

ENVIRONMENT

Richborough Estates Ltd and Mr. and Mrs. Adcock
Hinckley North
Hinckley
Phase 1 Geo-Environmental Assessment



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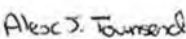
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January 2022

DOCUMENT ISSUE RECORD

Document Number:	HIN-BWB-ZZ-XX-RP-YE-0001_Ph1
BWB Reference:	210683

Rev.	Date of Issue	Status	Author:	Checked:	Approved:
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EXECUTIVE SUMMARY

Executive Summary	
Site Address	Land off Normandy Way (A47), Hinckley, LE10 1YG
Proposed Development	The proposed development is anticipated to comprise for the erection of 475 dwellings with associated parking and means of access in addition to a school.
Current Site Use	The site is currently utilised as arable agricultural land, with public footpaths crossing the site. There is access from public footpaths, from Stoke Road and Normandy Way (A47). The surface cover is predominantly grass with mature trees and hedgerows around the field. Stockpiles of rubble were noted centrally on site. A pond was situated in a dense cluster of trees in the north of the site, and a basin feature towards the centre of the site was located within dense vegetation.
Site History	The site has been utilised for agricultural purposes throughout the mapping period reviewed. A farm was located centrally on site until c. 1950s. The surrounding area south of the site has had substantial development from 1886-2022, with the east, west and north remaining sparsely populated and largely agricultural land.
Ground Conditions	The site is directly underlain by superficial deposits Bosworth Clay Member (Unproductive Aquifer); Oadby Member (Secondary Undifferentiated Aquifer); Wolston Sand and Gravel and Alluvium (both Secondary A Aquifers); overlying Mercia Mudstone Group bedrock (Secondary B Aquifer). Topsoil is present across the site. The site is not indicated to be within, or within close proximity to an EA groundwater Source Protection Zone. A historical groundwater abstraction is recorded on site for general farming and domestic use. The closest surface water feature to the site is the Tweed River tributary, along the eastern boundary of the site as well as the small ponds in the north and centre of the site. There is a pond recorded adjacent to the west of the site boundary and another tributary of the Tweed River to the northwest of the site. There is a moderate risk of groundwater flooding within 50m of the site.
Geotechnical Review	The Groundsure Report indicates a moderate risk with regard to compressible deposits on site where the Alluvium and Bosworth Clay Member are present and a negligible risk for the rest of the site. Based on the proposed residential development at the site, shallow strip foundations bearing into the superficial deposits are likely to be suitable for lightly loaded structures. Deeper foundations may be required in areas where Alluvium and Bosworth Clay are present due to the moderate compressibility. Mature trees were situated on site. Foundations near new or existing trees may need to be locally deepened beyond the zone of influence of tree roots and/or heave precautions adopted.
Environmental Review	Limited sources of potential contamination have been identified at the site, resulting in a Moderate and Moderate to Low risk to human health which is mainly driven by the potential for asbestos contamination in the area of the former farm and ground gas from superficial Alluvial deposits. The risk posed to controlled waters is predominantly considered to be Low due to the sensitivity of the underlying Secondary A and B Aquifers and the lack of any significant contamination source.
Recommendations	A ground investigation should be undertaken at the site to confirm ground conditions at the site, assess the ground gas regime, allow for in-situ and laboratory testing to inform foundation design.



This summary should be read in conjunction with BWB's full report (ref. HIN-BWB-ZZ-XX-RP-YE-0001_Ph1) and reflects an assessment of the site based on information received by BWB at the time of production.

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1. INTRODUCTION

Instruction

- 1.1 BWB Consulting (BWB) was instructed by Richborough Estates Ltd and Mr. and Mrs. Adcock (the Client) to carry out a Phase 1 Geo-Environmental Assessment for the site at Hinckley North, Hinckley. Details of the project brief are included in BWB proposal reference 211117/ R1/210683/SN/HW, dated 17/11/21.
- 1.2 The proposed development is anticipated to comprise erection of 475 dwellings with associated parking, a school and all access routes, highways and pavements, to and around the site.
- 1.3 The proposed development site layout is presented as **Appendix 1**.

