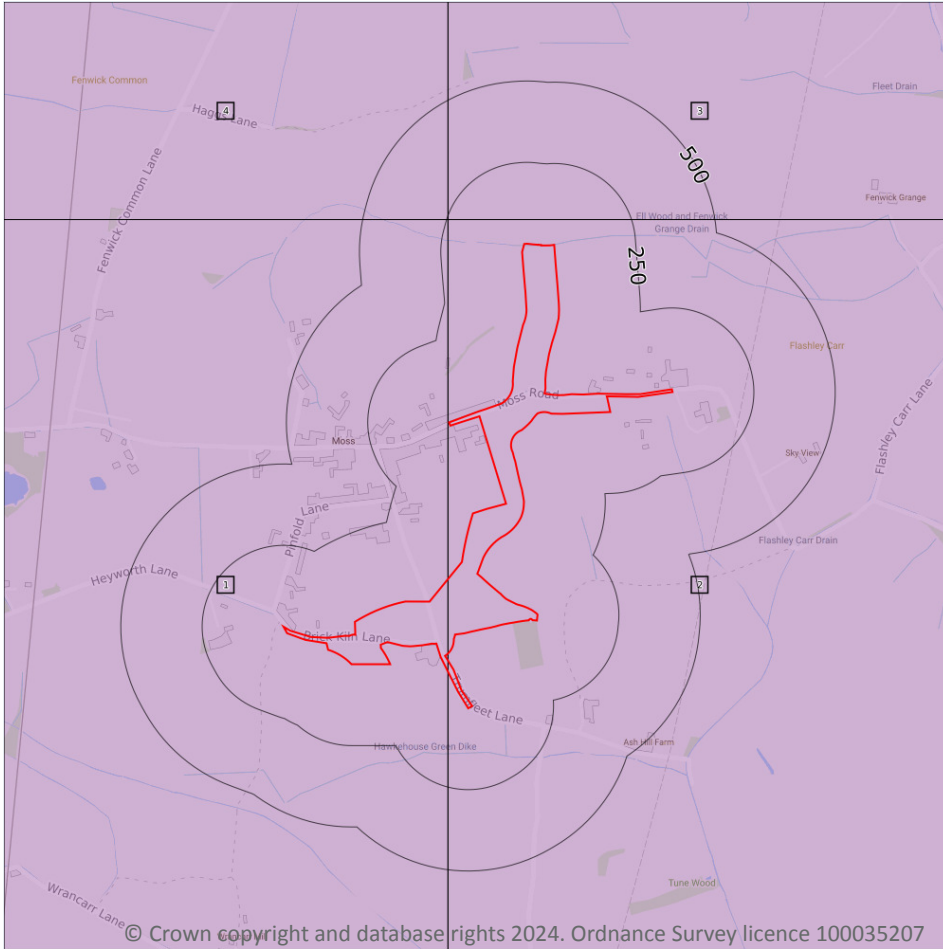
ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance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

ID	Location	Designation	Description
3	20m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	74m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	80m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	246m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
7	349m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
8	379m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
9	383m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
10	426m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
11	432m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

4

Aquifer status of groundwater held within bedrock geology.

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

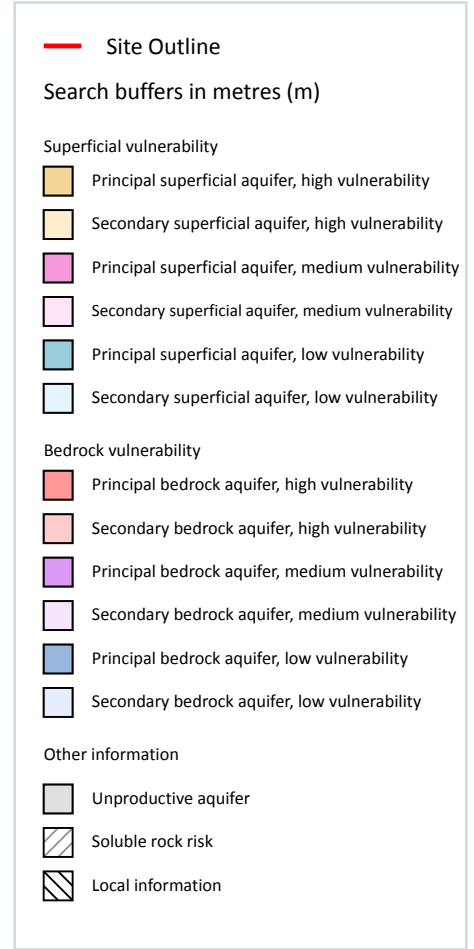
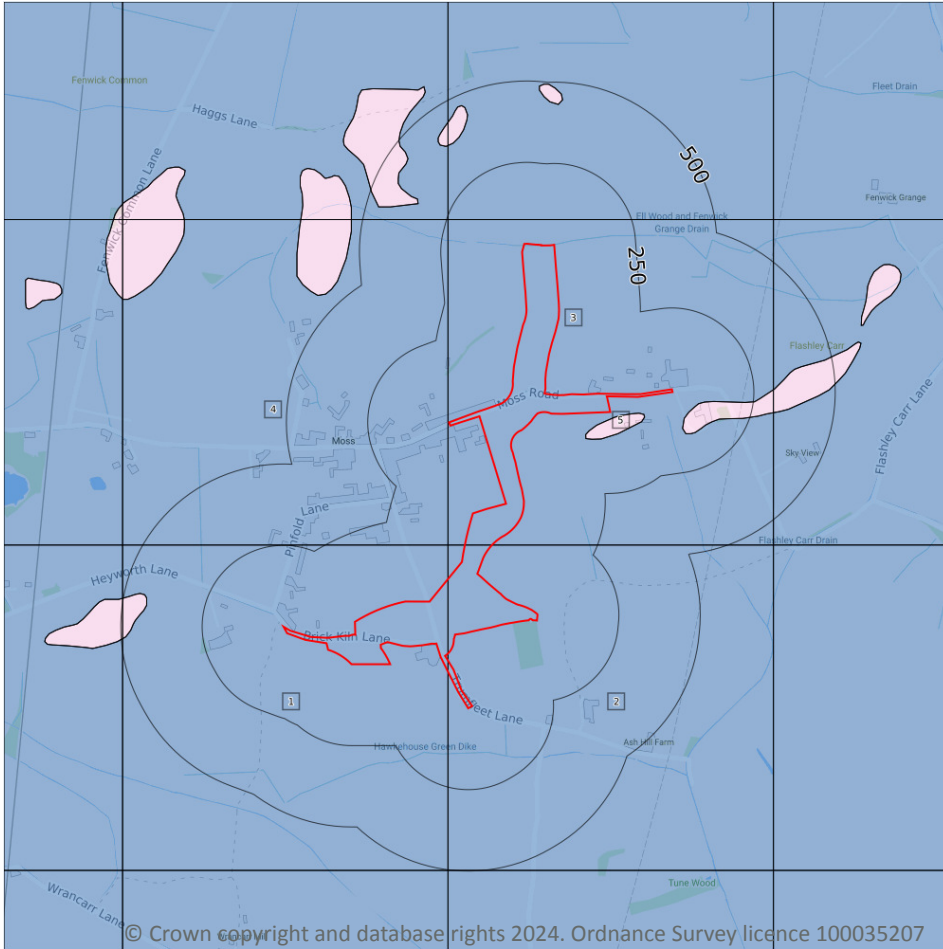
ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site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

ID	Location	Designation	Description
3	74m N	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	246m N	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

5

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 42 >](#)

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
2	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
3	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
4	3m NW	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
5	20m NE	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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



5.5 Groundwater vulnerability- local information

Records on site

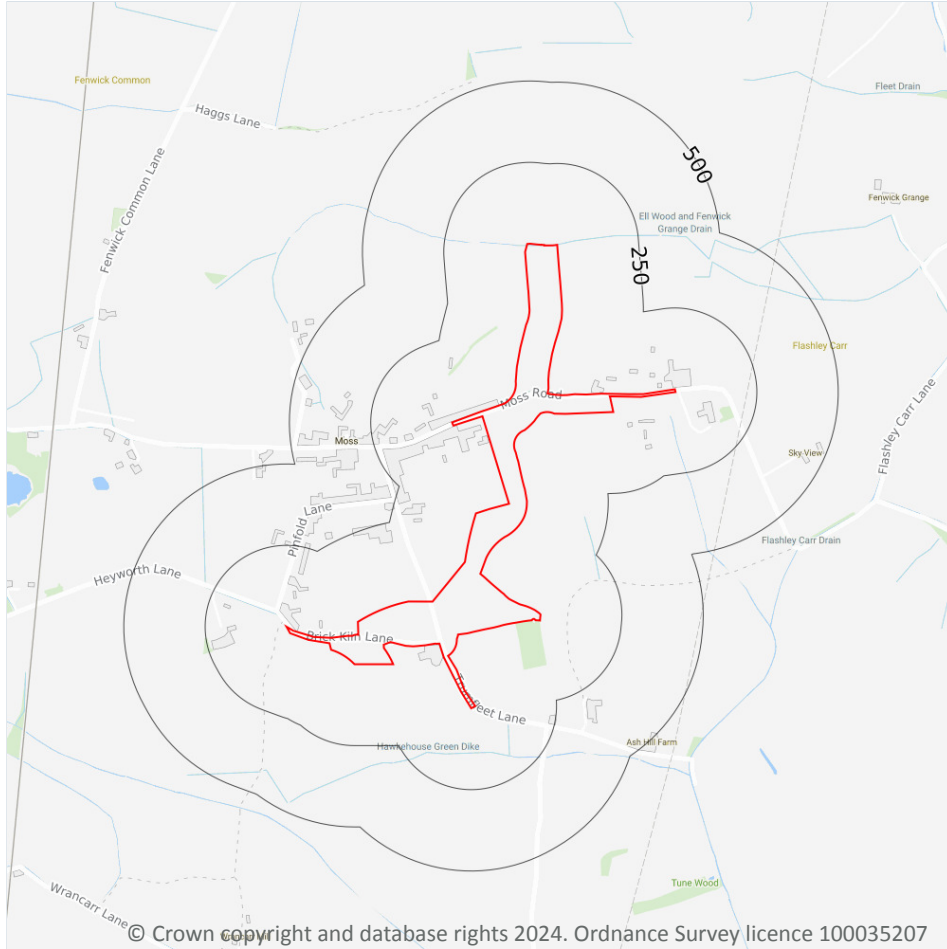
0

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

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



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

0

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

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

5.7 Surface water abstractions

Records within 2000m

6

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 45 >](#)

ID	Location	Details	
-	1153m SE	Status: Historical Licence No: 2/27/09/159 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: BRAITHWAITE DRAIN Data Type: Point Name: THOMAS Easting: 460900 Northing: 412700	Annual Volume (m ³): 2250 Max Daily Volume (m ³): 250 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/08/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
-	1357m S	Status: Historical Licence No: 2/27/09/159 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: WRANCARR DRAIN Data Type: Point Name: THOMAS Easting: 460700 Northing: 412300	Annual Volume (m ³): 2250 Max Daily Volume (m ³): 250 Original Application No: - Original Start Date: 27/03/1997 Expiry Date: 31/08/2006 Issue No: 100 Version Start Date: 27/03/1997 Version End Date: -
-	1914m S	Status: Historical Licence No: 2/27/09/174 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/10/1998 Expiry Date: 31/08/2002 Issue No: 100 Version Start Date: 21/10/1998 Version End Date: -
-	1914m S	Status: Historical Licence No: 2/27/09/188 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 24/03/2003 Expiry Date: 31/08/2009 Issue No: 1 Version Start Date: 24/03/2003 Version End Date: -



ID	Location	Details	
-	1914m S	Status: Historical Licence No: 2/27/09/210 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 01/06/2009 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 01/06/2009 Version End Date: -
-	1914m S	Status: Historical Licence No: 2/27/09/210/R01 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: ENGINE DRAIN Data Type: Point Name: LEONARD PASHLEY & SON Easting: 460690 Northing: 411690	Annual Volume (m ³): 33750 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 01/04/2017 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 01/04/2017 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

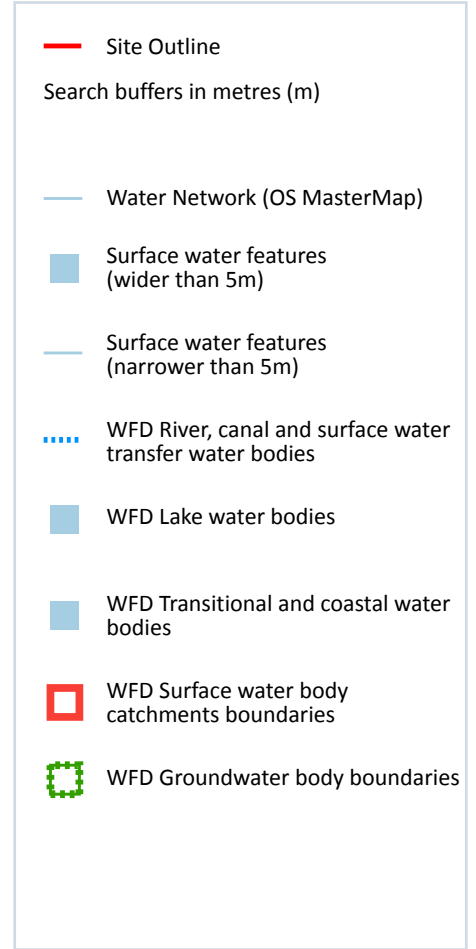
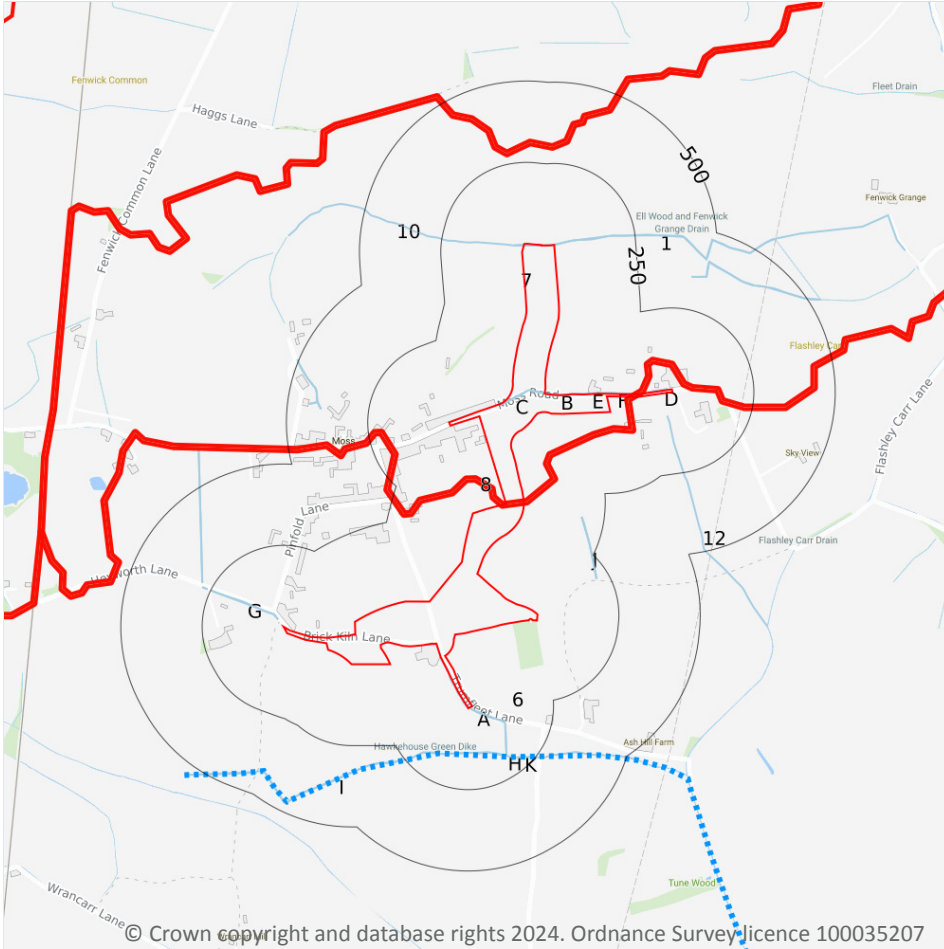
0

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



6.1 Water Network (OS MasterMap)

Records within 250m

25

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 48 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ell Wood and Fenwick Grange Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	1m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	1m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	1m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	1m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	1m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	1m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	2m NE	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
D	2m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	2m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	2m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	2m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	27m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	32m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ell Wood and Fenwick Grange Drain
12	70m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	136m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hawkehouse Green Dike
J	180m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	184m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hawkehouse Green Dike
K	185m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hawkehouse Green Dike

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

15

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 48 >](#)

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

2

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

Features are displayed on the Hydrology map on [page 48 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
6	On site	River	Bramwith Drain from Source to River Don	GB104027063290	Don Lower	Don and Rother
7	On site	River	Don from Mill Dyke to River Ouse	GB104027064243	Don Lower	Don and Rother

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

6.4 WFD Surface water bodies

Records identified

2

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

Features are displayed on the Hydrology map on [page 48 >](#)



ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
15	143m S	River	Bramwith Drain from Source to River Don	GB104027063290 ↗	Moderate	Fail	Moderate	2019
-	1615m NE	River	Don from Mill Dyke to River Ouse	GB104027064243 ↗	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
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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.

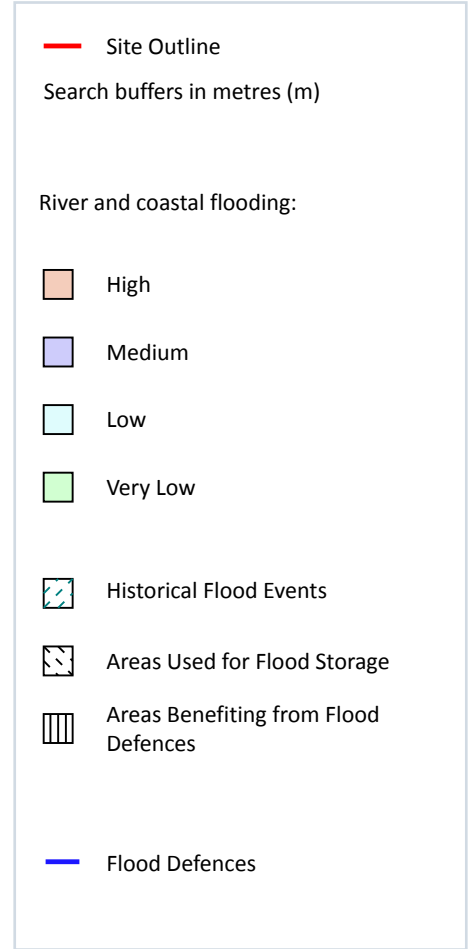
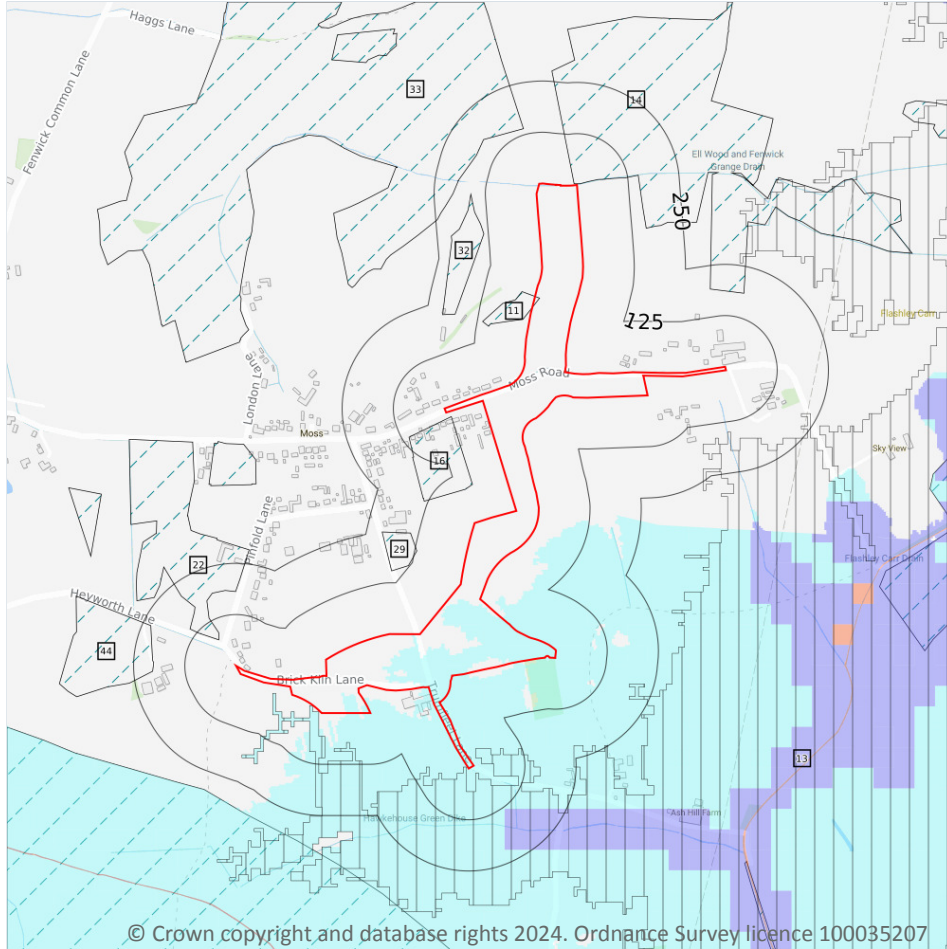
Features are displayed on the Hydrology map on [page 48](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
8	On site	Aire & Don Sherwood Sandstone.	GB40401G701000 ↗	Poor	Poor	Poor	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

20

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

Features are displayed on the River and coastal flooding map on [page 53](#) >

Distance	Flood risk category
On site	Low
0 - 50m	Low

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

7.2 Historical Flood Events

Records within 250m	8
----------------------------	----------

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.

Features are displayed on the River and coastal flooding map on [page 53 >](#)

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
11	On site	2020 February Flood Incident - Storm Dennis	2020-02-15 2020-03-19	Drainage	Local drainage/surface water	No data
14	3m N	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data
16	13m NW	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data
22	76m SW	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data
29	120m SW	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data
32	136m N	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data
33	140m N	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data
44	201m SW	June 2007 Surface Water Flooding Yorkshire	2007-06-15 2007-06-25	Other	Unknown	No data

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

1

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.

Features are displayed on the River and coastal flooding map on [page 53](#) >

ID	Location	
13	1m SW	Area benefiting from flood defences

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

7.5 Flood Storage Areas

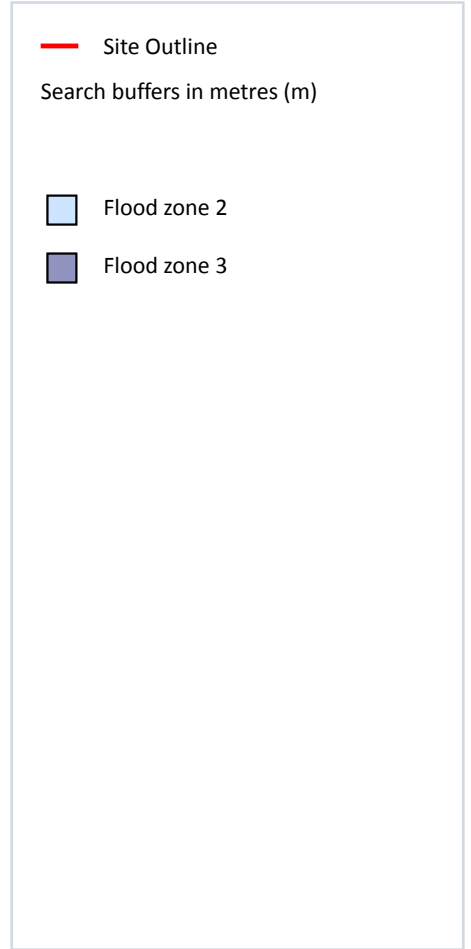
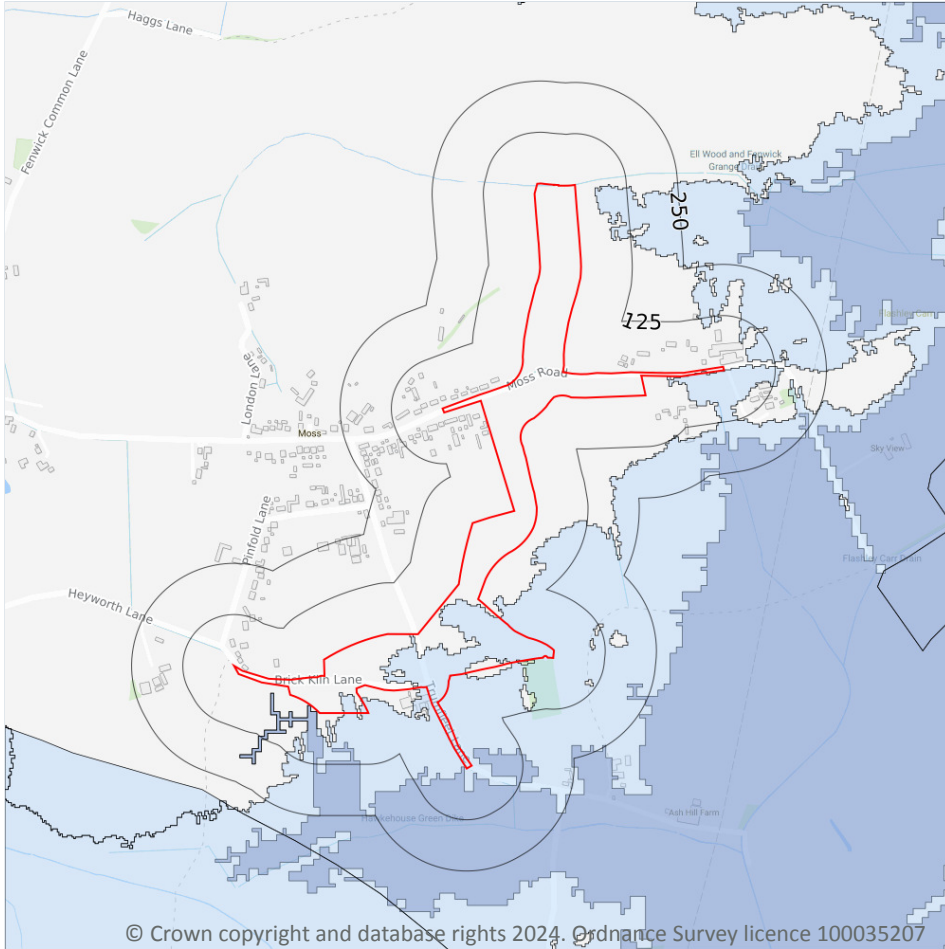
Records within 250m

0

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

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

River and coastal flooding - Flood Zones



7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 53](#) >

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

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

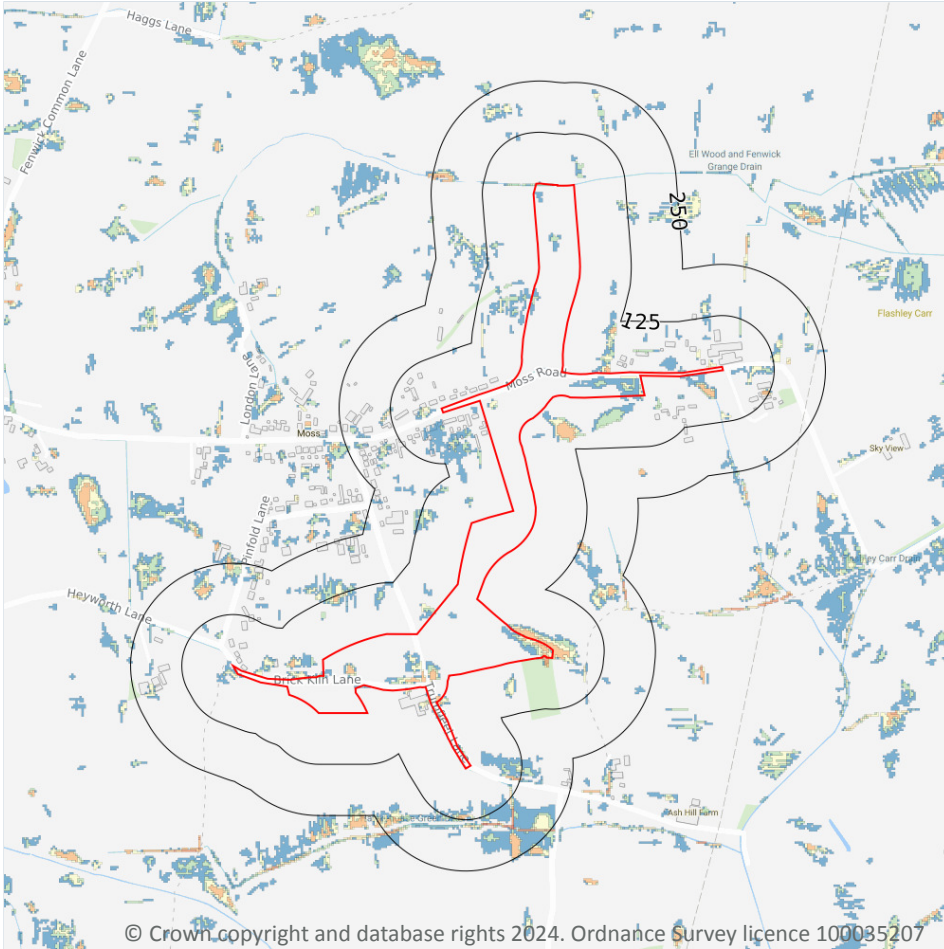
Features are displayed on the River and coastal flooding map on [page 53 >](#)

Location	Type
1m SW	Zone 3 - (Fluvial Models)

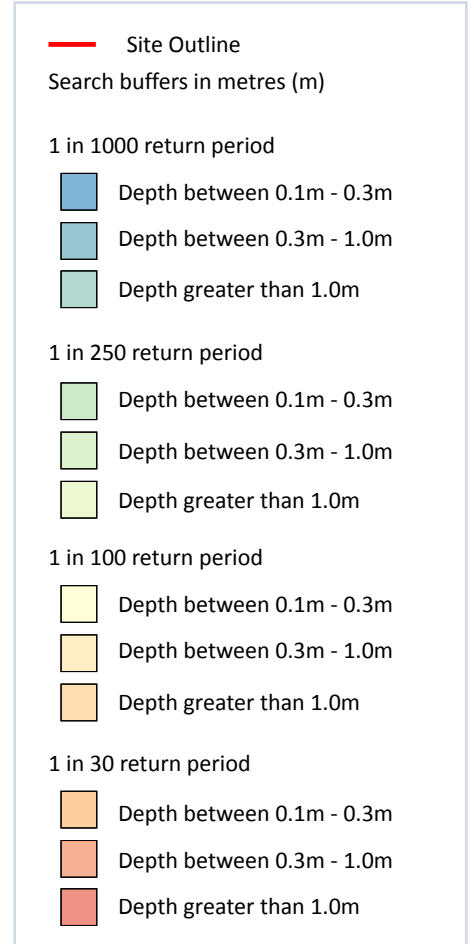
This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



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8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on [page 58 >](#)

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

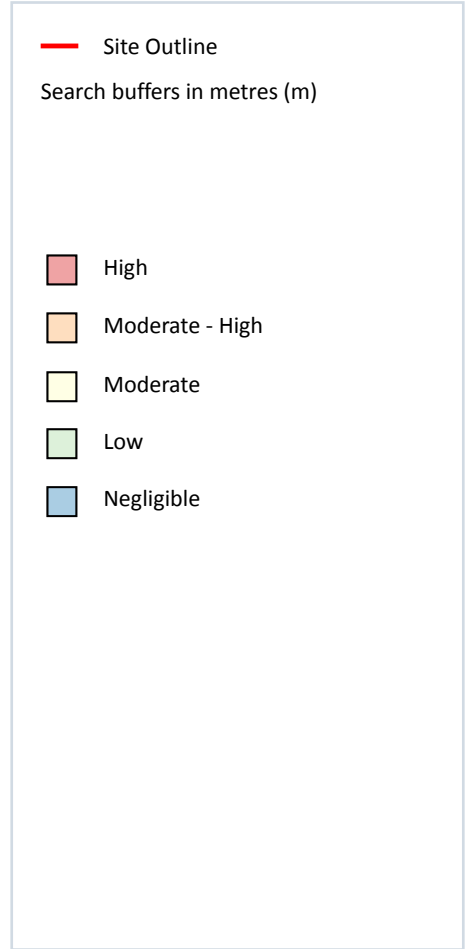
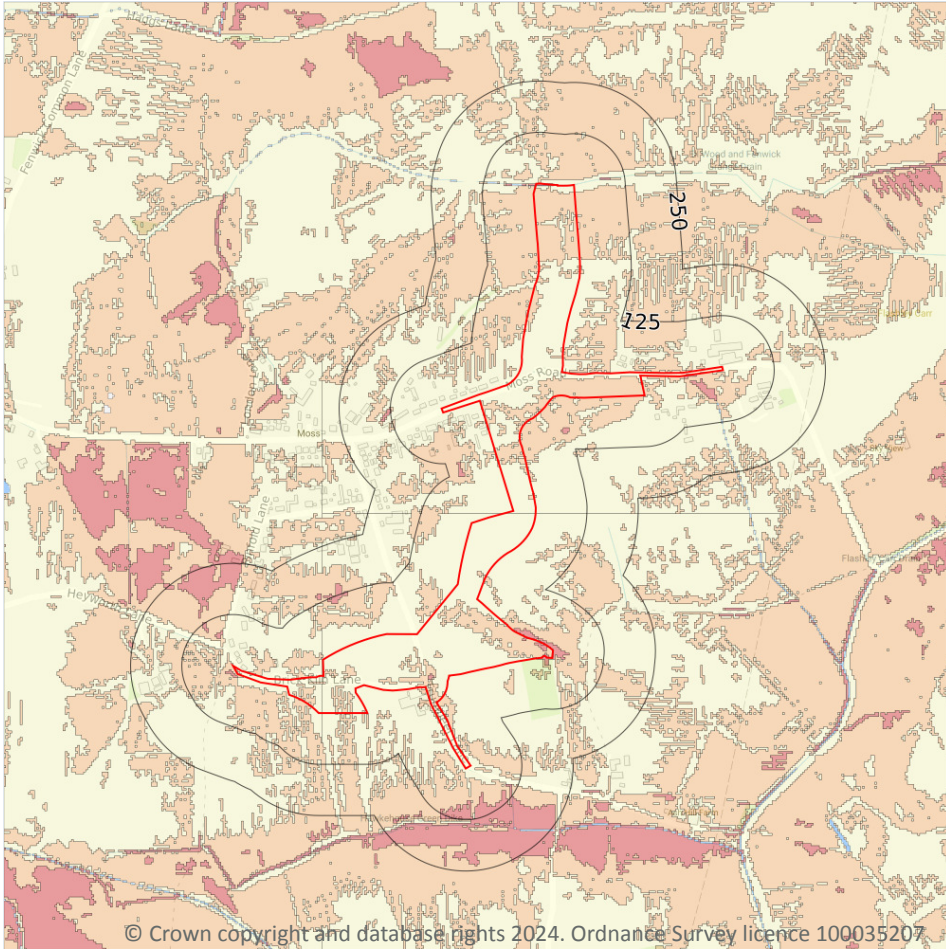
The table below shows the maximum flood depths for a range of return periods for the site.

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

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

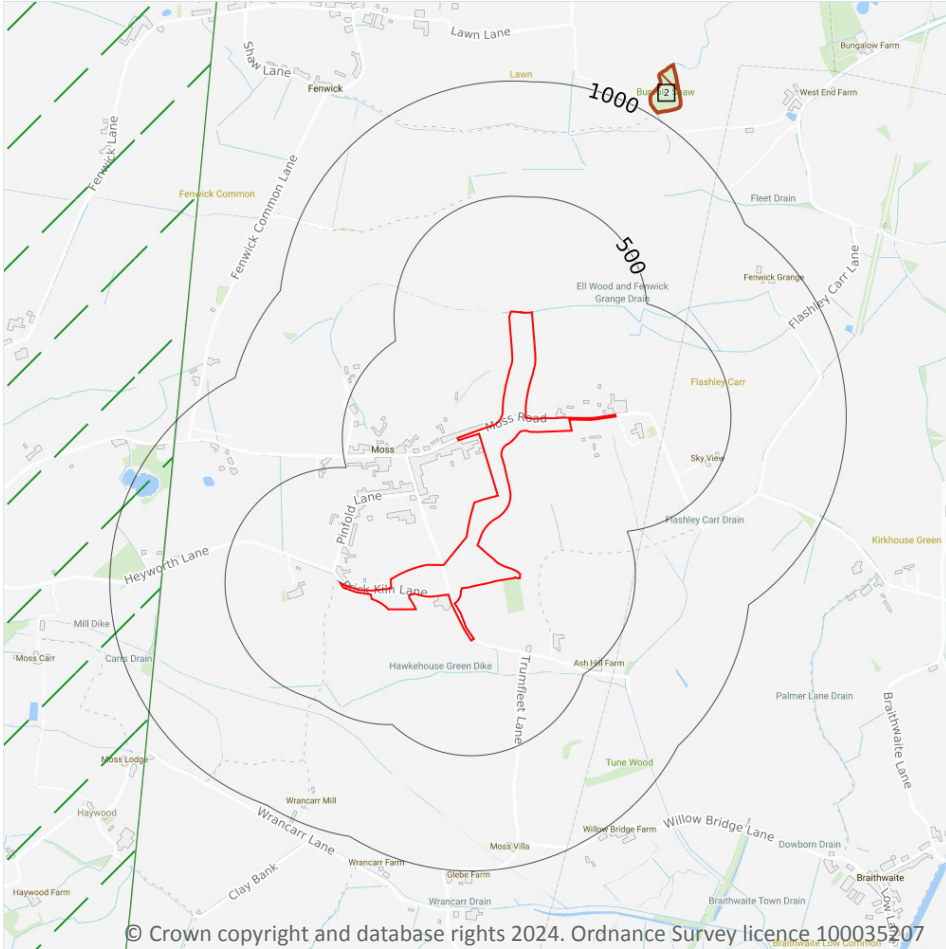
High

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

Features are displayed on the Groundwater flooding map on [page 60 >](#)

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

1

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

Features are displayed on the Environmental designations map on [page 61 >](#)

ID	Location	Name	Woodland Type
2	1023m NE	Bunfold Shaw	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

1

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

Features are displayed on the Environmental designations map on [page 61](#) >

ID	Location	Name	Local Authority name
1	775m W	South and West Yorkshire	Doncaster

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

5

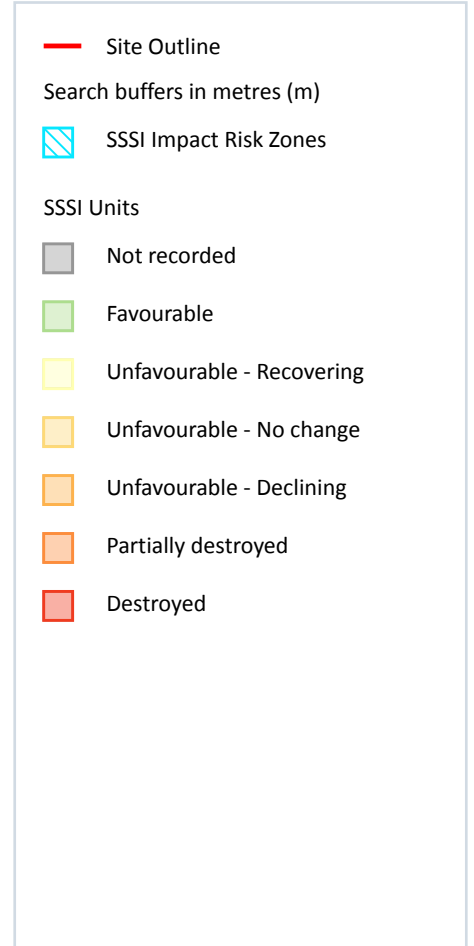
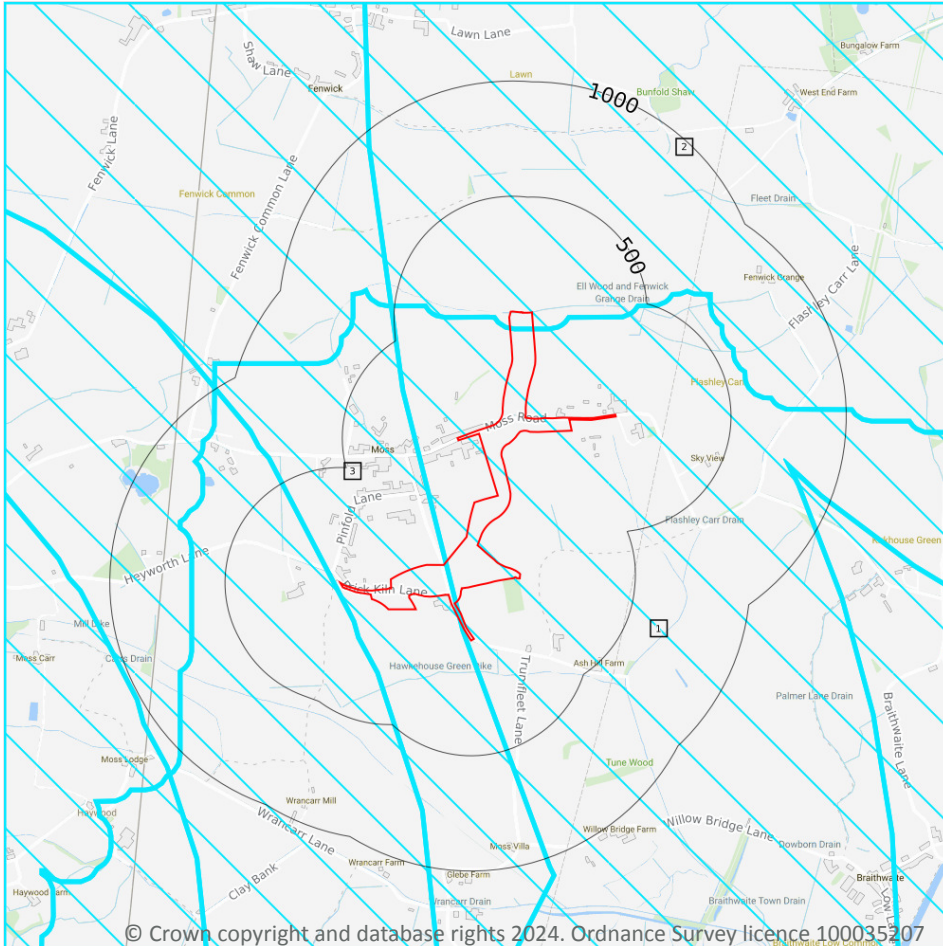
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	Bramwith Drain from Source to River Don NVZ	Surface Water	280	Existing
On site	Went from Blowell Drain to the River Don NVZ	Surface Water	299	Existing
1056m N	Went from Blowell Drain to the River Don NVZ	Surface Water	299	Existing
1592m S	LOWER DON NVZ	Surface Water	298	Existing
1618m SW	Ea Beck from Abbess Dyke to River Don NVZ	Surface Water	279	Existing

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



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

3

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 66](#) >

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p>
2	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>
3	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

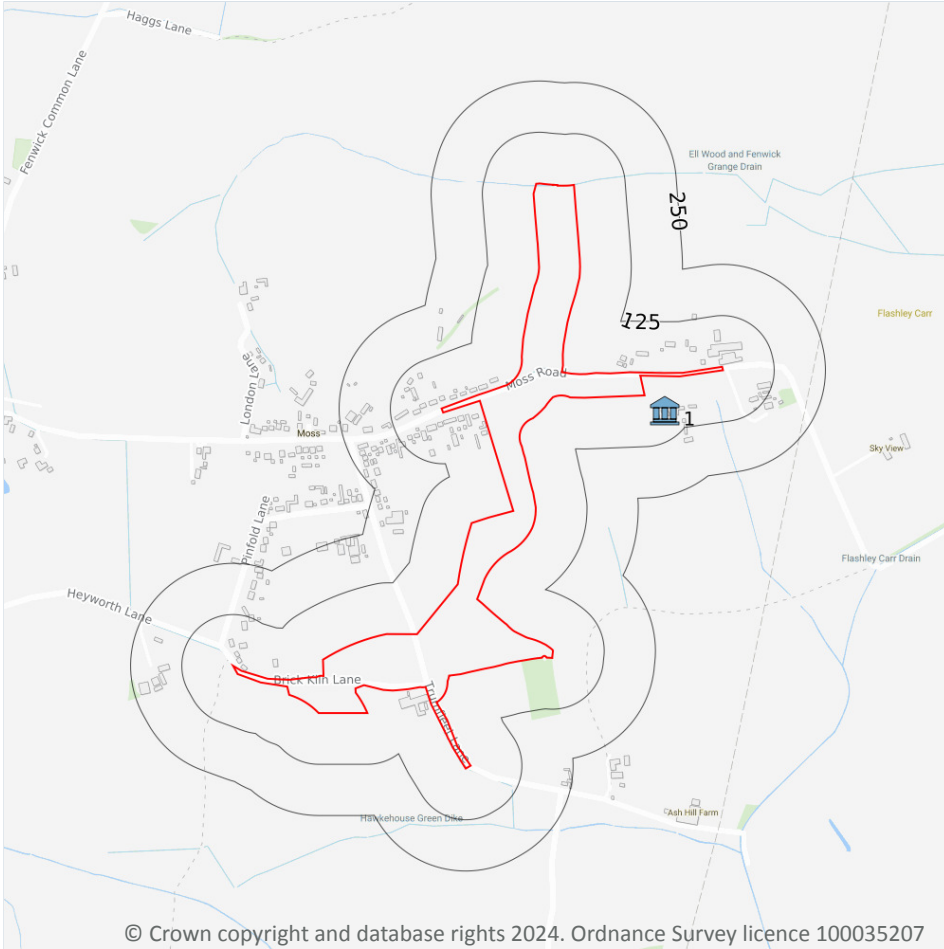
0

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.