Objectives

- 1.4 This report has been completed to present pertinent information into the environmental risks and liabilities associated with the site. It has been completed to fulfil the requirements of a preliminary risk assessment in accordance with BS 10175:2011+A2:2017 '*Investigation of potentially contaminated sites, code of practice*' and EA Guidance on Risk Management of Land Contamination <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>.
- 1.5 The report has also been prepared with reference to land contamination technical guidance available through <https://www.gov.uk/government/collections/land-contamination-technical-guidance>.
- 1.6 The objectives of this report are to:
 - Assess historical activities at the site with respect to their potential impact on the site environment;
 - Characterise the environmental setting of the site, identify migration pathways and vulnerable receptors for contamination originating at the site, focusing on potential soil and groundwater liabilities;
 - Assess historical and current surrounding land use in relation to known or potential off-site contamination issues that may impact the site;
 - Review existing site investigation and remediation information for the site, where available;
 - Develop a preliminary Conceptual Site Model (CSM); and
 - Assess potential environmental liabilities associated with the site.

Scope of Work

- 1.7 The Scope of Work included:

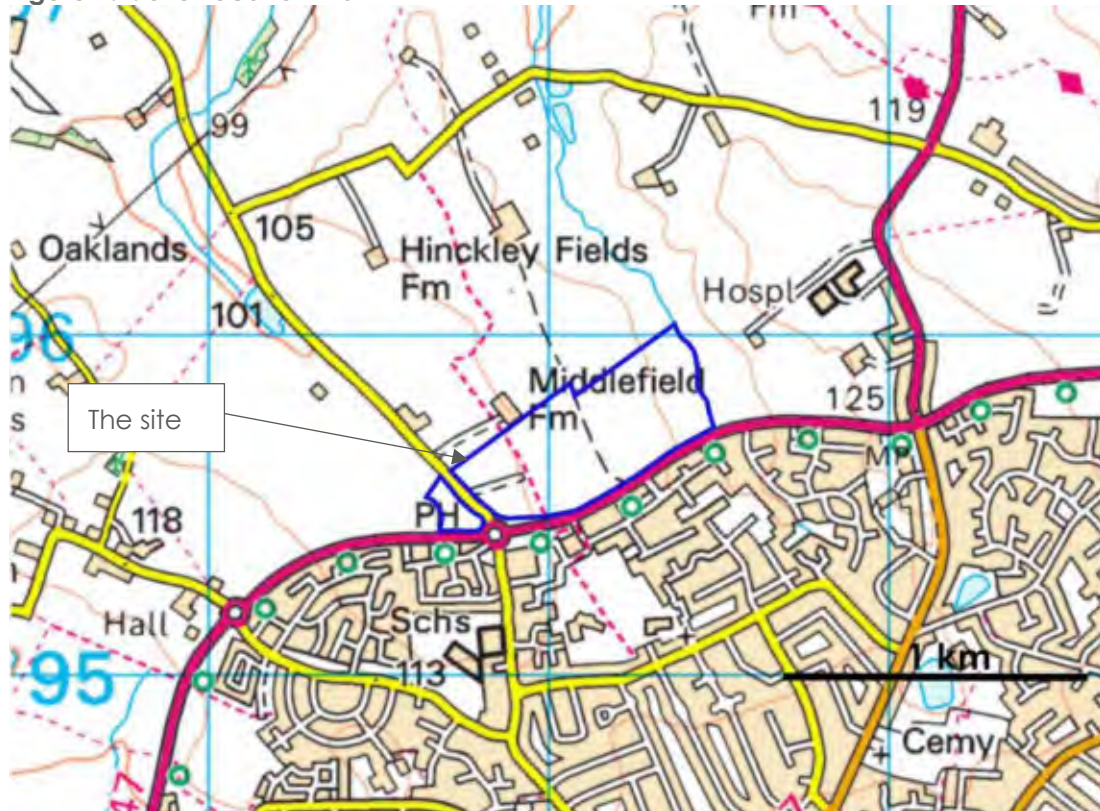
- A site visit to inspect the current site and immediate surroundings, identify potential hazards associated with ground conditions or contamination and to determine potential constraints with regards to ground investigation (photographs presented as **Appendix 2**);
- A review of the following information:
 - Groundsure Report, reference HMD-214-8446661 (**Appendix 3**);
 - Historical Ordnance Survey Mapping (**Appendix 4**);
 - Historical aerial photographs (Google Earth) and other imagery (Groundsure);
 - BGS online geological maps and exploratory hole records (www.bgs.ac.uk);
 - Regional unexploded bomb risk maps
- A summary of the key hazards or uncertainties that require additional investigation in order to further characterise the associated risks; and
- Production of a Geo-Environmental Assessment (this report), concluding in a qualitative assessment of the risks from contamination and ground-related constraints which may impact on the site.