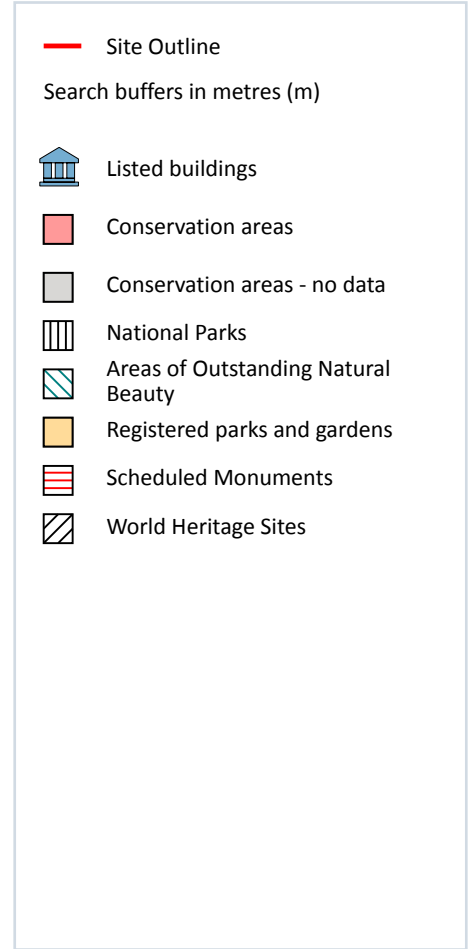
This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations



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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

1

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

Features are displayed on the Visual and cultural designations map on [page 68 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	61m NE	Barn Approximately 30 Metres To West Of Ponderosa Farmhouse	II	1151595	29/09/1987

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

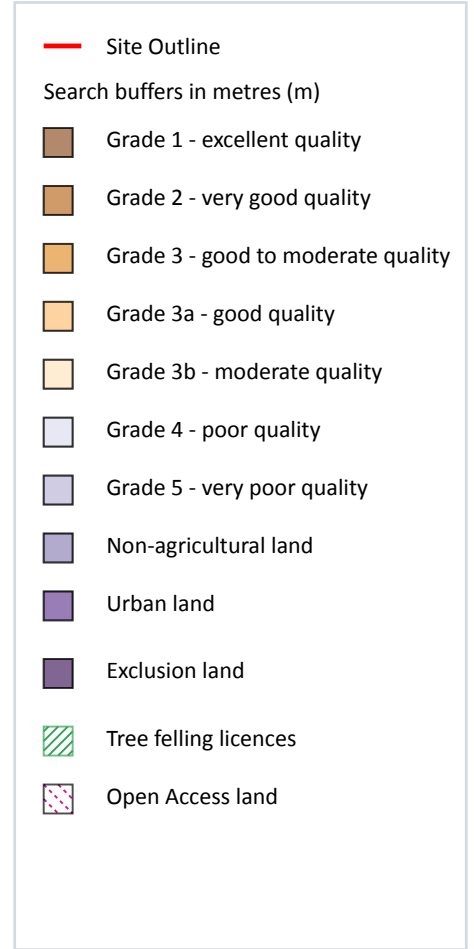
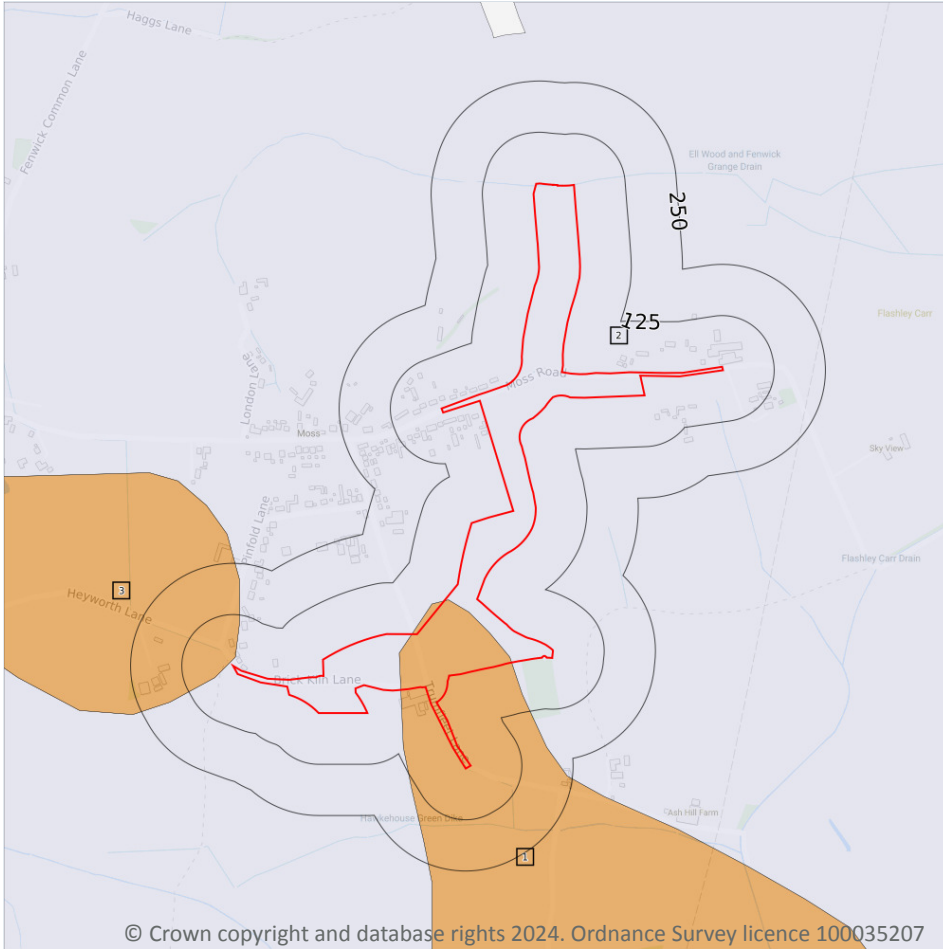
0

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



12.1 Agricultural Land Classification

Records within 250m **3**

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 71](#) >

ID	Location	Classification	Description
1	On site	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.

ID	Location	Classification	Description
2	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
3	11m 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

1

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.

Location	Reference	Scheme	Start Date	End date
239m S	AG00571191	Entry Level plus Higher Level Stewardship	01/10/2014	30/09/2024

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m**4**

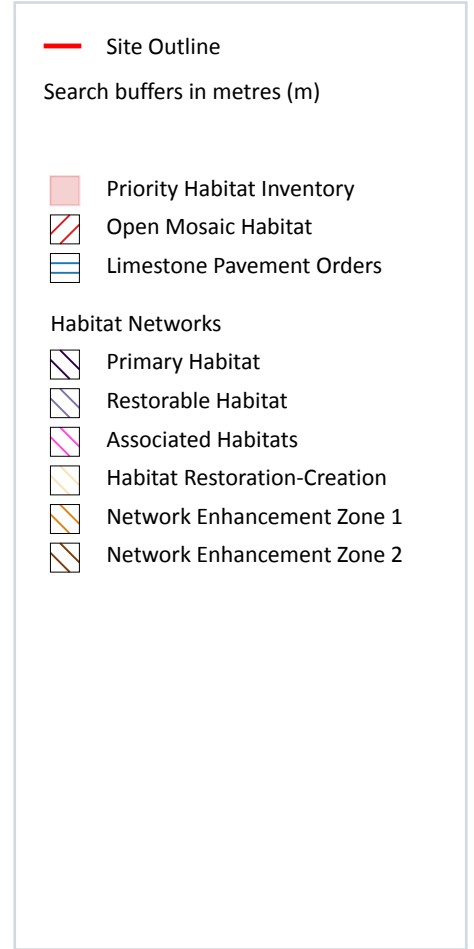
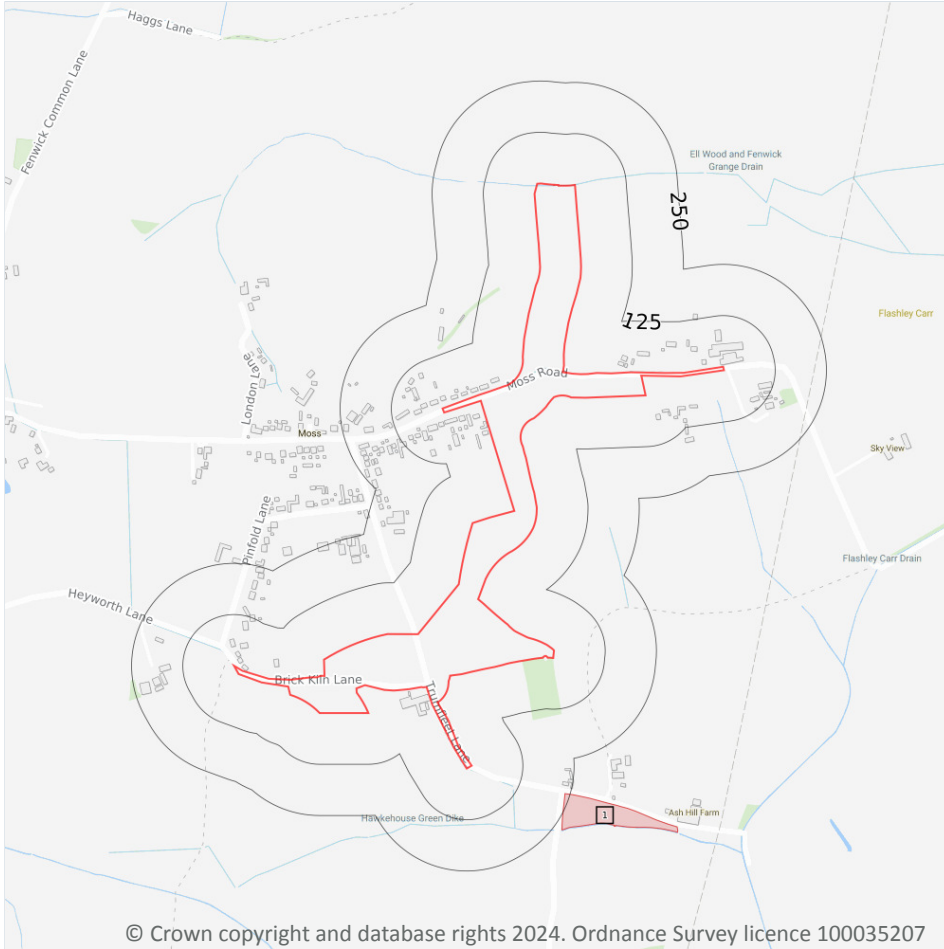
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
On site	1268130	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026
0m SE	1268130	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026
87m SE	1268130	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026
138m S	1268130	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

1

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

Features are displayed on the Habitat designations map on [page 74 >](#)

ID	Location	Main Habitat	Other habitats
1	238m S	Good quality semi-improved grassland	Main habitat: GQSIG (FEP + HLS)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

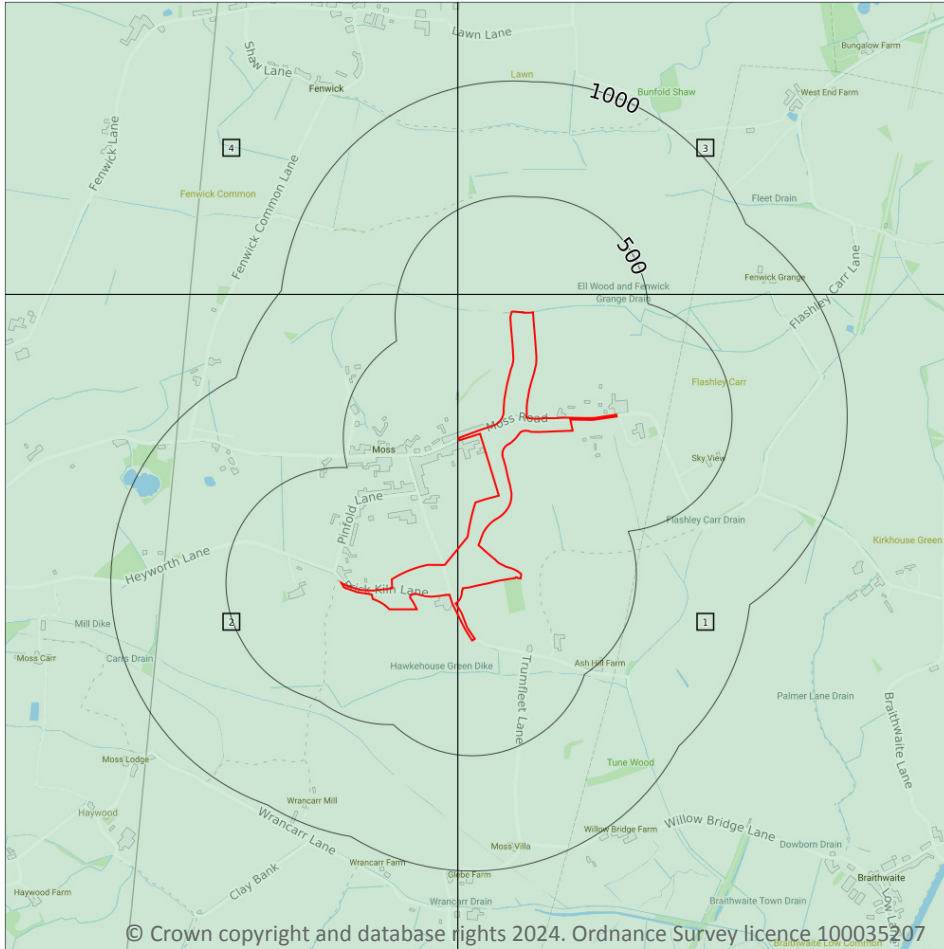
0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

4

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 76](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SE61SW
2	On site	No coverage	Full	Full	No coverage	SE51SE
3	74m N	No coverage	Full	Full	No coverage	SE61NW
4	246m N	No coverage	Full	Full	No coverage	SE51NE



This data is sourced from the British Geological Survey.



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

14.2 Artificial and made ground (10k)

Records within 500m

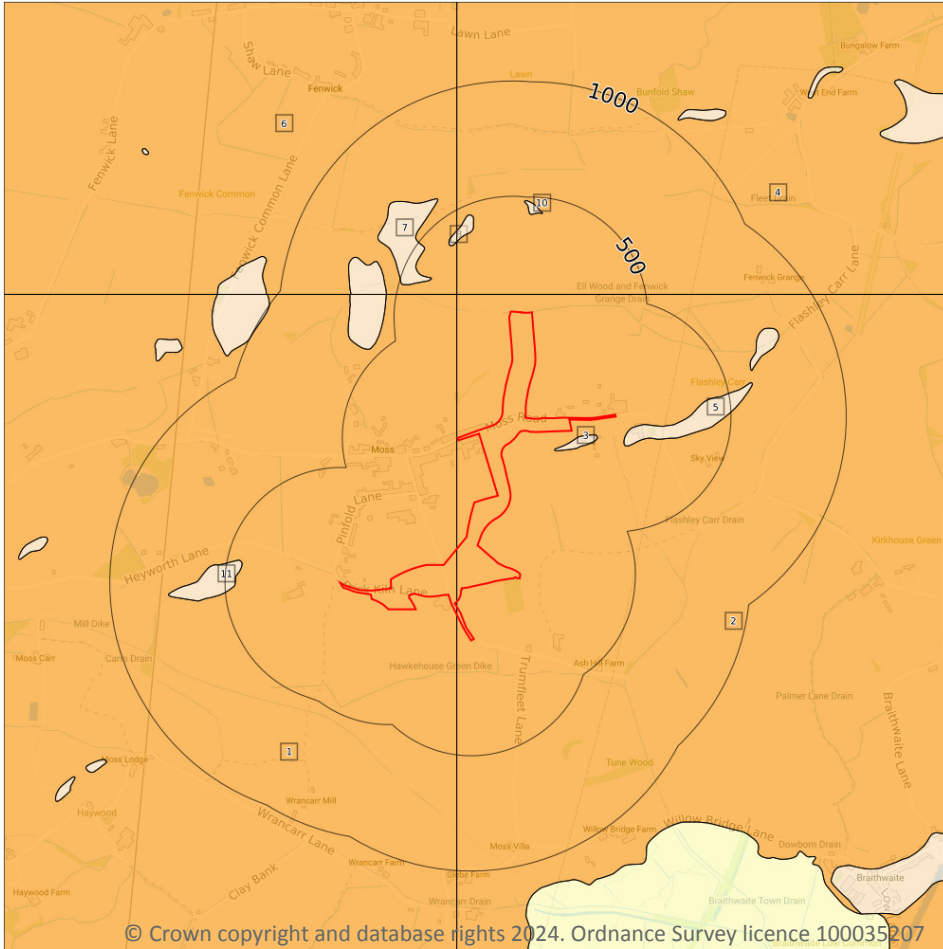
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



- 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

11

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 79](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
2	On site	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
3	39m NE	BREI-S	Brighton Sand Formation - Sand	Sand
4	74m N	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty



ID	Location	LEX Code	Description	Rock description
5	83m E	BREI-S	Breighton Sand Formation - Sand	Sand
6	246m N	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
7	373m N	BREI-S	Breighton Sand Formation - Sand	Sand
8	382m N	BREI-S	Breighton Sand Formation - Sand	Sand
9	383m N	BREI-S	Breighton Sand Formation - Sand	Sand
10	425m N	BREI-S	Breighton Sand Formation - Sand	Sand
11	434m W	BREI-S	Breighton Sand Formation - Sand	Sand

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

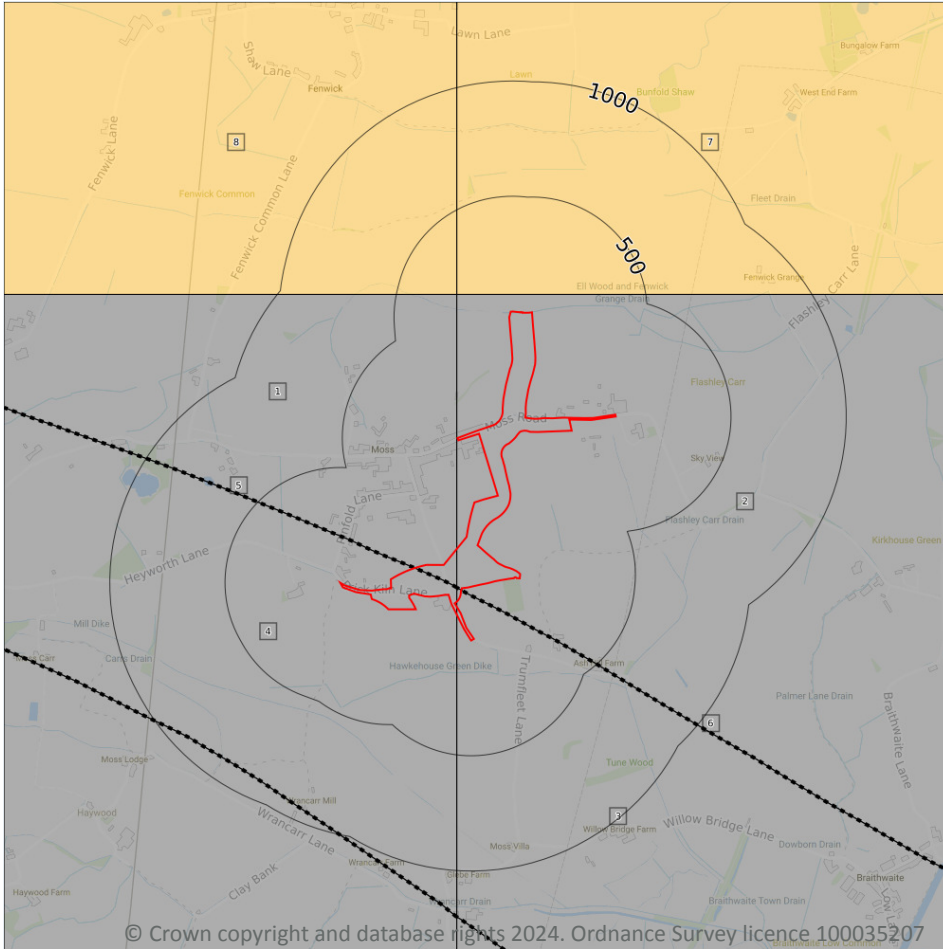
0

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

6

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 81](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
2	On site	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
3	On site	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch
4	On site	NTC-SDST	Nottingham Castle Sandstone Formation - Sandstone	Early Triassic Epoch

ID	Location	LEX Code	Description	Rock age
7	74m N	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]
8	246m N	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

2

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.

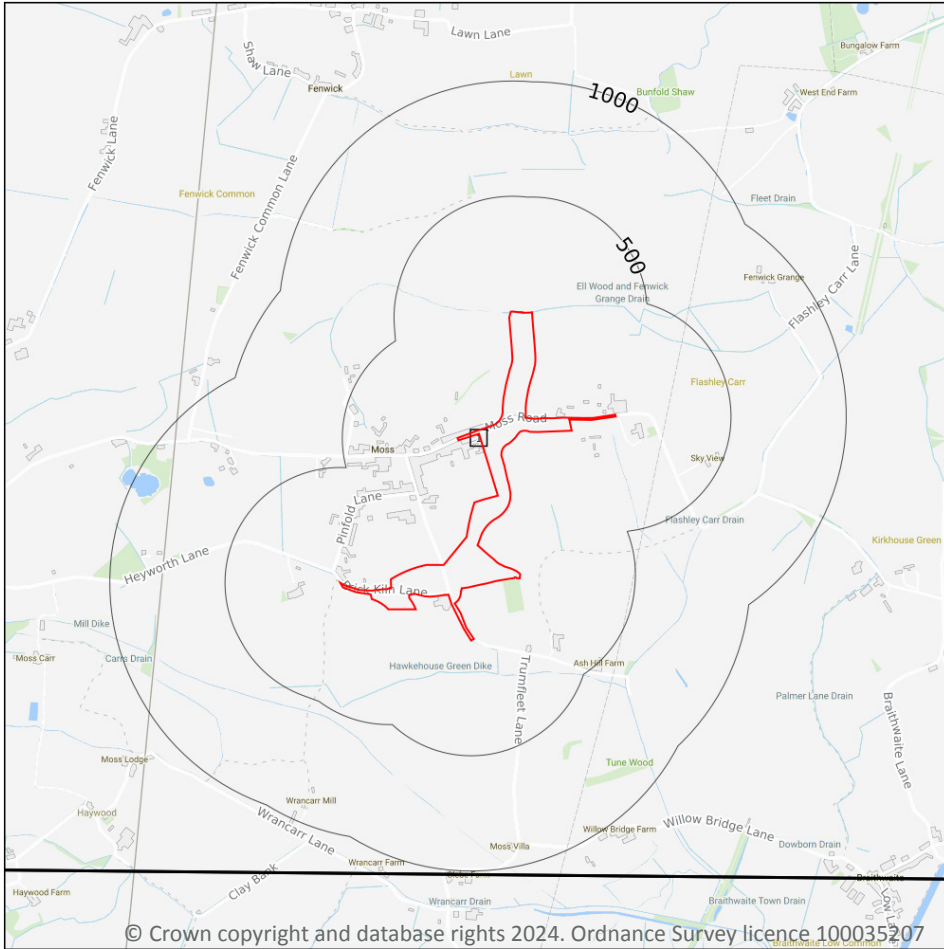
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 81](#) >

ID	Location	Category	Description
5	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
6	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

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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 83](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW079_goole_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

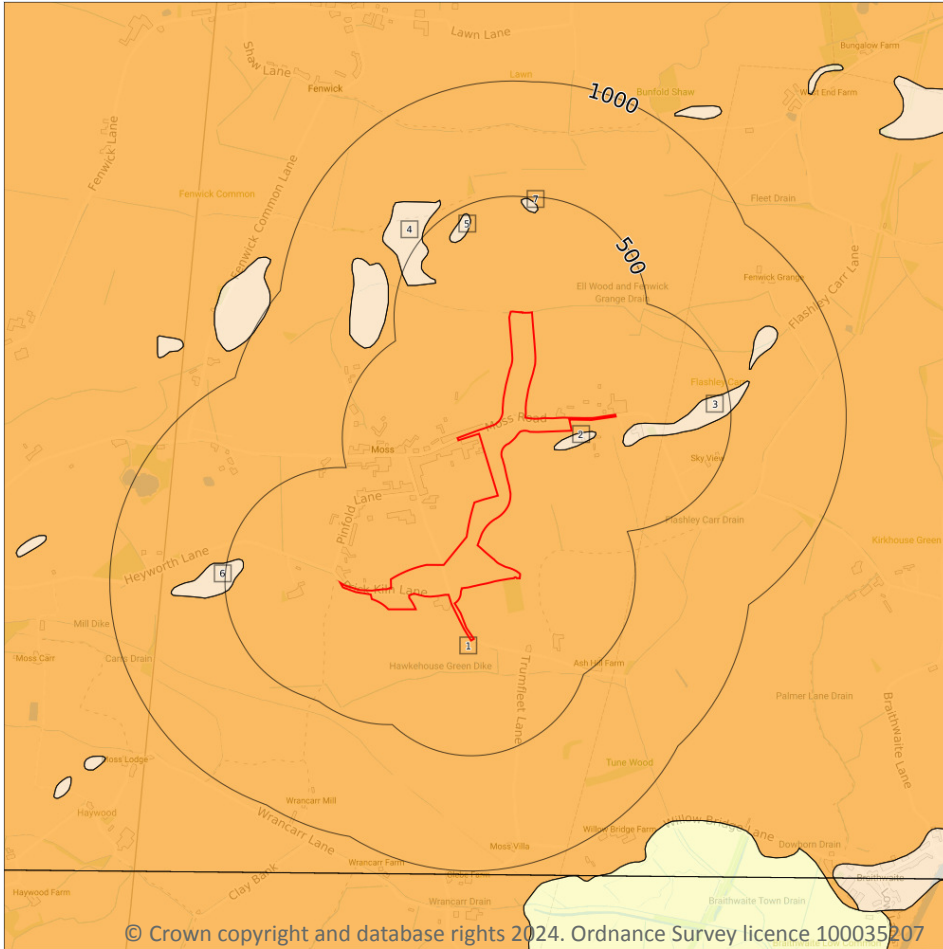
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



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

15.4 Superficial geology (50k)

Records within 500m

7

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 85](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	HEM-CZ	HEMINGBROUGH GLACIOLACUSTRINE FORMATION	CLAY, SILTY
2	20m NE	BREI-S	BREIGHTON SAND FORMATION	SAND
3	80m NE	BREI-S	BREIGHTON SAND FORMATION	SAND
4	349m N	BREI-S	BREIGHTON SAND FORMATION	SAND



ID	Location	LEX Code	Description	Rock description
5	379m N	BREI-S	BREIGHTON SAND FORMATION	SAND
6	426m W	BREI-S	BREIGHTON SAND FORMATION	SAND
7	432m N	BREI-S	BREIGHTON SAND FORMATION	SAND

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

3

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Low	Very Low
On site	Mixed	Low	Very Low
20m NE	Intergranular	High	High

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

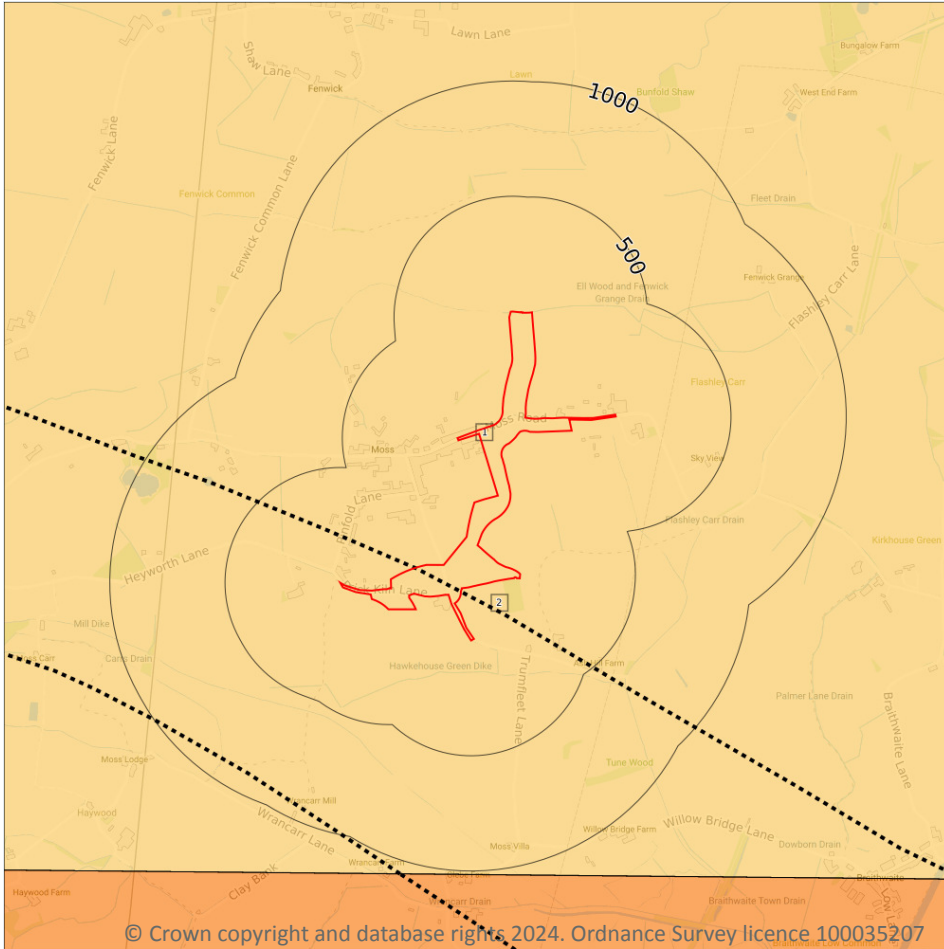
0

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

1

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 87](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	SSG-SDST	SHERWOOD SANDSTONE GROUP - SANDSTONE	-

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	Mixed	High	High
On site	Mixed	High	High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

1

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

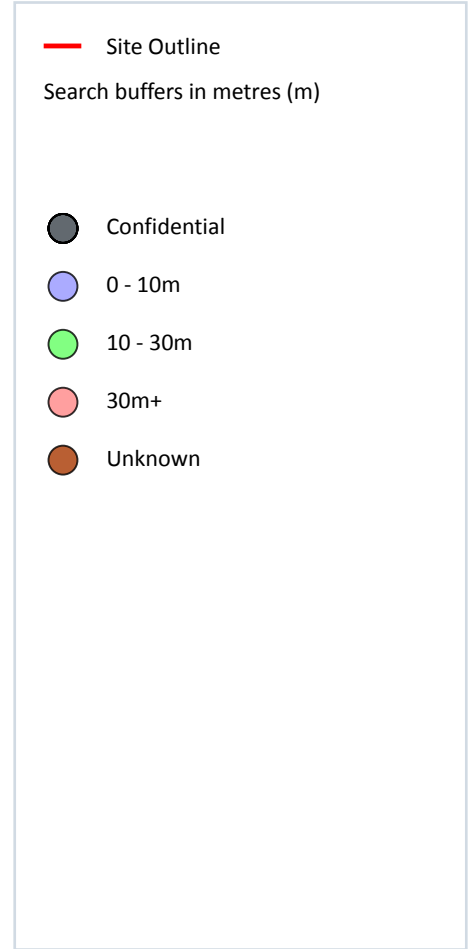
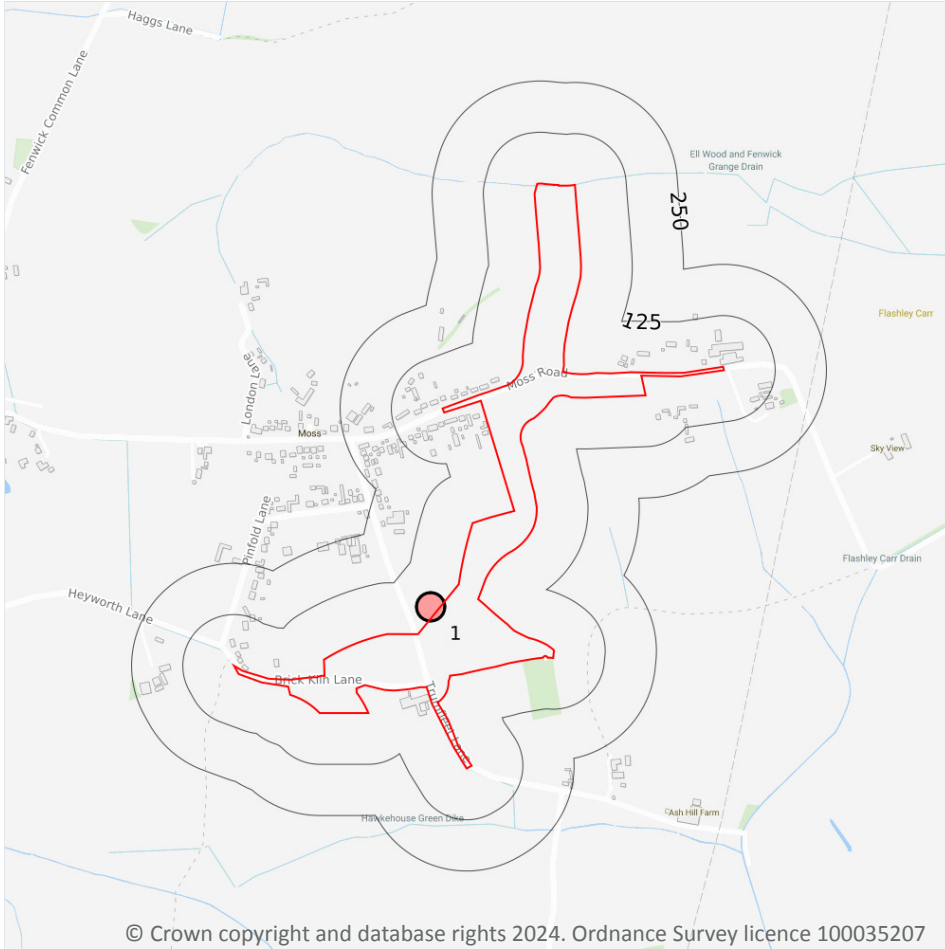
Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 87 >](#)

ID	Location	Category	Description
2	On site	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



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16.1 BGS Boreholes

Records within 250m

1

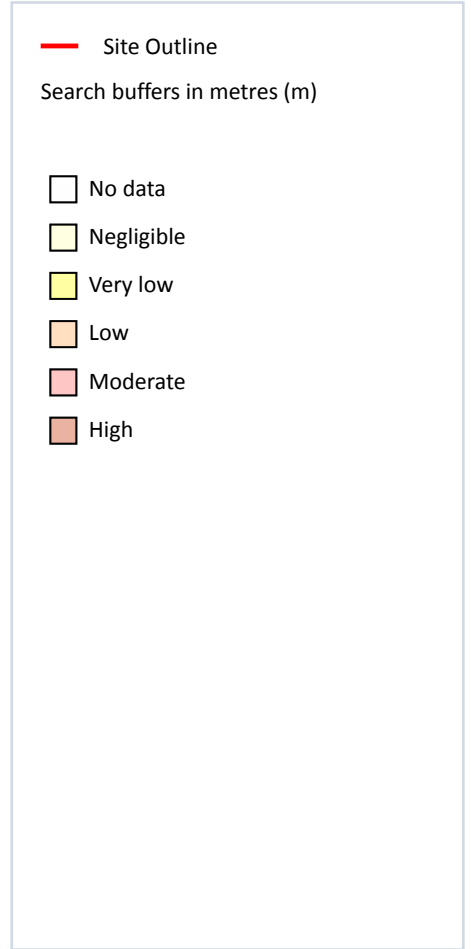
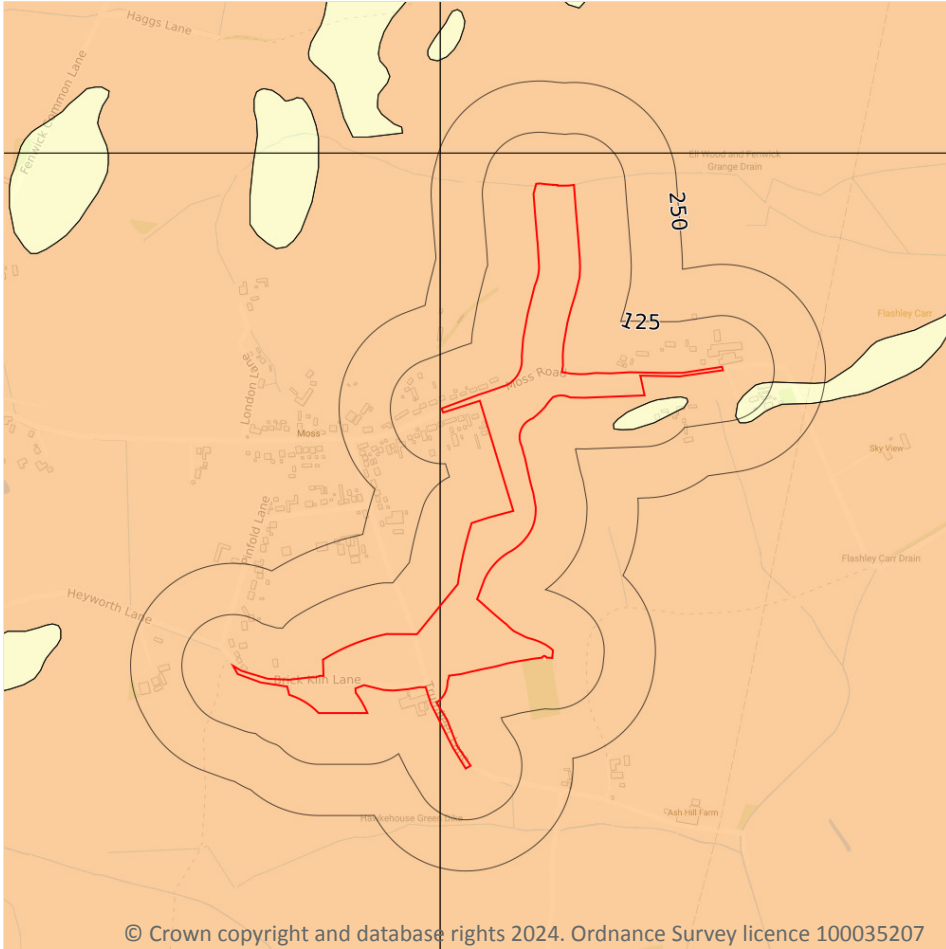
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several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

Features are displayed on the Boreholes map on [page 89](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	18m SW	459974 413892	MOSS	1098.33	N	116558 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



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17.1 Shrink swell clays

Records within 50m

2

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

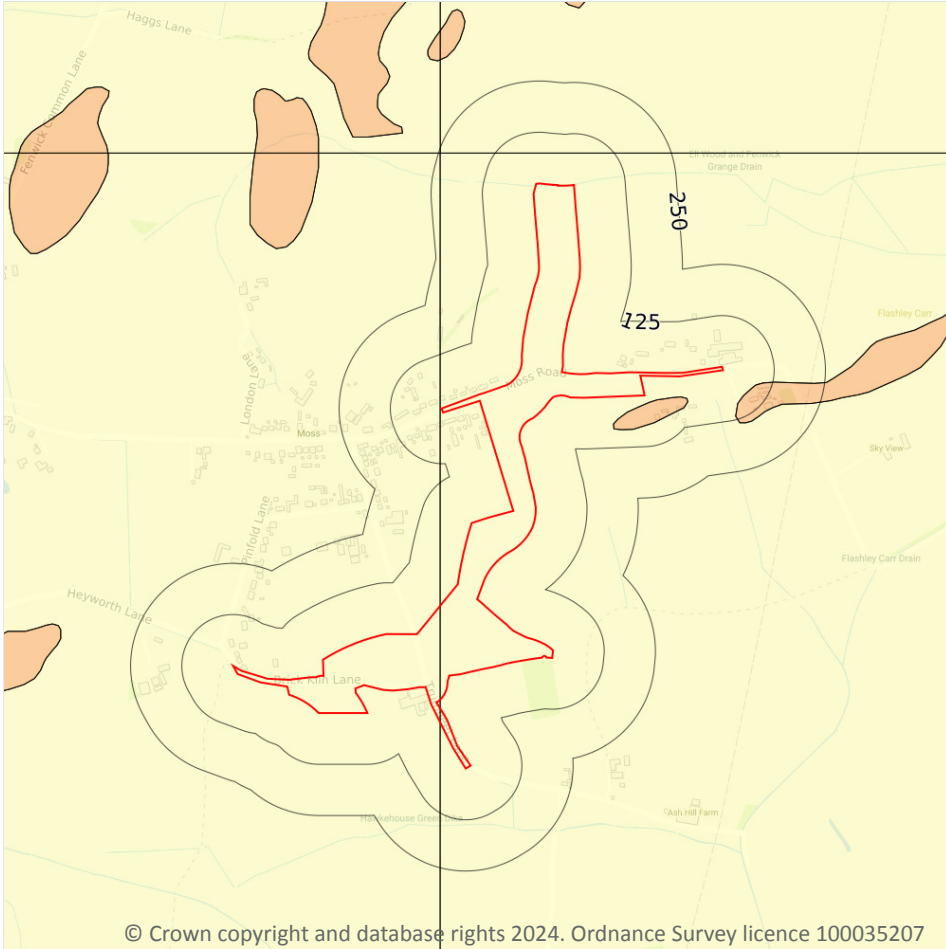
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 90 >](#)

Location	Hazard rating	Details
On site	Low	Ground conditions predominantly medium plasticity.
20m NE	Negligible	Ground conditions predominantly non-plastic.

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

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17.2 Running sands

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 91](#) >

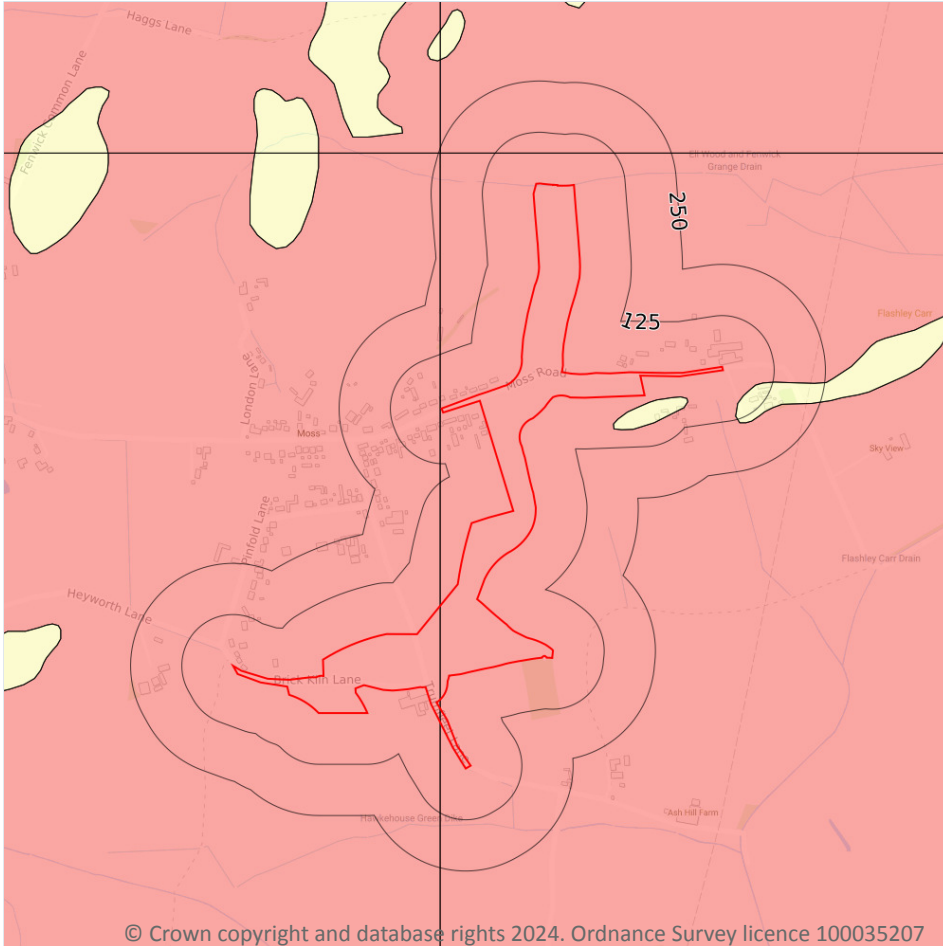
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
20m NE	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

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17.3 Compressible deposits

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 93](#) >

Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
20m NE	Negligible	Compressible strata are not thought to occur.