2. THE SITE

Site Location

- 2.1 The site is located at the A47, in Hinckley, centred at National Grid reference 442087 295663. The approximate location of the site is shown below in **Figure 2:1**.

Figure 2:1: Site Location Plan



Site Description

- 2.2 The site comprises of an irregular shape plot of land covering approximately 25 hectares to the north of Hinckley. The topography of the site is generally low lying with a slight hill in the centre. There is a 12m increase in elevation from the eastern boundary (c. 105m above ordnance datum (AOD)) to the site centre (117m AOD), with the south western boundary at c.110m AOD.
- 2.3 The current layout of the site and the main site features identified are shown on **Drawing 1**.

Site Walkover

- 2.4 A site walkover completed on 17/01/2022 by a representative of BWB. Photographs from the walkover are presented in **Appendix 2**.

- 2.5 At the time of the walkover, the site comprised of two areas, one either side of Stoke Road.
- 2.6 The site is currently utilised as arable agricultural land, with public footpaths crossing the site. There is access from public footpaths, from Stoke Road and Normandy Way (A47).
- 2.7 The surface cover is 95% grass and 4% mature trees and hedgerows. 1% (centre site, area of the depression, stockpiles and rubble) has small sections of cobbled pavement with grass growing around it. The ground was uneven, with a slight high point at the site centre which had gentle slopes to east (approximately 5°) and west of site (approximately 5°-10°)
- 2.8 There are several mature trees and continuous hedgerows present around the edges of the field plots. The hedgerows were generally bare. There were no invasive species observed on site at the time of the walkover. A pond to the north was situated in a dense cluster of trees and a basin feature towards the south of the site was located within dense vegetation.
- 2.9 A depression at the site centre had an area of standing water. No other areas of standing pools of water were visible on the site and the ground was firm. The area of the depression contained stockpiles of rubble, old car tyres and a wall.
- 2.10 There were two ditches opposite each other at the public footpath entrance off Normandy Way (A47).
- 2.11 At the eastern boundary of the site, the Tweed River tributary water level was observed to be low with water at a trickle with high banks. Brambles were overhanging the stream and the ground was firm on the river bank.

Potential Constraints to Ground Investigation

- 2.12 Overhead electricity lines are present on the site. Appropriate stand-off distances would have to be observed during any intrusive ground investigation.
- 2.13 Uneven ground may be unsuitable for some vehicles.

Site Surroundings

- 2.14 At the time of the walkover, the site was observed to be surrounded by commercial and residential properties to the south, with predominantly agricultural land to the north, west and east. There are several farms located to the north of the site. A tributary of Tweed River is located along the eastern boundary of the site. The corrugated barn roof on the farm to the north of the site was possibly constructed out of asbestos containing materials.
- 2.15 An aerial photograph representative of the site and surroundings, dated 16/04/2020, is presented as **Figure 2:2**.

Figure 2:2: Aerial Photograph



3. ANTICIPATED GROUND CONDITIONS

- 3.1 The anticipated ground conditions for the site and controlled waters vulnerability is discussed within **Table 3:1**.