This data is sourced from the British Geological Survey.



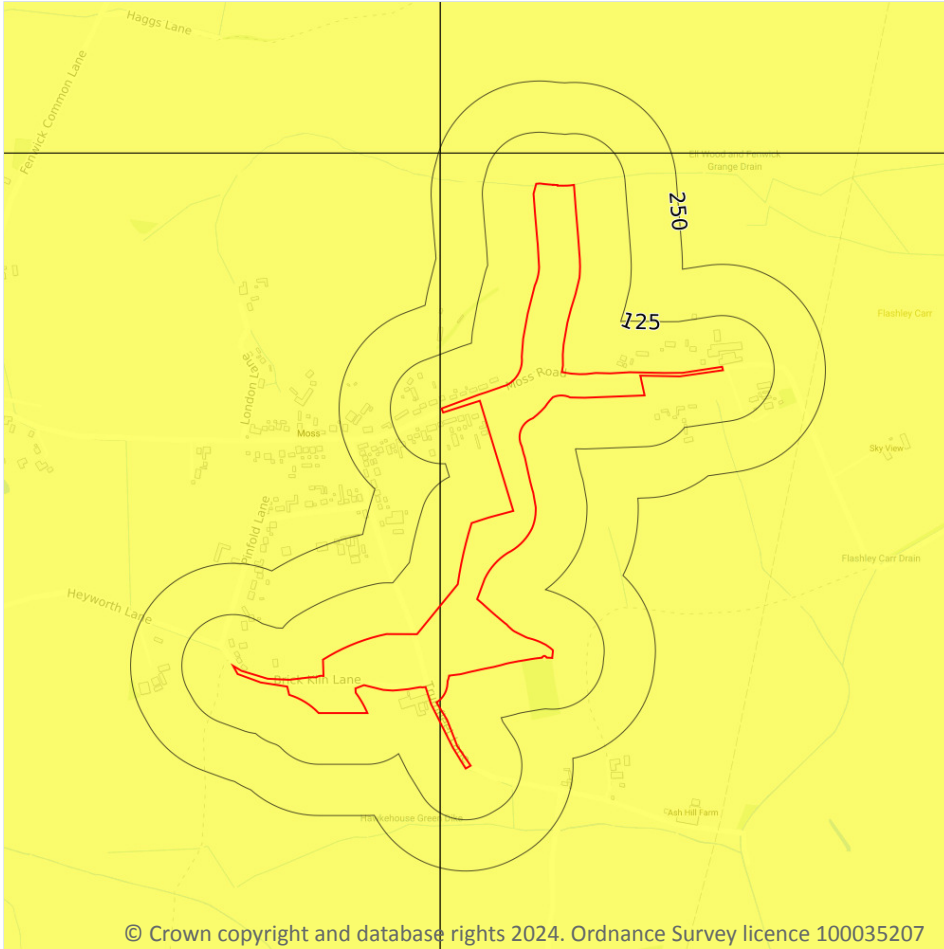
Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 12 January 2024

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

1

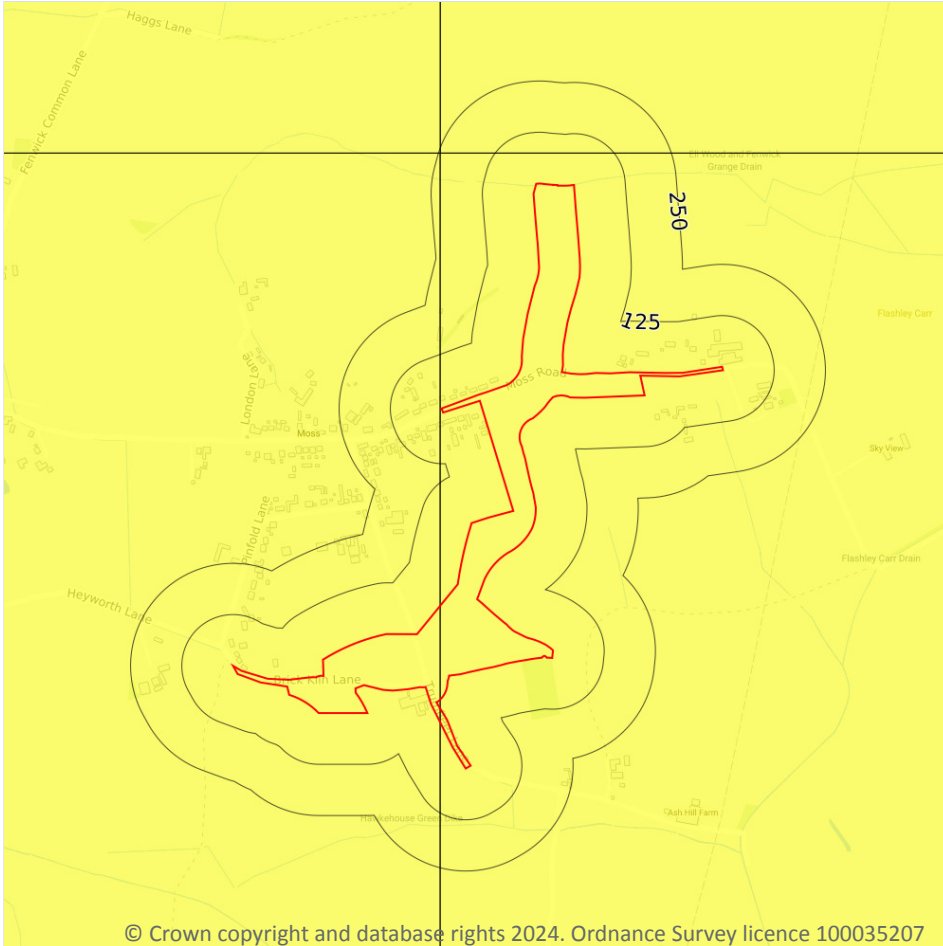
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 95 >](#)

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

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17.5 Landslides

Records within 50m

1

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

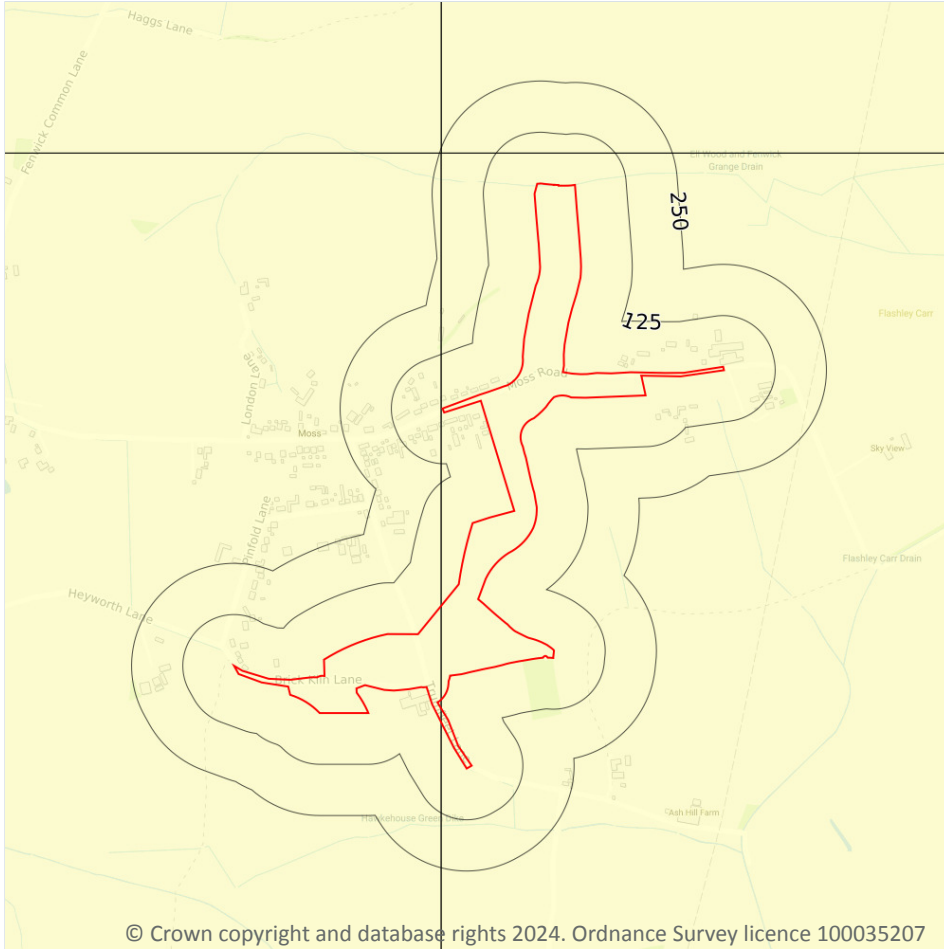
Features are displayed on the Natural ground subsidence - Landslides map on [page 96 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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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 97](#)

>

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.



Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 12 January 2024

18 Mining and ground workings

18.1 BritPits

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

0

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.

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

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

This data is sourced from Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

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

This data is sourced from The Coal Authority.



18.9 Researched mining

Records within 500m

0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

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.

19.5 National karst database

Records within 500m

0

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

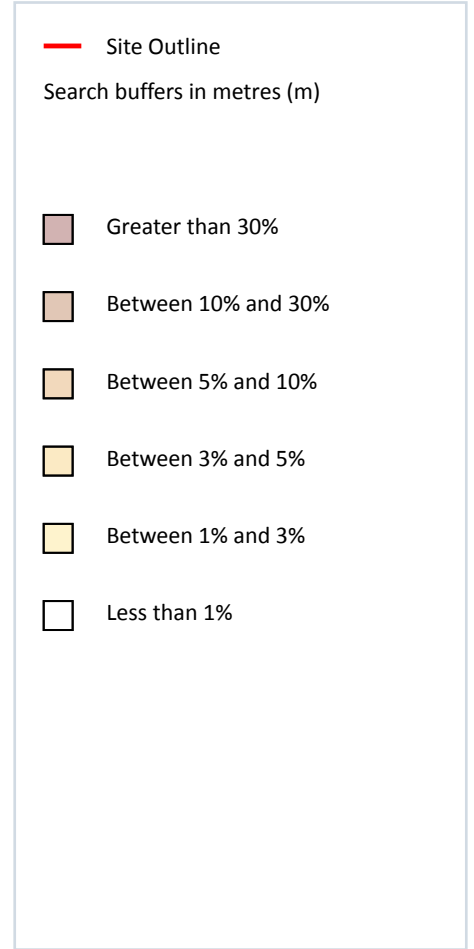
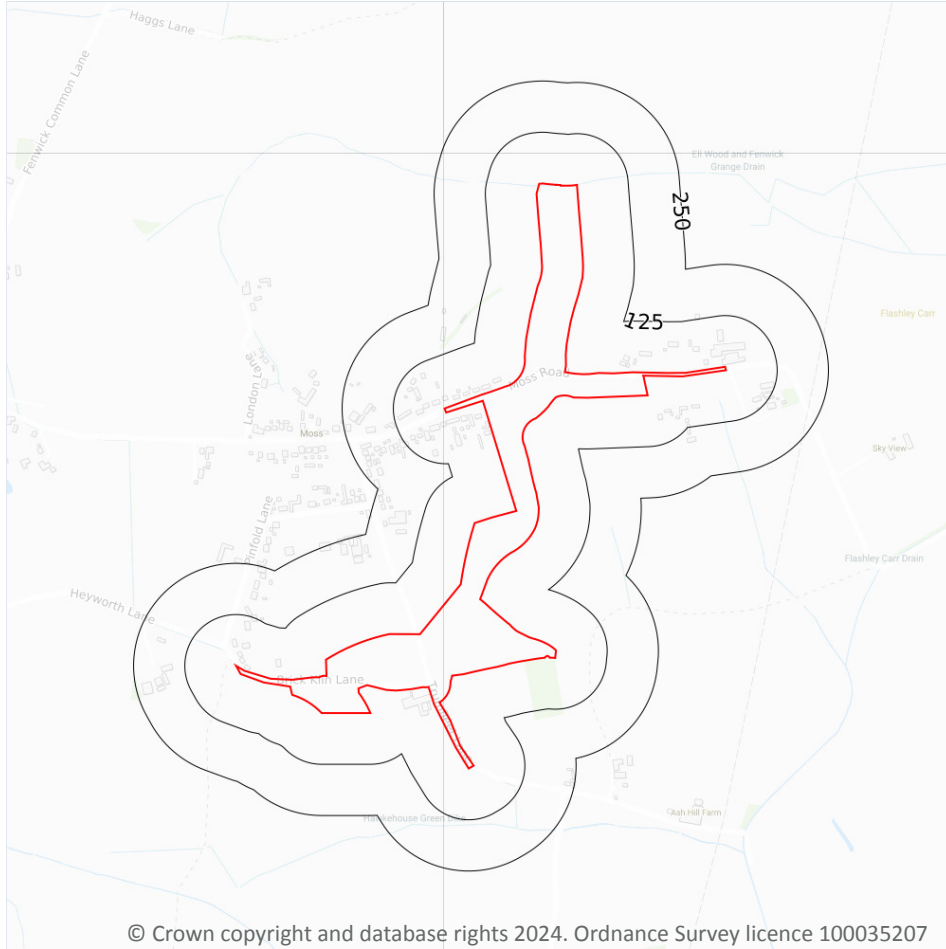
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

1

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

Features are displayed on the Radon map on [page 105 >](#)

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

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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

14

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
3m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
3m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
20m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
21m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
22m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.



21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

0

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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



This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

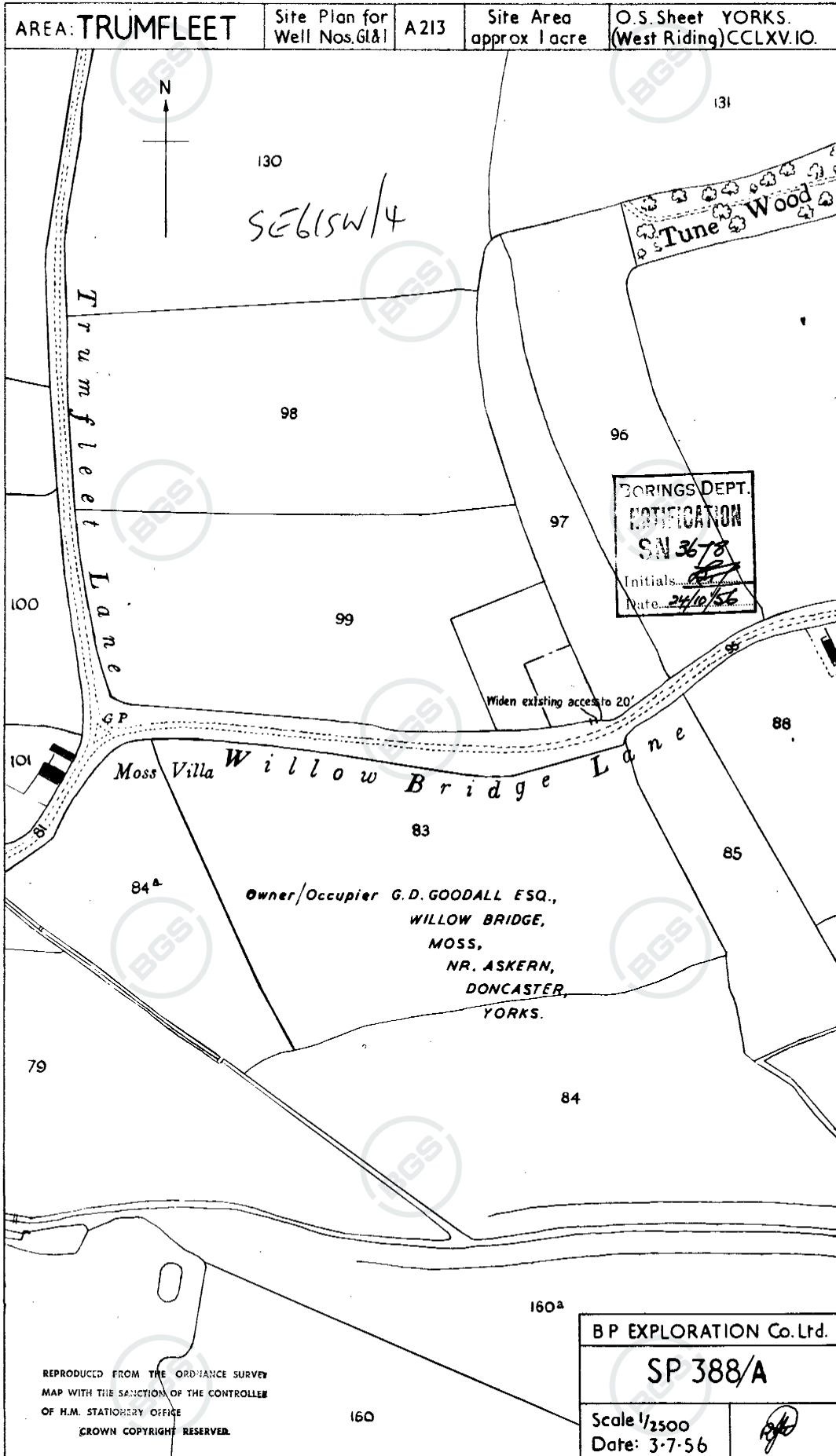
Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference> ↗.

Terms and conditions

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



Annex B BGS Exploratory Hole Records





SE61SW/4 C/ SE61/27A

79/199 A

①

SE6052 1265

B P EXPLORATION CO. LTD.

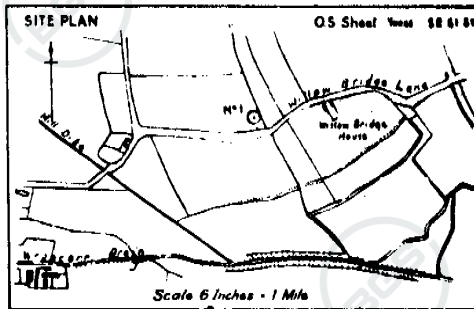
TEST AREA TRUMFLEET
COUNTY YORKS.
R.T.E. 26 83 AOD

WELL N° 1
LICENCE A213
LAT. 53° 36' 22.0"
LONG. 01° 05' 07.4"

BORINGS DEPT
NOTIFICATION
SN 3078

HISTORY

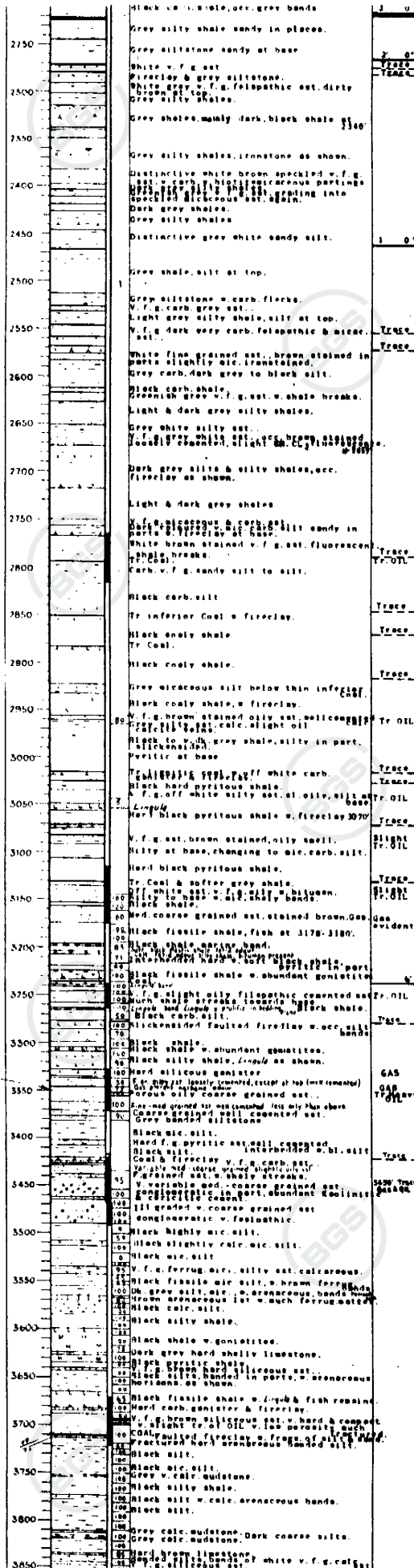
Drilling commenced 16 12 '96
Drilling completed 1 9 '57
Rig No. 50 to 3157; T 32 Ideal to Final Depth
Driven Parman Diesel



LEGEND

- Shale Clay Mudstone Etc.
- Coal
- Calcareous in part
- Silt
- Fireclay
- Anhydrite and Gypsum
- Sandy silt
- Ironstone nodules
- Salt
- Thin beds silt sand shale - No iron
- Chert and Flint
- Igneous
- Sandstone pebbly sandstone
- Limestone
- Conglomerate Breccia
- Dolomite

GEOLOGICAL FORMATION	DEPTH IN FEET	LOG	DETAILS OF FORMATION	OIL GAS WATER CONSUMES	CASINGS	REMARKS
DRIFT			No Samples			
TRUMFLEET	30		Loosely cemented pebbly yellow-brown sat			
	100		finer at base.			60' Cemented 1 1/2" casing.
	150		Well ferruginous shale & fine sande earthy in parts, sat. slightly calc.			
	200					
	250		Fine grained ferruginous calc. sat. & (irregular grains 1/2) sorted & loosely cemented.			
	300					
PERMIAN	330		Bed silty sat. becoming whitish at base.			
UPPER MARLS	350		White hard fine-grained sat			
	400		Red marl, silty in places occasional gypsum.			4 1/2" Dev. n°
UPPER LIMESTONE	430		Very buff limestone siliceous at base w. satin spar			
	450					
MIDDLE MARLS	480		Hard dark grey calc. silty			
	500		Dark grey fine grained sat. occ. lat. bands			
	550		Dark grey indurated f.g. sat. w. marl w. gypsum & anhydrite.			
	600		Red marl w. occ. green marl gypsum & brown bands anhydrite.			
	650		Red marl.			
LOWER LIMESTONE	680		Dolomitic limestone band.			
	700		Red marl.			
	750		White dolomitic limestone.			



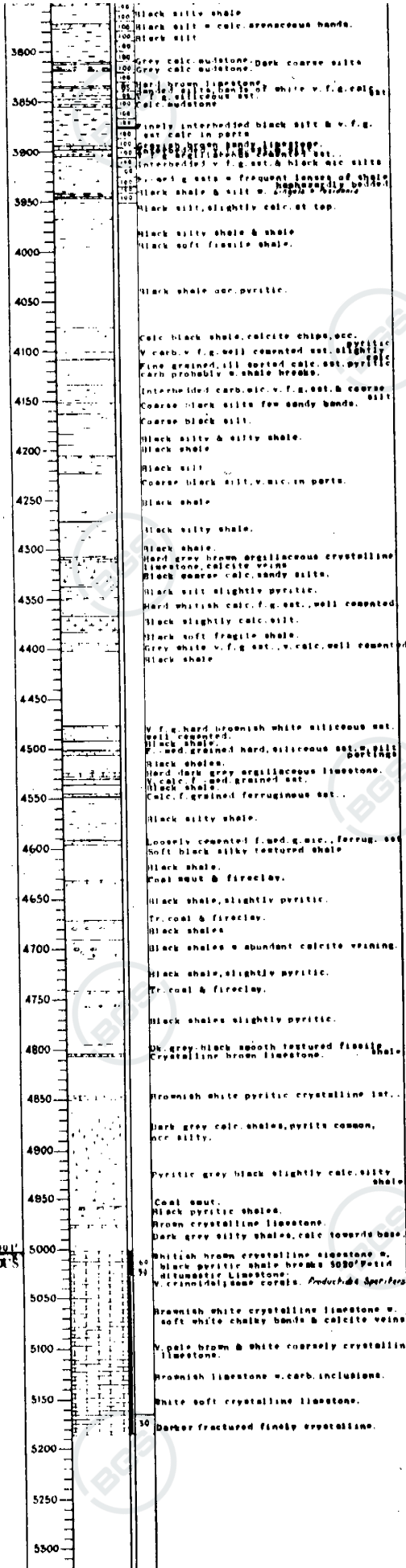
COAL 2218-2221' Top Beeston Coal.
(Whimber).
C/SE61/27A

79
199

COAL 2462:
COAL Tr. 2554'
COAL Tr. 2571'
2614' Kilburn Harbor. 7.
2749' Dev. 4N. S. 20' W.
2778' Dev. 4N. S. 25' W.
2783'-2780' CHCL colour slight oil odour
COAL Tr. 2780'
D. S. T. 2760' 2818' No Production.
COAL Tr. 2846'
COAL Tr. 2868'
COAL Tr. 2918'
2956'-2959' CHCL colour OIL, slight odour, good fluorescence.
2749' Dev. 4N. S. 20' W.
2778' Dev. 4N. S. 25' W.
2783'-2780' CHCL colour slight oil odour
COAL Tr. 2780'
D. S. T. 2760' 2818' No Production.
COAL Tr. 2846'
COAL Tr. 2868'
COAL Tr. 2918'
2956'-2959' CHCL colour OIL, slight odour, good fluorescence.
Set. good fluorescence, & odour faint
CHCL colour
3070' Dev. 4N. S. 40' W.
3070' Dev. 5W. S. 35' W.
Good fluorescence & odour, faint CHCL colour.
D. S. T. No. 3 3127-3157
Prod. Gas cu. ft/day, 14 galls
reservoir color, OIL
3170 Dev. 4N. S. 35' W.
D. S. T. No. 4 3150-3174
Prod. 8 galls OIL & 600 No. F
& comb. gas; Marine band, 40 galls reservoir
D. S. T. No. 5 3228-3268 No Production.
6 galls reservoir
5298' Cemented 6W casing
A. res. column met w. Marine band
3320' Dev. 4W. S. 45' W.
3340' Dev. 4W. S. 45' W.
CHCL, OIL, Gas present.
Heavy OIL, 100 galls
D. S. T. No. 6 3328-3352
Prod.: 200,000 cu. ft. GAS/day &
Sec. 1350' Dev. 3W. S. 45' W.
U. S. T. No. 7 3382-3371' 3352' Dev. 3W. S. 45' W.
Prod. 10,000 cu. ft. GAS/day &
220 galls water, no oil.
D. S. T. No. 8 3418-3454
Prod. 2700 cu. ft. GAS/day
No Field.
D. S. T. No. 9 3482-3482'
No Production.
3533' Dip 12'
3534 Dip 12' - 15'.
A. res. column met w. (granitic) marine band
D. S. T. No. 10 3670-3721'
No Production.
Dip 8' - 10'.
3720'-3728' Dip 40'
3730 Dip 10'.
3810' Dip 10'.



1



C/ SE61/27A

3810' Dip 10'
3880 Dip 5'
3930 Dip 5'
3943 3945 Fish - *Argulus* & *Planorbis*

4100' Dev. 1' (Tetco)
4115' Very slight fluorescence

79 / 199

4668' Fossil traces on shale.

4707' Dev. 3N' (Tetco).

D. S. T. No. 11 5001-5028'
No Production.

D. S. T. No. 12 5001-5104'
Prod. 28,000 galiv Water / day

5127, 5108' thin coaly seams.
5108' *Planorbis*

Final Depth 5186' 2 7 87.

COMPLETION
Plugged back from final depth to 3352'
with cement.
6 1/2" casing cemented at 3298'

5001' CARBONIFEROUS LIMESTONE

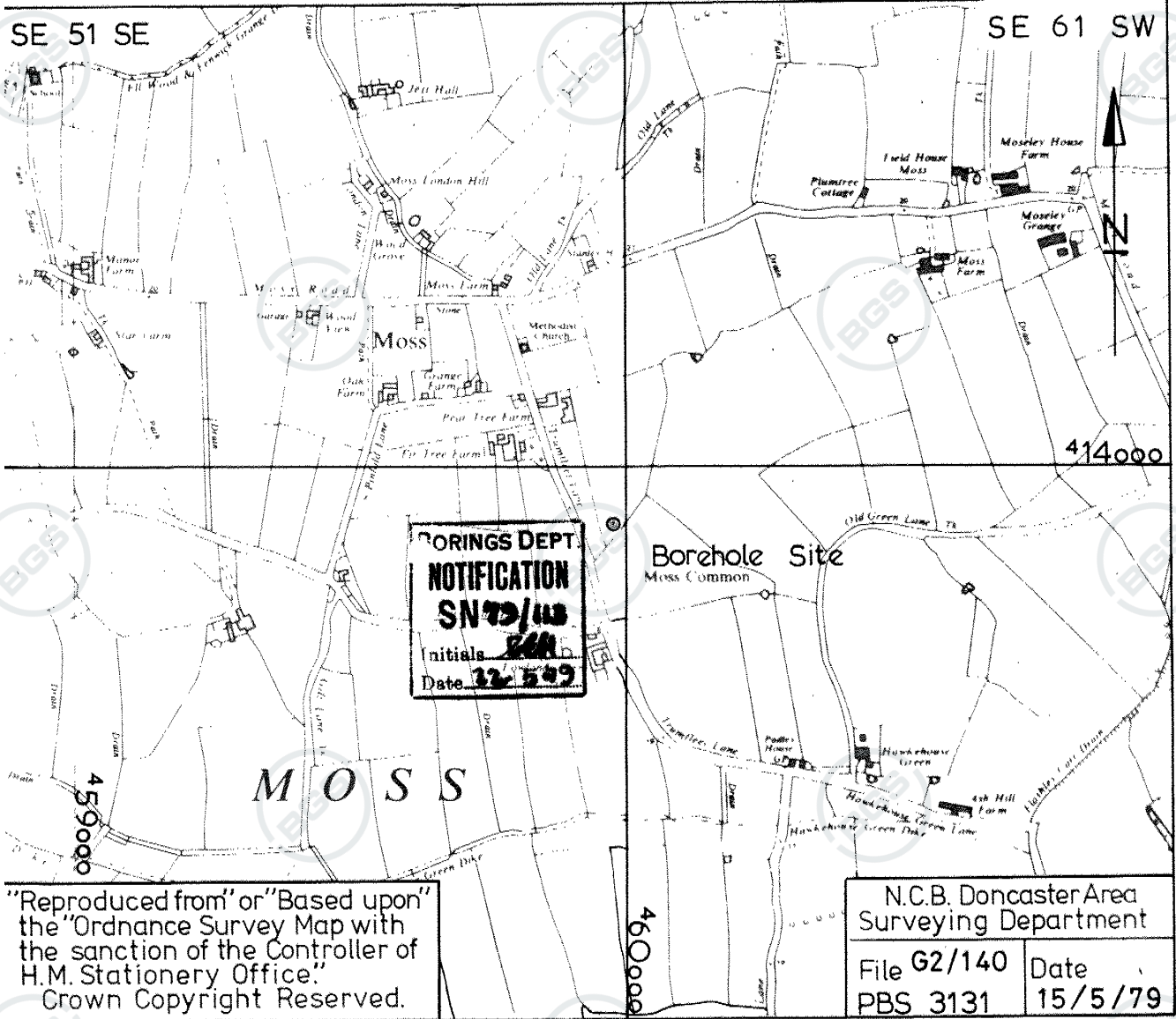


NATIONAL COAL BOARD **SE 51 SE/19** DONCASTER AREA

BOREHOLE LOCATION PLAN

MOSS BOREHOLE

SCALE = 1/10560



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N.C.B. Doncaster Area
Surveying Department
File G2/140 Date 15/5/79
PBS 3131

Bored from **Surface** to **Coal Measures**
National Grid Coordinates **E 459977m** **N 413897m**
Levels: **Ground level and boring datum 6.020 metres Above**
Ordnance Datum

6 inch Map	B. H. regd. No.	6 inch Map	B. H. regd. No.
WR 265 NW (County, Sheet & Qtr.)		SE 51 SE (Nat. Grid Sheet & Qtr.)	221



FORM B 70
SERIES 18C

Section of MOSS BOREHOLE

Purpose Exploration for Coal. Seams proved - Wheatworth to Low Beeston and minor seams of Lower Coal Measures

Exact Site and Millstone Grit
O.S. N.G.R. SE,59977/13897

Level at which bore commenced relative to O.D. 6.02
A.O.D.

Date of sinking or boring April - June 1979

Sinker or borer Foraky Limited

Cores, other than coal, examined by J.E. Johnson & P. Dranfield

*Delete as appropriate

13-4-3

Yorks 265 NW (County, Sheet and Qtr.)	
SE 51 SE 19 (Nat. Grid, Sheet & Qtr.)	
Attach tracing from a map or sketch map if possible	

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m	cm	m	cm
	OPEN HOLE to 312.00				
	Data from cuttings and electric logs				
Drift	Soil, dark brown loam		30		30
	Clay, mottled yellow/brown and grey		50		80
	Clay, purplish grey, some brown mottling	1	20	2	00
	Clay, grey/brown, a few large 2cm pebbles, some of yellow brown sandstone at 25m traces of coal at 30m	33	00	35	00
Bunter Sandstone	Clay, slightly darker brown, some fine yellow gravel (10%) and some coal at base	3	00	38	00
	Sandstone, reddish brown, some reddish brown marl, sandstone fine towards base	44	00	82	00
Upper Permian Marl	Marl, reddish brown, 'greasy' texture with green silty 'reduction' spots and pockets, traces of white anhydrite and some calcareous siltstone around 88m, traces of pale greenish grey anhydrite at 89m.				
	Some lighter brown marl 92m - 97m with traces of anhydrite, greenish grey 'reduction' spots continuing. Gypsum evident below 99m. Grey marl evident below 106m, gypsum and anhydrite conspicuous below 108m. From electric logs mainly beds of gypsum and anhydrite from 107.80m to 111.20m	31	00	113	00
	Limestone, grey	18	80	131	80
Middle Permian Marl	Marl, grey with gypsum passing into mainly reddish brown marl with gypsum and some greenish brown anhydrite, especially between 143.00m and 149.00m	17	20	149	00
	Marl, reddish brown and grey with gypsum and some anhydrite	23	40	172	40
Lower Magnesian Limestone	Limestone, grey with some gypsum and anhydrite, anhydrite dominant around 176m and conspicuous at 185m, 191m	19	60	192	00
	Limestone, fawn grey and light grey	30	00	222	00
Lower Permian Marl	Marl, grey		50	222	50
Basal Permian Sands	Sandstone, grey, dark grey and bluish grey	18	50	241	00
	Mudstone with beds of siltstone	5	70	246	70
	Siltstone mainly with sandstone beds	3	90	250	60
	Mudstone	1	00	251	60
	Sandstone	2	00	253	60
	Mudstone, silty		60	254	20
	Sandstone, silty in top 3cm	7	00	261	20
	Mudstone	1	50	262	70



copy

FOR No. 4 B(H SEE SESO/41
RECORD OF WELL

For Survey use only Licence No. 91222/16/385

SE60/78 N. 9797
A+B **B**
140 SE60NW/10

At Thorpe Marsh, No. 2.
Barnby Dun.
Town or Village... Nr. Doncaster.
County... Yorks.

FOR 'A' SE60NW 6075 0993

EXACT SITE OF WELL

Six-inch sheet... 265 SW/E. Six-inch National Grid sheet... SE60NW 6075 0969

For... C.E.G.B. State whether owner, tenant, builder, contractor, consultant, etc.:

DELETE WHICHEVER IS INAPPLICABLE

Address (if different from above).....

Level of ground surface above sea level (O.D.).....ft. If well top is not at ground level, state how far } above:* below;.....ft.

SHAFT.....ft.; diameter.....ft.; HEADINGS (please attach details—dimensions and directions)

BORE 397.....ft.; diameter of bore: at top.....in.; at bottom.....in.

Full details of permanent lining tubes (position, length, diameter, plain, slotted etc.).....

6 ft. 6 ins. of	36 ins. Tubes	1 ft. below surface
26	6	33
76	27	1
189	24 slotted	61

Water struck at depths of.....ft. below well top.

TEST CONDITIONS

Rest level of water 9' 6" ft. above* below well top. Suction at.....ft. Yield on..... hours* test days* pumping at.....galls. per.....with depression to.....ft. below well top.

Recovery to rest level in..... mins.* hours Capacity of pump.....g.p.h. Date of measurements.....

NORMAL CONDITIONS

DESCRIPTION OF PERMANENT PUMPING EQUIPMENT:

Make and/or type.....Motive power.....

Capacity.....galls. per hour. Suction at.....ft. below well top.

Amount pumped.....galls. per day. Estimated consumption.....galls. per week.

Well made by... C. Isler & Co., Ltd., Date of sinking April 1960.

Information from.....

ADDITIONAL NOTES ANALYSIS (please attach copy if available)

Supply 21,000 g.p.h. - 67' 4"
41,000 g.p.h. - 135' 7"

For Survey use only

Date Received 7/12/60

Section 6

Pumping test

Observ. well

Recorder

E.R. log

Site marked on

1" map

6" map (use symbol)

Record forwarded

to Yorks D.G.

date 6.4.60

GEOLOGICAL SURVEY
WATER DIVISION
SOUTH KENSINGTON
LONDON, S

A

88/140A

lic. 91222/16/385 authorised two boreholes.
One proved unsuccessful 'A' - no details received - + a replacement 'C' was sunk.
See letter from C.E.G.B. - 31.10.62 (W7/156)
9.5.63.

2311/59 (6897) W/54188-P.5.47 10M 1160 M.P.L.L. G.772



(For Survey use only)
GEOLOGICAL CLASSIFICATION

Made Ground
Alluvium on
Drift undivided
Bunter Sst

NATURE OF STRATA If measurements start below ground surface, state how far	THICKNESS		DEPTH		Water level	
	Feet	Inches	Feet	Inches	Rods in	Rods out
Made up ground, Red shale	5		5			
Clay	11		16			
Gravel	8		24			
Red sand	8		32		617"	
Soft sandstone	8		40		"	
Sandstone	21		61		"	
Sandstone and pebbles	3		64		"	
Sandstone	18		82		"	
Sandstone - No cores	10		92		"	
Sandstone with a few pebbles and marl pellets	5		97		"	7
Sandstone - No cores	9		106		"	
Sandstone with a few pebbles and marl pellets	46		152		"	
Sandstone - No cores	5		157		"	
Sandstone - few pebbles and marl pellets	57		214		"	9
Sandstone - No core	5		219		"	
Sandstone	1	6	220	6	"	
Sandstone, more pebbles - No core	4	6	225		"	
Sandstone, more pebbles	79	6	304	6	"	
Coarse sandstone with large nodules of marl	3	6	308		"	
Sandstone	78	9	386	9	"	
Fine red sandstone	6		392	9	"	
Red marl		7	393	4	"	
Grey sandstone		4	393	8	"	
Red marl	1	4	395		"	
Grey sandstone	1	5	396	5	"	
Red sandstone		7	397		"	

RJB
3/2/76

N.B.

88

N. 4471.
SE 60/78
A & B

MINISTRY OF HOUSING AND LOCAL GOVERNMENT

SECTION 14 OF THE WATER ACT, 1945

LICENCE NO. 91222/16/385

The Goole Area (Conservation of Water) Order, 1948.

40

A & B

The Minister of Housing and Local Government, in exercise of his powers under Section 14(6) of the Water Act, 1945, hereby licences the Central Electricity Generating Board to construct two boreholes for the purpose of abstracting underground water at Thorpe Marsh in the Parish of Barnby Dun with Kirk Sandall, in the Rural District of Doncaster, Yorkshire, the situation of which is more particularly shown on the map annexed hereto and thereon marked O, subject to the observance of the following conditions:-

1. The depth of the boreholes shall not exceed 400 feet;
2. The capacity of each pump to be installed for abstracting water from the boreholes shall not exceed 25,000 gallons per hour;
3. Not more than 500,000 gallons of water shall be abstracted from the boreholes in any one day of 24 hours;
4. As soon as practicable apparatus approved by the Minister shall be installed to measure the abstraction from the boreholes;
5. Readings of the said apparatus shall be taken and recorded to show the quantity of water abstracted in any one day of 24 hours.
6. Any officer of a local authority within whose county or district, or any officer of statutory water undertakers within whose limits of supply, the boreholes are situated, being an officer authorised for the purpose of section 14(12)(a) of the Water Act, 1945, shall on request be permitted to inspect or transcribe records required to be kept by the licensee in accordance with the preceding condition and relating to any period not earlier than 5 years before the request is made.

GIVEN under the Official Seal of the
Minister of Housing and Local Government
this twenty-eighth day of July
nineteen hundred and fifty-nine.

L.S.

J. E. BEDDOE

Assistant Secretary

Ministry of Housing and Local Government.

N.B. UNDER THE WATER ACT, 1945, IT IS AN OFFENCE PUNISHABLE BY FINE TO CONTRAVENE ANY CONDITION ATTACHED TO THIS LICENCE.

T. Sec.
Sec. Dept.
C. E. G. 18.
Dunley Jr.
W. I.



88 SHEET SE 61 SW
88 SHEET SE 60 NW

Central Electricity Generating Board

MINISTRY OF HOUSING AND LOCAL GOVERNMENT

WATER ACT, 1945.

SECTION 14

A&B

SE60/78

This is the map referred to in LICENCE NO. 3 B. 5. A&B

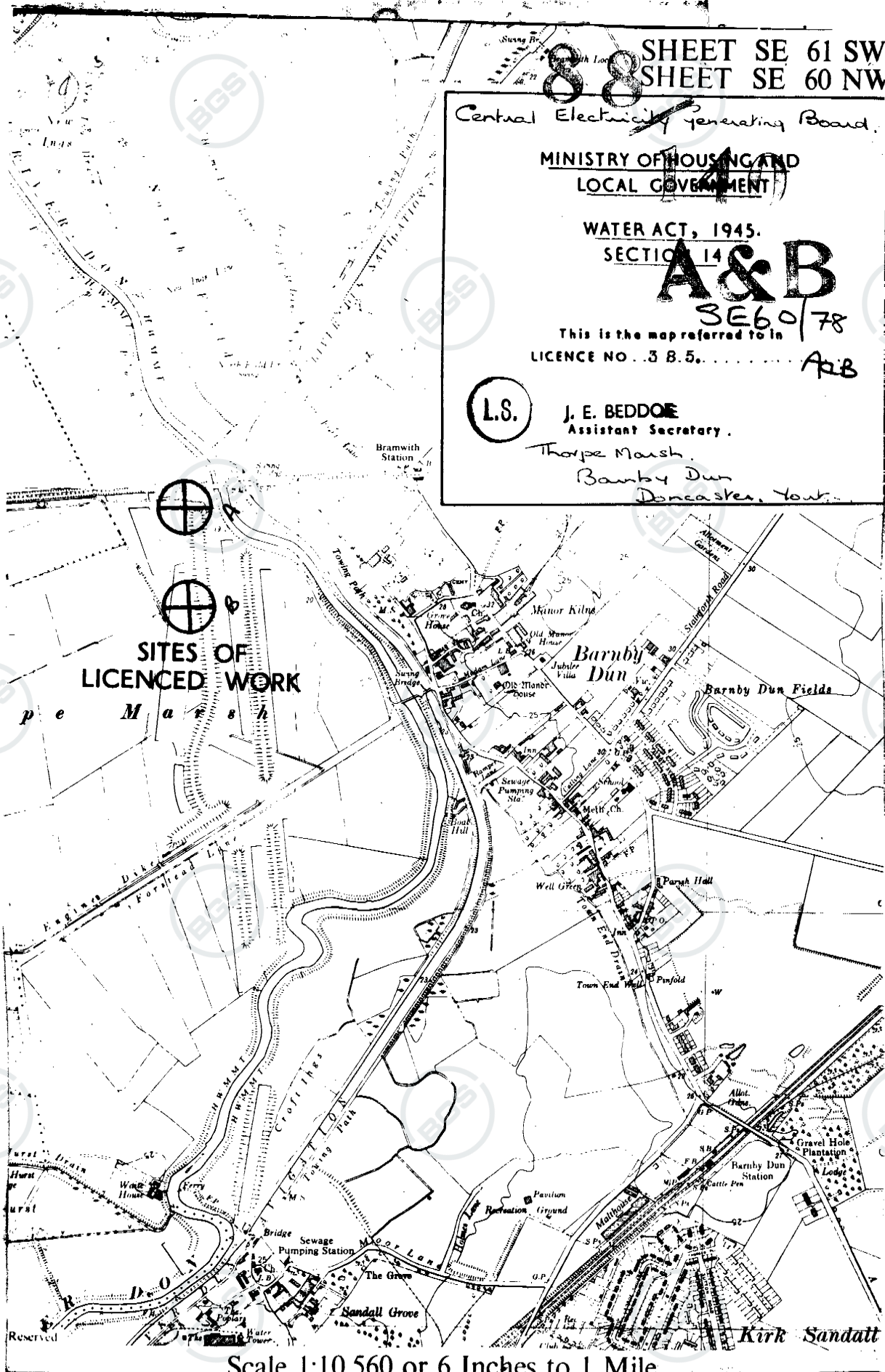
L.S.