Table 3:1: Summary of Anticipated Ground Conditions

Anticipated Ground Conditions	
Geology	Information published by the BGS indicates that the site is directly underlain by the Bosworth Clay Member (clay and silt); Wolston Sand and Gravel; Oadby Member (Diamicton) and Alluvium (clay, silt, sand and gravel) superficial deposits, overlying Mercia Mudstone Group bedrock. Topsoil is present across the site. The BGS Lexicon database describes the Wolston Sand and Gravel superficial deposit as sand and gravel, locally with lenses of silt, clay or peat; the Oadby Member superficial deposits as Diamicton, grey, weathering brown, characterised by Cretaceous and Jurassic rock fragments; subordinate lenses of sand and gravel, clay and silt. Clay, brown to grey, and silty clay, with chalk and flint fragments. The Bosworth Clay Member comprises clay and silt, glaciogenic in origin. BGS borehole logs present 300m south of the site (SP49NW37) recorded 0.9m of Made Ground underlain by glacial deposits (stiff clay and fine to medium sand) to 4mbgl. BGS borehole (SP49NW25) present 50m south east of the site recorded 0.25m of topsoil underlain by a firm to stiff, brown and grey mottled clay with traces of vegetation, gravel and sand to 3mbgl. From 3mbgl to 10mbgl a stiff to very stiff, sienna brown silty clay, with pockets of golden sand was recorded. A slight water seepage was recorded at 1.5mbgl.
Hydrogeology	The Environment Agency (EA) classifies the Bosworth Clay Member as an Unproductive Aquifer, the Alluvium and Wolston Sand and Gravel as Secondary A Aquifers and the Oadby Member as an undifferentiated Secondary Aquifer. The bedrock is classed as a Secondary B Aquifer. BGS borehole (SP49NW25) recorded slight water seepage at 1.50m. A historical groundwater abstraction (ref. 07/04/1965) is recorded on site. This abstraction is recorded as a well utilised for general farming and domestic use at Hinckley Fields Farm, Hinckley for J Adcock and Sons. A further two historical groundwater abstractions located 318m east and 334m east of the site. The site is not indicated to be within, or within close proximity to an EA groundwater Source Protection Zone.
Surface Waters	The closest surface water feature to the site is the tributary of the Tweed River, along the eastern boundary of the site. There is a pond recorded adjacent to the west of the site boundary and another tributary of the Tweed River to the northwest of the site. The Ashby-de-la-Zouch Canal is approximately 1.5km from the west of the site. There was standing water in the depression area in the central west area of the site. The Tweed River tributary water at the eastern boundary was clear, had a gentle flow and a low level. Pollution incidents relating to surface waters are summarised in Section 5. There is a moderate risk of groundwater flooding within 50m of the site.
Ground Gas & Radon	Less than 1% radon is present within 250m of the site. Radon protection measures are not required as part of the proposed development. The Alluvium represents a potential source of ground gas which could impact on future site users.

Anticipated Ground Conditions	
Mining and Mineral Extraction	There are no records of natural cavities or BritPits within 500m of the site. There are no records of underground workings within 1000m of the site and no records within 500m of the site of historical mineral planning areas. No coal, tin, gypsum, clay or non coal mining areas are present nor are any brine areas, JPB mining areas or mining cavities are indicated near to the site.
Environmental Sensitivity	The site is indicated to be within nitrate vulnerable zones and SSSI impact risk zones There are no records of SSSI units within 2km of the site.

4. SITE HISTORY

- 4.1 Historical Ordnance Survey (OS) mapping for the site area has been reviewed. These maps and plans date from 1886 to 2022. The historical plans reviewed are provided in **Appendix 4**. The key points of the historical development of the site and surrounding area are summarised in **Table 4.1**. All distances quoted are approximate.

Table 4.1: Key Points of Development History

Dates	On Site	Off-Site
1886 -1938	The site comprises of predominantly of agricultural land, with several field boundaries and footpaths mapped across the site. There is one farm on the site (Neale's Farm). The site is separated into two areas by a road in the west (Stoke Lane). Middlefield Lane enters the site on its southern boundary and crosses through its centre. There is one small pond situated to the north of the site and a slightly larger pond located towards the south of the site.	Sparsely populated (minor residential development) and largely agricultural land.
1950	No change noted.	Light residential development 500m to the south of the site. Sparsely populated and largely agricultural land to the north, east and west of the site. There are roads surrounding the site.
1963-1968	No change noted. Farm identified as Hinkley Fields Farms.	Moderate to heavy residential development to the south of the site. No change noted to the roads, population size and location of agricultural land north, east and west of the site.
2003	Overhead electricity lines present at the south of the site.	Drain present just outside the southern site boundary.
2001 - 2022	The farm is no longer shown to be present on site on 2001 mapping.	Heavy residential development to the south of the site. No change noted to the roads, population size and location of agricultural land north, east and west of the site.

Historical Aerial Photography and Imagery

- 4.2 Aerial imagery and photographs available through Google Earth and included within the Groundsure Report, dated from 1999 to 2020 shows the site as undeveloped agricultural land with trees and hedgerows present.

Operational / Company Records

- 4.3 No operational records have been made available for review as part of this assessment.