J. E. BEDDOE
Assistant Secretary.

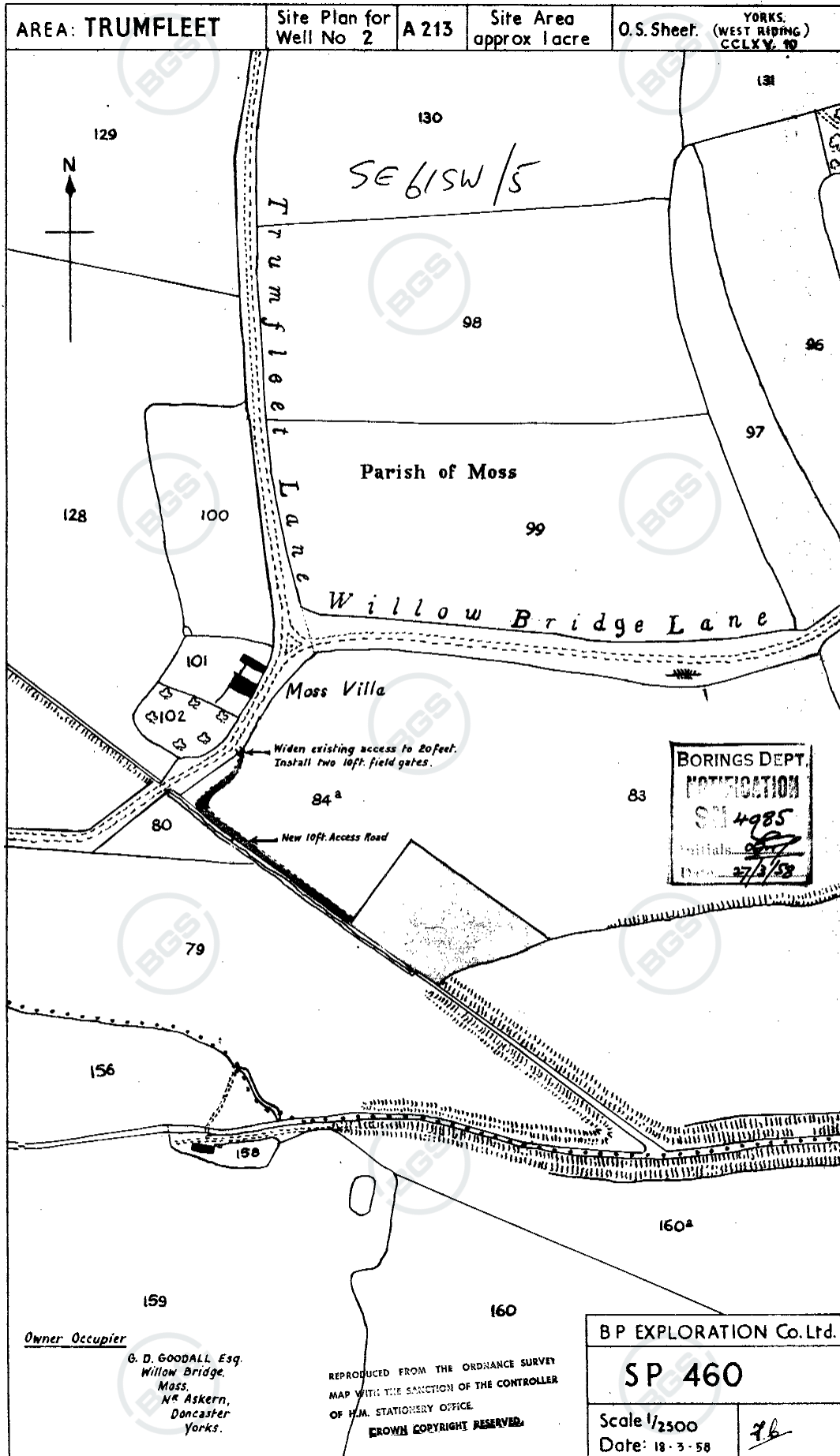
Thorpe Marsh
Barnby Dun
Doncaster, Yorks.

SITES OF LICENCED WORK

Thorpe Marsh



Scale 1:10,560 or 6 Inches to 1 Mile





YORKSHIRE OUSE & HULL RIVER AUTHORITY - Survey of Existing Boreholes

G.S. Ref. No. N.G.R. SE 603. 124
53° 36' 18.2" N. 01° 05' 16.5" W.

OWNER Name T.M.M. Fleet Ltd. Y. O. H. R. A.
Address B.P. Licence No.
App. No.

Borehole/Well RTE. 28.4' @.
diameter depth

Wellsinker: Avg. Sep. 58.

Strata details:	TO	100	170	240	310	380	450	520	590	660	730	800	870	940	1010
Drift. Yellow-brown Sand & clay.	21.4	30.18	51.52	88.53	97.54	118.87									
Sandy pebble															
Red st. med. fine															
Silty shale.															
Permian (upper)															

Authorized Abstraction:
g.p.h.
g.p.d.
m.g.a.

Purpose:



INSPECTION REPORT	Date of Inspection
<p>Present Owner</p> <p>Access details (answer yes or no)</p> <p>Suitable for 1/2" depth probe -----</p> <p>Suitable for 3" instruments -----</p> <p>Access by Landrover -----</p> <p>Owner willing to allow access -----</p>	<p>Other Comments:-</p>
<p>Water level at time of inspection</p> <p>----- metres below -----</p>	<p>Sketch Plan of Location</p>



B P EXPLORATION CO. LTD SE61/278 B

③ TEST AREA TRUMFLEET
COUNTY YORKS.
R.T.E. 28' 4" A.O.D.

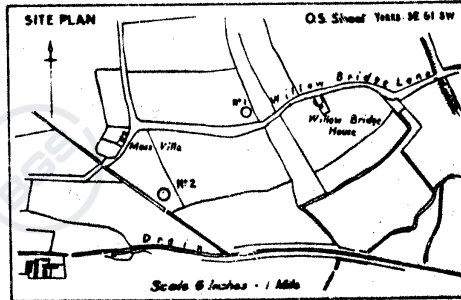
WELL NO 2
LICENCE A 213
LAT. 53° 36' 18" 2'
LONG. 01° 05' 16" 5"

SE61/199
Date originally notified 24/1/58
Date notified 24/1/58

SE6035 1245

HISTORY

Drilling commenced 5th August 1958
Drilling completed 2nd September 1958.
Rig T 32
Power Diesel.



LEGEND

- Shale Clay Mudstone Etc.
- Silt
- Sandy silt
- Thin bands of sand shale - mudstone
- Sandstone
- Conglomerate Breccia
- Coal
- Fracture
- Ironstone nodules
- Chert and Flint
- Limestone
- Dolomite
- Calcareous in part
- Anhydrite and Gypsum
- Salt
- Gypsum

Dated on Yorks. 265 S.W.C. 3.3.59. Q.

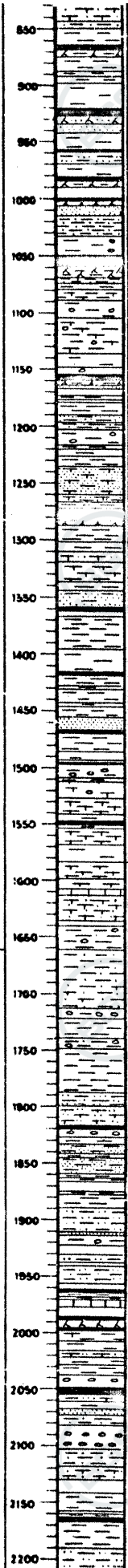
GEOLOGICAL FORMATION	DEPTH IN FEET	LOG	DETAILS OF FORMATION	OIL GAS WATER CHLORIDES	CASING	REMARKS
TRIASSIC	0-50		Frable yellow-brown weathered, slightly gritty non-calc. or v. slightly calc. sat. w. much weathered clay.			
	50-80		Greenish-white, mainly unweathered sat.			76' Cemented 16" casing.
	80-150		Bright red coarse & med. g. calc. sat. w. minor marly shale. Grit in places.			
	150-200		Med & f.g. red calc. sat. Minor red early shale.			
	200-250		F.g. red calc. sat.			
PERMIAN	250-300		Med. g. red calc. sat.			
	300-350		F.g. red calc. sat. sometimes mic. near the top. Red early shale occasional.			
	350-400		Red calc. silty shale, w. minor lt. grey-white calc. silty shale.			
	400-450		White hard well-consolidated dol. list. Red al. calc. partly dolomitized marl.			
	450-500		Red highly calc. silty marl. Much fibrous & tabular gypsum.			
	500-550		Gypsum. White & yellowish white oolitic calc. dol. Grey & yellowish grey crumbly calc. marly dol. list. minor red early dol. list.			500' W 42 W.
	550-600		White & yellowish-white, occ. oolitic well cemented crystalline dol. list. Sat. often highly calc.			
	600-650		Yellow & greyish-white highly dol. list. Brown, lt. & dk. grey crystalline dol. list. Red & grey al. sandy & silty marl. Gypsum common.			538' Cemented 11" casing.
	650-700		Gypsum v. red marl. Red al. sandy & silty marl. Gypsum occ.			
	700-750		Red & grey al. sandy marl & dol. list. Grey al. calc. gritty siltst. w. gypsum.			
UPPER CARBONIFEROUS	750-800		Red & brown shaly dolomitized marl, cl. calc. w. gypsum.			
	800-850		White opaque well-consolidated non-calc. dol. list. w. red marl & gypsum.			
	850-900		White opaque well-consolidated partly calc. dol. list.			
	900-950		White & black speckled dol. list. & red dol. marl.			
	950-1000		Grey & black speckled & yellowish-white dol. list. minor red marl & gypsum. Grey, white & yellow al. calc. dol. list.			



UPPER CARBONIFEROUS

Middle Coal Measures

LOWER COAL MEASURES



Grey, yellow & red sl. calc. pyrites occasional.
Grey non-calc. v. sl. sandy siltst.
Lt. med. & dk. non-calc. sl. silty shale.
Siltst. seatearth.
White. lt. & med. grey non-calc. sl. etc. siltst.
Grey non-calc. sl. silty & mic. shale.
Grey non-calc. sl. silty & mic. shaly siltstons.
Grey non-calc. sl. silty shale. occ. ironstone.
Siltst. seatearth.
F. w. al. felspathic impure sat.
Sl. silty shale. w. occ. ironst.
Siltst. & silty sat.
Silty shale, partly carb. & coal traces.
Siltst. seatearth.
Siltst. & silty shale. non-calc. sl. mic.
Mudst. seatearth.
V. f. g. sl. calc. & mic. sat.
Lt. grey v. sl. calc. sl. mic. & carb. sandy siltst.
Lt. grey non-calc. sl. silty shale. ironst. occ.
Siltst. seatearth.
Lt. grey v. al. calc. sl. silty siltst.
Lt. grey sl. calc. & mic. shaly siltst.
Lt. & med. grey non-calc. sl. silty shale.
occ. ironst.
Lt. grey & yellowish grey sl. calc. siltst. w. carb. frags. & occ. ironst.
Lt. grey non-calc. sl. silty shale & mudst.
Lt. & med. grey non-calc. shale. occ. ironst.
Siltst. seatearth. shaly non-calc. sat.
Lt. grey non-calc. mic. siltst.
Lt. grey & white sl. calc. v. f. g. sat.
Lt. grey non-calc. sandy siltst.
Lt. grey non-calc. sl. silty shale. occ. ironst.
Med. & dk. grey black non-calc. sl. silty shale.
Lt. grey & buff. silty non-calc. sl. silty shale.
V. f. g. lt. grey & white calc. silty sat.
Lt. grey & white calc. sandy siltst.
Lt. grey non-calc. silty mudst. occ. ironst.
Med. grey shaly seatearth.
Lt. grey non-calc. or v. sl. calc. siltst.
Lt. grey-white non-calc. shaly siltst.
Lt. grey-white sl. calc. sandy siltst.
Lt. grey highly calc. sl. felspathic siltst.
Lt. grey non-calc. sl. felspathic siltst.
F. g. non-calc. silty sat. w. felspathic carb. Non-calc. shale.
Siltst. w. carb. frags.
Silty shale occ. carb.
Siltst. w. felspathic & carb. impurities.
Siltst. & carb. frags.
Silty shale.
V. f. g. sat.
Siltst. occ. sl. calc. & minor shale.
Lt. grey non-calc. sl. silty shale.
Lt. grey non-calc. or v. sl. calc. silty shale.
Lt. grey calc. sl. mic. siltst.
Lt. grey sl. calc. silty shale. occ. ironst.
Lt. grey-white, v. calc. felspathic siltst.
Lt. grey non-calc. or sl. calc. silty shale.
Lt. grey sl. calc. silty shale.
Lt. grey calc. sl. shaly siltst. calc. frags.
Lt. grey non-calc. sl. silty shale. minor ironst.
Lt. grey & buff. grey calc. shaly siltst.
Lt. grey highly calc. siltst. & vein calc. shaly & grey gritty granular sat.
Lt. grey & buff. sl. sandy calc. siltst. occ. ironst.
Lt. med. grey & buff. non-calc. shaly mudst.
Lt. grey non-calc. or sl. calc. siltst. occ. carb. frags. & ironst.
Lt. grey & white non-calc. sandy siltst. carb. frags. & occ. ironst. rare.
Siltst. sl. calc. towards base.
Lt. & med. grey non-calc. silty shale. v. ironst. rare.
Lt. grey non-calc. or sl. calc. shaly siltst. ironst. rare.
Lt. grey white calc. sl. sandy siltst. occ. ironst.
Lt. grey non-calc. or sl. calc. siltst. w. carb. frags. & coal traces.
White & silty grey non-calc. & sl. calc. sandy siltst.
White & lt. grey calc. sandy siltst.
Grey non-calc. shale. w. ironst.
Grey non-calc. silty shale.
Silty shale & siltst.
V. f. g. siltst. non-calc. sat. w. carb. frags.
Siltst. & shale.
Dk. brown black shales, grey shale, non-calc. ironst. & siltst.
Lt. grey shaly siltst.
Grey sandy siltst.
V. f. g. felspathic non-calc. sat. carb. frags. Grey non-calc. silty shale. calc. ironst.
Dk. brown & grey fissile shale. rare calc. frags.
Grey sandy shale. brown sh. w. carb. frags. Sandy siltst. minor v. f. g. sat. occ. ironstone.
Grey non-calc. shale.
Dk. brown shaly siltst. & grey coal. Siltst.
Lt. & med. grey non-calc. shaly mudst.
Lt. & med. grey non-calc. shaly mudst. seatearth.
Lt. grey sl. calc. siltst.
Lt. & med. grey non-calc. or sl. calc. silty shale.
Lt. grey & white calc. sl. sandy siltst.
Lt. grey non-calc. silty mudst.
Lt. & med. grey non-calc. siltst.
Lt. & med. grey non-calc. shale. w. ironst.
White & lt. grey sl. calc. siltst. & buff. shaly & grey non-calc. silty shale. calc. frags.
V. f. g. v. calc. lt. grey white & brown sat.
Lt. grey non-calc. sl. sandy siltst.
Med. grey non-calc. shale. w. ironst.
Lt. & med. grey non-calc. sl. sandy siltst.
Lt. & med. grey calc. sl. sandy siltst.
Med. grey non-calc. shale, black carb. shale. occ.
Med. grey non-calc. mic. siltst.
Dk. grey non-calc. pyrites. occ. carb. & pyrites.
Lt. grey non-calc. shaly siltst. carb. debris.
Lt. grey non-calc. sl. sandy siltst.

C/ SE61278
New Hill Coal.

COAL 863' 84'

COAL Tra. 887' 846'

COAL 920' 926' Wotton Field Coal.

COAL 950' 957'

COAL 980' 983' 1000' 1' 8 3/4"

COAL 998' 1001'

COAL 1049' 1058' High Hazel Coal.

COAL 1150' 1160' Kents Thick Coal.

W. at 1280'
COAL 1278' 1283' Barnsley Coal.

COAL 1388' 1361' Dunell Coal.

COAL Tra.

COAL 1415' 1418' Roston Wood Coal

COAL 1460' 1469' High West Coal

COAL 1490' 1499' 1900' 4' N 7 E.

COAL Tra.

COAL 1547' 1930' Lidgett Coal.

COAL Tra.

Clay Cross Marine Sand P.

Coal Tra.

Coal Tra.

COAL 1817' 1820' Fenton Coal ?

Coal Tra.

Coal Tra.

2' at 1966'
COAL 1963' 1964' Thorncliffe Coal

COAL 1984' 1988'
COAL 1994' 1997' Lower Thorncliffe Coal
2000' 1' 5 3/4" E.

COAL 2048' 2054' Silhatone (Blackings) Coal.

COAL Tra.

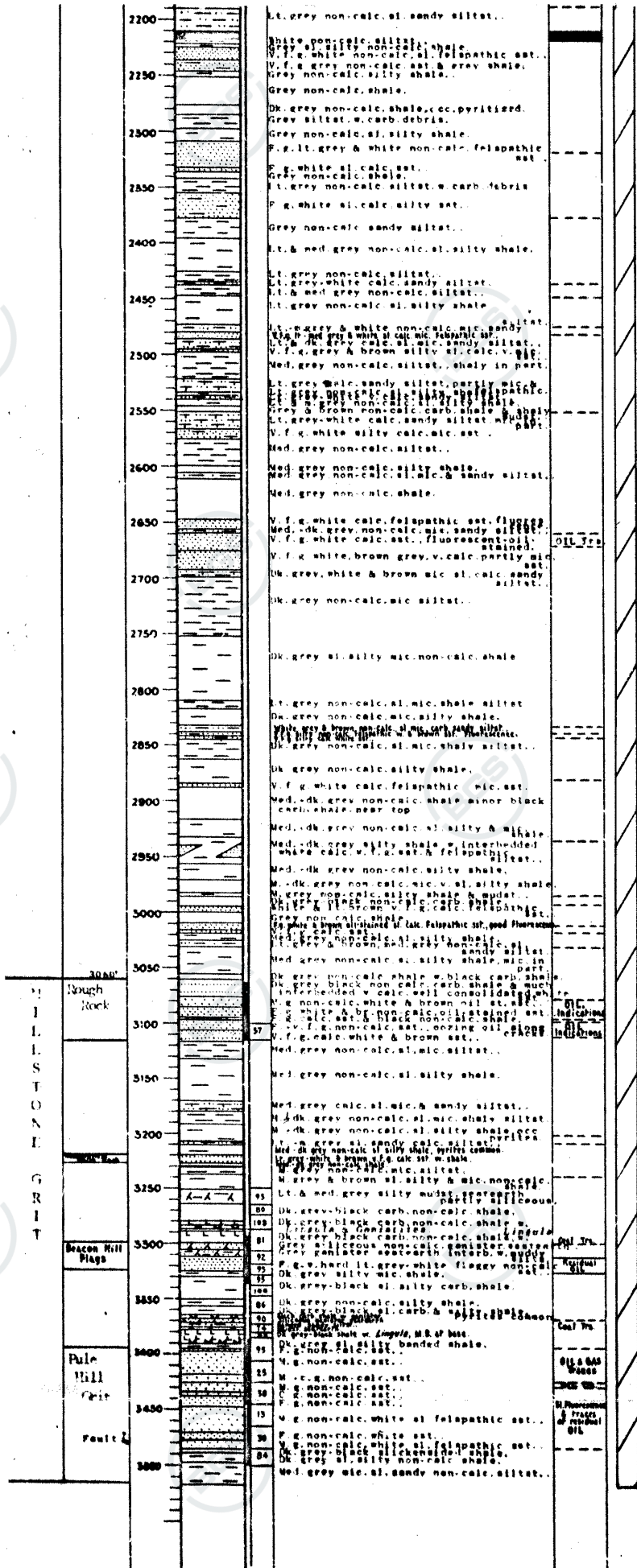
COAL Tra.

COAL Tra.

COAL 2163' 2165' Top Beeston Coal (Whinosey)

Coal Tra.

8200'



SE6127B

2200' COAL 2210' 2217' Charlton Green Coal

Shell Fragments 2267-2268'

Coal Trs. Penistone Green Coal.

Coal Trs. Lower Penistone Coal.

2400' 14° 3 24° E.

Coal Trs.

Coal Trs. Crossside Sst. Coal.

14' at 2500' Greenide Sst.

Shell Fragment. 2544.
Coal Trs.

2600' 14° 5 24° E.

OIL Trs 2658-2670'.
Greenmoor Rock.

2800' 14° 5 13° E.

Coal Trs. Hard Red Sand Coal
Lofley Edge Rock.

Coal Trs. Ganseter Coal

Coal Trs. Clay Coal.

30' at 2980'.
Coal Trs. Coking Coal.
Crosshaw Sst.

OIL Staining.
Coal Trs.

Pot. Clay Marine Band(?)
Rough Rock.

D.S.T. No. 1 3067-3113' Sl. Prod. of drilling mud.

Coal Trs. 3200' 6° S 26° E.
Huddersfield White Rock.

Coal Trs. 6' at 3250'.
Dip 10°

Lingula & Orbiculoidea
Petricolites
Marine Band 3282-3283'
Beacon Hill Flags.

D.S.T. No. 2 3294-5' 3337' No Productive

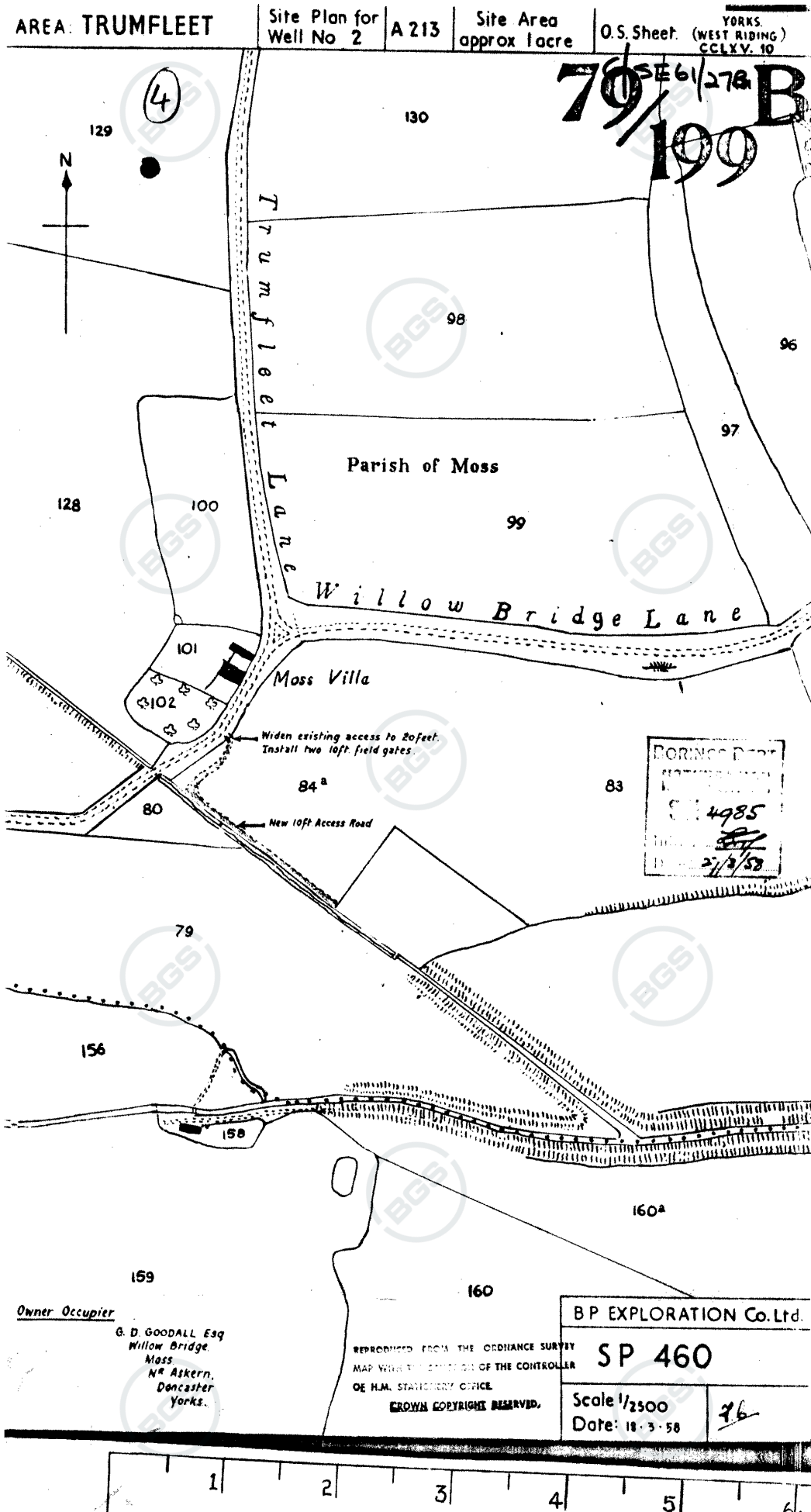
Dip 10°
Petricolites bellinae (part.)
Lingula 3380-3382, 3387-3390.
Marine Band at 3385-3390.
Dip 10° 3400' 8 21° E.

D.S.T. No. 3 3397-3447' Produced
8,400 cu. ft./day GAS.
230 galls./day WATER

D.S.T. No. 4 3387-3500' Produced
2,213 cu. ft./day GAS
270 galls./day OIL
460 galls./day WATER.

Dip 6° 7'
1500' 8 18° E.

Final Depth 3516'.
Plugged back from 3516' to Surface & abandoned.





RECORD OF WELL (SHAFT OR BORE)

SE 61 SW 6
12
88 88
5
60131093

At Station
Town or Village Thorp in Balm, n. Doncast
County Six-inch quarter sheet
For Mr. _____

Exact site of well _____ { Attach a tracing from a map, or a sketch-map, if possible.

Level of ground surface above sea-level (O.D.) _____ feet.

Is well-top at ground level? _____ If not, state how far above ; _____ feet.
below ; _____ feet.

Shaft _____ ft., diameter _____ ft. Details of headings _____

Bore _____ ft. ; diameter of bore : at top _____ ins. ; at bottom _____ ins.

Lengths, diameters, perforations, etc., of lining tubes 3" 2" 5 6'

Water struck at depths, below well-top, of (feet) _____

TEST DETAILS { Rest-level of water 4 ft. ^{above}/_{below} well-top. Suction at _____ ft. Yield on _____ hours' days'
Month _____ pumping _____ gallons per _____ (max. capacity of pump _____ g.p.h.),
Year _____ with depression of _____ feet. Recovery to _____ in _____ mins. hours.

WORKING CONDITIONS { Rest-level of water in _____ (month), _____ (year), _____ ft. ^{above}/_{below} well-top.
Highest " in _____ (month), _____ (year), _____ ft. ^{above}/_{below} "
Lowest " in _____ (month), _____ (year), _____ ft. ^{above}/_{below} "
Suction at _____ ft. Rate of pumping _____ galls. per _____ for _____ hours per day.
with average depression of _____ ft. Recovery to _____ in _____ mins. hours

Quality of water (attach copy of analysis if available) _____

Well made by ? J. Vieeins, jun. Date of well 1916

Information from J.T. Hymas, copied from note book of J. Vieeins, jun.

ADDITIONAL NOTES.

*Actually only using red railway lines.
Since yield 265 SW/K². 09.11.20. 6.10
water very firmy pore - hard. Can only be used occasionally.
No good for working but to maintain. Pump (with used
for drinking) is used.*

*J.T. Hymas
11.11.28*

LOG OF STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Date received.	G.S.M. Office File No.	1" N.S. Map No.	1" O.S. Map No.	Site marked (use symbol) on 1" Map.	on 6" Map.



(For Survey use only)
GEOLOGICAL CLASSIFICATION

NATURE OF STRATA

If measurements start below ground surface, state how far... ..

THICKNESS DEPTH
Feet Inches Feet Inches

13
Division of ALLUVIUM
Bunter St.
BUNTER SST
11

Top soil
Sand
Rough gravel
Calyx gravel
Red sandstone


THICKNESS		DEPTH	
Feet	Inches	Feet	Inches
	0.30		
1	-		
	6.23	8.53	
27	-	28	-
	1.83		10.36
6	-	34	-
	2.44		12.80
8	-	42	-
	20.73		33.53
68	-	110	-



INSPECTION REPORT	WATER QUALITY	DATE OF INSPECTION:-
Present Owner:- Access (Yes or No) 1/2" Probe 3" Instruments Landrover Access Agreed	Date pH Total hard Temp.hard Alk. <hr/> Ca Mg Na K	Other Comments:- <hr/> Sketch Plan of Location
Water Level at time of insp. metres below Date Datum above O.D. R.W.L. above O.D. Date	HCO ₃ SO ₄ Cl NO ₃ <hr/> Fe	

RECORD OF WELL (SHAFT OR BORE)

SE 61/26
88/88
5



①

At Sutton
Town or Village Thorp in Bales, W. Doncast
County Six-inch quarter sheet 265 SW/E
For Mr. SEG1SW/6
Exact site of well SE61SW 6031098

Attach a tracing from a map, or a sketch-map, if possible.

Level of ground surface above sea-level (O.D.) _____ feet.
Is well-top at ground level? _____ If not, state how far above; _____ feet.
below; _____ feet.
Shaft _____ ft., diameter _____ ft. Details of headings _____
Bore _____ ft.; diameter of bore: at top _____ ins.; at bottom _____ ins.
Lengths, diameters, perforations, etc., of lining tubes 3" to 56'
Water struck at depths, below well-top, of (feet) _____

TEST DETAILS Rest-level of water 4 ft. ^{above}/_{below} well-top. Suction at _____ ft. Yield on _____ hours' days' pumping _____ gallons per _____ (max. capacity of pump _____ g.p.h.), with depression of _____ feet. Recovery to _____ in _____ mins. hours.

WORKING CONDITIONS Rest-level of water in _____ (month), _____ (year), _____ ft. ^{above}/_{below} well-top.
Highest " in _____ (month), _____ (year), _____ ft. ^{above}/_{below} "
Lowest " in _____ (month), _____ (year), _____ ft. ^{above}/_{below} "
Suction at _____ ft. Rate of pumping _____ galls. per _____ for _____ hours per day.
with average depression of _____ ft. Recovery to _____ in _____ mins. hours

Quality of water (attach copy of analysis if available) _____

Well made by J. Villiers, jun. Date of well 1916

Information from J.T. Hyman copied from note book of J. Villiers, jun.

ADDITIONAL NOTES.

*Actually only used with railway houses
Sited on Yorks 265 SW/E. O.D. c. 20.
with very ferruginous hard. Can only be used domestically.
No good for washing due to hardness. Pump (not used
for sanitation) in house.*

LOG OF STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Date received.	G.S.M. Office File No.	1" N.S. Map No.	1" O.S. Map No.	Site marked (use symbol) on 1" Map. on 6" Map.	
		88			



(For Survey use only)
GEOLOGICAL CLASSIFICATION

NATURE OF STRATA

If measurements start below ground surface, state how far... ..

SE 61 26

88/5.

(2)

Top soil
Sand
Rough gravel } Alluvium etc.
Calyx gravel }
Red sandstone - Bunter S.S.T.

THICKNESS

Feet Inches

... ..

Feet Inches

Feet	Inches	Feet	Inches
1	-		
27	-	28	-
6	-	34	-
8	-	42	-
68	-	110	-

96007854

Limestone 109

21

102 SK 97 NE/1

1/4" N.S. 102
1/8" O.S. 83
6" 61 N.W./E

Scampton Lincoln Section of Well boring

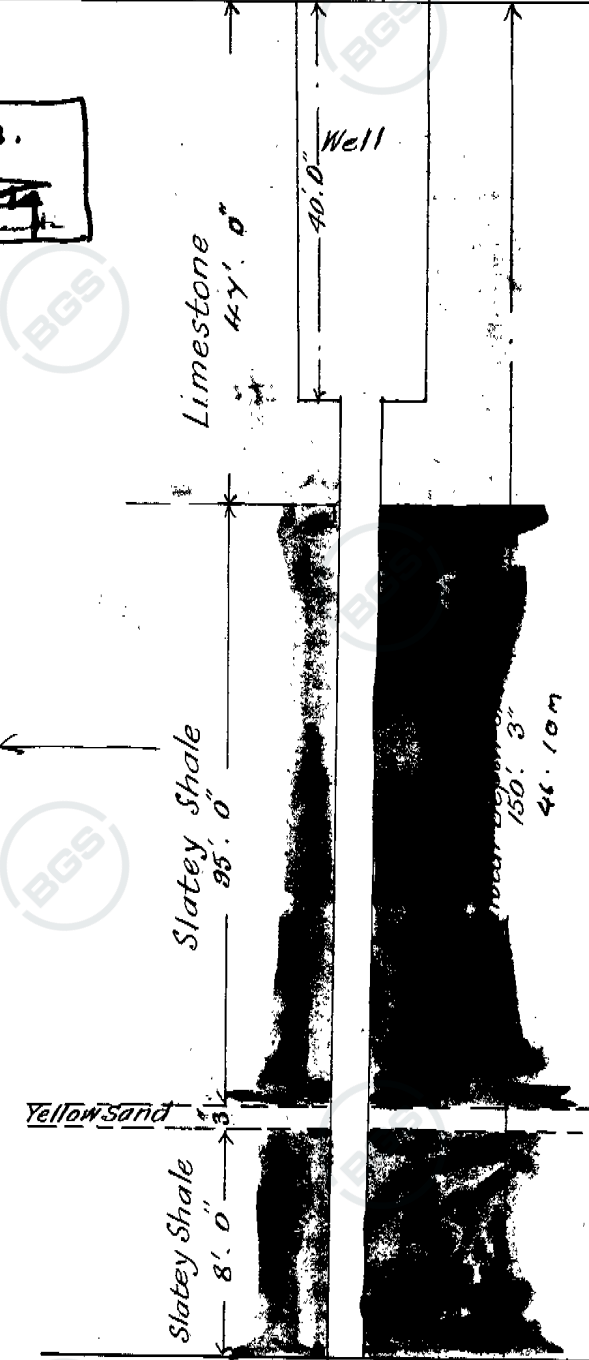
at Scampton Cliff Farm - at the Farm, and partly at N.W. corner of farm

Surface level about 220' O.D.

See G.S.M.
~~6469~~
6469 & Scampton

47.0

Mass, but does not show the sand.



Limestone Limestone

Prob. no "Nantwistle Sands & Ironstone" - as such - replaced by clay [Geology in Norfolk, 1910 p. 490]

Probably all upper lies (except with some thin 30' of clay replacing Nantwistle Sands & Ironstone) (Geology in Norfolk)

Probably Middle Lias ("a strongly bedded lias" - The lias of Norfolk, 1910 p. 90; see also Reports, xii (See over) p. 107)

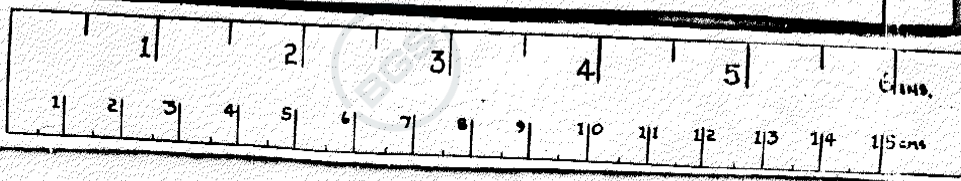
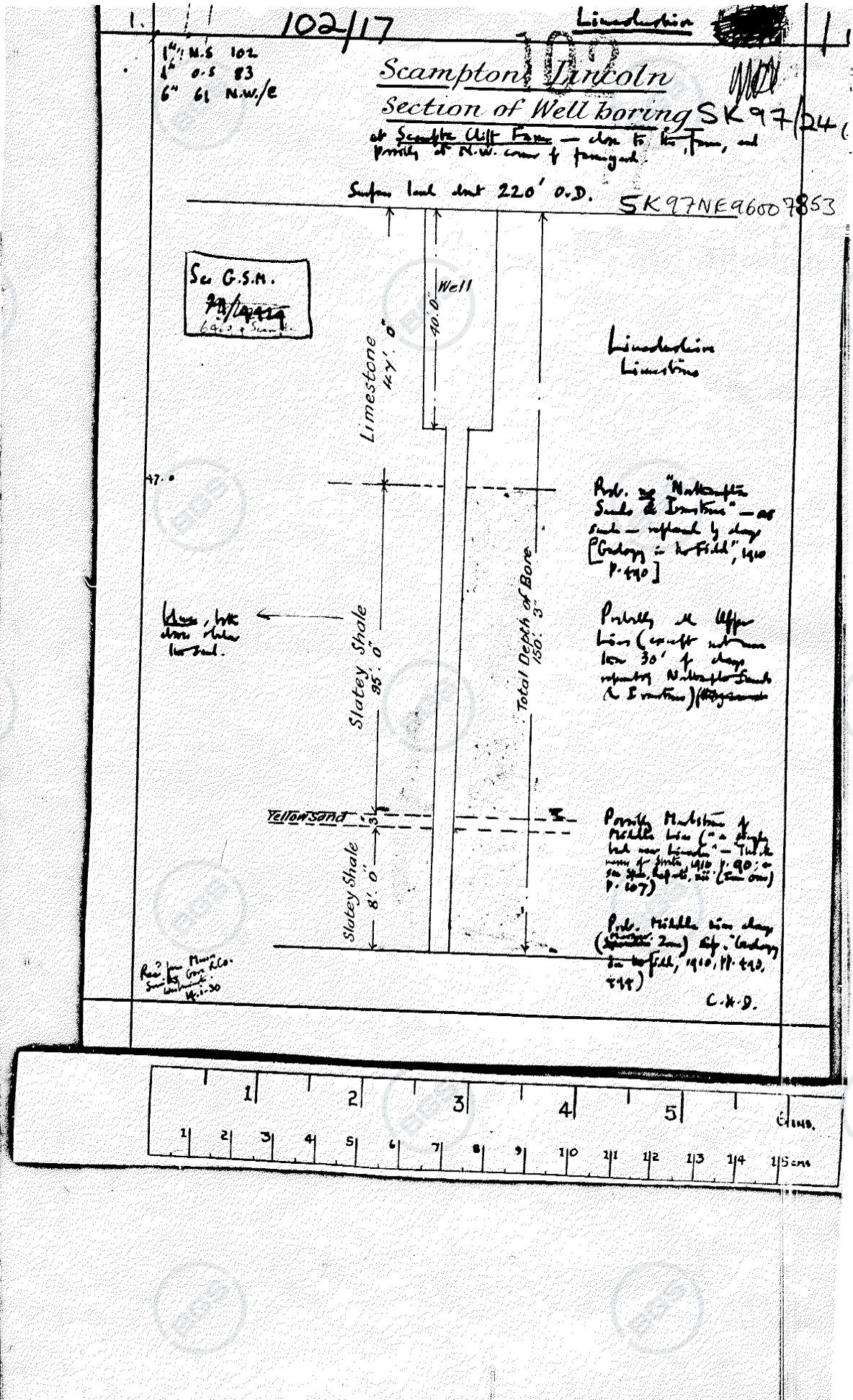
Prob. Middle lias clay (See over 2m) etc. (Geology in Norfolk, 1910, p. 493, 494)

C.K.D.

Rec'd from Messrs Smith's Co. 1/1-30

2. 26

A. Ditched and site checked on 6" lines to NW
- Disused and partly filled in by Air Ministry -
now on Scampton airfield
O.D. 220'
B. Well with pump near farm cottages
Disused → P.M.C. 4/4/57



Annex C Zetica UXO Map

UNEXPLODED BOMB RISK MAP



SITE LOCATION

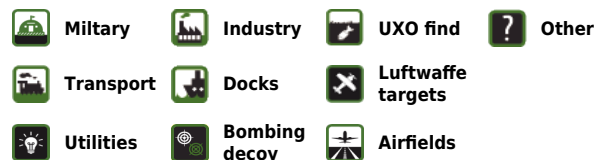
Location: DN3 1ET,
Map Centre: 460676,409683



This map principally indicates a hazard from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.



How to use your Unexploded Bomb (UXB) risk map?

This map indicates the potential for UXBs to be present because of World War Two (WWII) bombing. It can be incorporated into a technical report, such as a Phase 1 Desk Study, or similar document as an indication of the potential for UXO encounter on a Site. Other sources of UXO may also be indicated, although note that these are not comprehensive and more detailed research is required to confirm their presence.

What if my Site is in a moderate or high density area?

We typically recommend that a detailed UXO desk study and risk assessment is undertaken for sites in an area with a moderate or high bombing density. Additionally, if your site is in close proximity to a strategic target, military establishment, airfield or bombing decoy, then [additional detailed research](#) is recommended.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirm that there is a low potential for UXO to be present on your site, then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

If you are unsure whether other sources of UXO may be present, you can request one of our [pre-desk study assessments \(PDSA\)](#) by emailing a site boundary and location to uxo@zetica.com.

You should never plan site work or undertake a risk assessment using these maps alone. More detail is required, to include an assessment of the likelihood of a source of UXO hazard from other military activity not reflected on these maps.

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682 email: uxo@zetica.com web: www.zeticauxo.com

The information in this UXB risk map is derived from a range of sources and should be used with the [accompanying notes on our website](#).

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgement. The copyright remains with Zetica Ltd.

Annex D Photographic Records

Client Name: Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No. 1** **Date:**
12/01/2024**Direction Photo Taken:** North**Description:**
Open agricultural fields.**Photo No. 2** **Date:**
12/01/2024**Direction Photo Taken:** East**Description:**
Open agricultural fields.

Client Name: Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No. 3** **Date:** 12/01/2024**Direction Photo Taken:** Northeast**Description:**
Open agricultural fields.**Photo No.4** **Date:** 12/01/2024**Direction Photo Taken:** West**Description:**
Drainage ditch along perimeter of open agricultural fields.

Client Name: Fenwick Solar Project Limited

Site: Fenwick Solar Farm

Project No. 60698207

Photo No. 5 **Date:** 12/01/2024

Direction Photo Taken: South

Description:

Open agricultural fields and electrical pylons in the background (off site).



Photo No. 6 **Date:** 12/01/2024

Direction Photo Taken: East

Description:

Agricultural fields and wooded areas (off-site). Electrical pylons in the background.



Client Name: Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No. 7** **Date:** 12/01/2024**Direction Photo Taken:** Southeast**Description:**
Open agricultural fields.**Photo No. 8** **Date:** 12/01/2024**Direction Photo Taken:** South**Description:**
Farm building housing cattle.

Client Name: Fenwick Solar Project Limited

Site: Fenwick Solar Farm

Project No. 60698207

Photo No. 9 **Date:** 12/01/2024

Direction Photo Taken: South

Description:
Open grass fields.



Photo No. 10 **Date:** 12/01/2024

Direction Photo Taken: Southeast

Description:
Trumfleet Power Station, with a series of back up diesel generators.



Client Name: Fenwick Solar Project Limited

Site: Fenwick Solar Farm

Project No. 60698207

Photo No. 11 **Date:** 12/01/2024

Direction Photo Taken: South

Description:

Trumfleet Power Station (UK Power Reserve Limited) with a series of back up diesel generators and electrical transformers.



Photo No. 12 **Date:** 12/01/2024

Direction Photo Taken: Southeast

Description:

Two diesel aboveground storage tanks (ASTs) in the Trumfleet Power Station.



Client Name: Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No.** 13 **Date:** 12/01/2024**Direction Photo Taken:** Northwest**Description:**

Marsh Road with fields in background and a telegraph pole.

**Photo No.** 14 **Date:** 12/01/2024**Direction Photo Taken:** Northwest**Description:**

Marsh Road with fields in background.



Client Name: Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No.** 15 **Date:** 12/01/2024**Direction Photo Taken:** North**Description:**

Marsh Road with fields either side of road and telegraph poles in background.

**Photo No.** 16 **Date:** 12/01/2024**Direction Photo Taken:** Southeast**Description:**

Field containing livestock (public right of way) with private house in background.



Client Name: Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No. 17** **Date:** 12/01/2024**Direction Photo Taken:** North**Description:**

Field (public right of way) and electrical pylon in background (on western boundary of Section C).

**Photo No. 18** **Date:** 12/01/2024**Direction Photo Taken:** Southwest**Description:**

Entrance to Public Right of Way with a drainage ditch to the northeast and agricultural fields to the south.



Client Name: Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No.** 19**Date:** 12/01/2024**Direction Photo Taken:** Southwest**Description:**

Public Right of Way with a drainage ditch to adjacent and agricultural fields to the south.

**Photo No.** 20**Date:** 12/01/2024**Direction Photo Taken:** South**Description:**

Thorpe Bank (road) and agricultural fields in the background.



Client Name: Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No.** 21 **Date:** 12/01/2024**Direction Photo Taken:** Southeast**Description:**

Thorpe Bank (road) and grass fields in the background.

**Photo No.** 22 **Date:** 12/01/2024**Direction Photo Taken:** South**Description:**

Thorpe Bank (road) and agricultural fields in the background and sheet piled river wall to the west (adjacent to River Don).



Client Name: Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No.** 23 **Date:** 12/01/2024**Direction Photo Taken:** West**Description:**

Former Thorpe Marsh Power Station (under demolition).

**Photo No.** 24 **Date:** 12/01/2024**Direction Photo Taken:** West**Description:**

Former Thorpe Marsh Power Station (under demolition), the active National Grid electrical substation is in the background.



Client Name: Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No.** 25 **Date:** 12/01/2024**Direction Photo Taken:** West**Description:**

Fordstead Lane with fields adjacent, these were flooded at the time of the site visit.

**Photo No.** 26 **Date:** 12/01/2024**Direction Photo Taken:** West**Description:**

River (full) receding from previous flood with agricultural fields adjacent (north) and fields and Fordstead Lane (south).



Client Name: Fenwick Solar Project Limited**Site:** Fenwick Solar Farm**Project No.** 60698207**Photo No. 27** **Date:** 12/01/2024**Direction Photo Taken:** West**Description:**

Fordstead Lane with fields adjacent (south), these were flooded at the time of the site visit.





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