Planning History

- 4.4 The Hinckley and Bosworth Borough Council Planning Portal was accessed on 15/01/2022 and indicated that no planning applications have been submitted for the site.

Previous Site Investigation

- 4.5 No previous investigation reports were available for review.

Summary of Site History

- 4.6 Historical mapping shows the site as undeveloped agricultural land with two small ponds, trees and hedgerows present. Farm buildings are located centrally on site until the 1950s.
- 4.7 The surrounding area south of the site has had substantial development from 1886-2022, with the east, west and north remaining sparsely populated and largely agricultural land.

5. REGULATORY SETTING

Permits Consents and Authorisations

- 5.1 A full listing of permits, consents and authorisations including discharge consents, pollution incidences and other environmental information, is included in the Groundsure Report, presented in **Appendix 3**.
- 5.2 No significant features have been identified which are considered likely to have had a detrimental impact on the site.

Landfilling and Waste Management

- 5.3 A full listing of EA, BGS and Local Authority recorded landfills are provided in the Groundsure Report presented in **Appendix 3**.
- 5.4 The following facilities have been identified which have the potential to have a detrimental impact on site.
- 5.5 Relevant waste management identified within 500m of the site is detailed in **Table 5:1**.

Table 5:1: Waste management

Name	Category	Distance from Site	Details
Hinckley & Bosworth B C	Licenced waste site	279m SE	Household, Commercial & Industrial Waste Transfer Station.
Middlefield Farm, Stoke Road, Hinckley, LE10 3EA	Waste exemption	11m NW	Treating, storing, disposing of and using waste exemption

6. GEOTECHNICAL APPRAISAL

- 6.1 The Groundsure Report, site history, current site setting and geology setting have all been considered in order to provide an indication of the potential ground related constraints and opportunities in the context of the proposed development as set out in **Table 6:1**.

Table 6:1: Ground Related Constraints & Opportunities

Potential Constraint / Opportunity	Explanation	Potential Mitigation Options
Topsoil	Topsoil is present across the site.	Topsoil may be suitable for reuse on site, subject to confirmation of chemical status and engineering properties via ground investigation, and confirmation of potential restrictions on reuse associated with waste management licencing.
Preliminary Foundation Solution	Based on the proposed residential development at the site, shallow strip foundations bearing into the superficial deposits are likely to be suitable at the site for lightly loaded structures.	Ground investigation should be undertaken to confirm ground conditions at the site and allow for in-situ and laboratory testing to inform foundation design.
Buried Obstructions	Given the historical uses of the site there is limited potential for buried obstructions such as services and former foundations, however these may be present in the area where the farm has historically been present.	Buried obstructions may require removal from site within areas of proposed development.
Trees	Mature trees noted on site, with several along most of the site boundaries and scattered around the site.	Foundations in close proximity to new or existing trees may need to be locally deepened beyond the zone of influence of tree roots and/or heave precautions adopted.
Drainage and Soakaways	Soakaways may be a viable option at the site Where granular superficial deposits are present.	Should soakaways be considered as part of the drainage strategy, it is recommended that infiltration testing in accordance with current guidance is undertaken.
Natural ground subsidence	The Groundsure Report indicates a very low to negligible risk for shrinking and swelling clays, running sands, slope stability and ground dissolution. The Groundsure Report indicates a moderate risk	No further assessment required for shrinking and swelling clays, running sands, slope stability and ground dissolution. Regarding compressible deposits consider possibility of

Potential Constraint / Opportunity	Explanation	Potential Mitigation Options
	regarding compressible deposits on site where the Alluvium and Bosworth Clay Member are present and a negligible risk for the rest of the site.	settlement during construction due to compressible deposits.
Roads and Pavements	California Bearing Ratio (CBR) values should be sought for road, car park and pavement design.	In-situ testing should be undertaken to infer CBR values. Furthermore, geotechnical testing should be undertaken to provide consistency of results.
UXO	Review of the unexploded ordnance risk maps available online indicates the site to be in an area of low risk from UXO.	No further assessment required.

7. PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT

Introduction

- 7.1 The risk posed by any contaminants in soil or groundwater will depend on the nature of the hazard, the probability of exposure, the pathway by which exposure occurs, and the likely effects on the receptors. A contaminant is defined as a substance that has the potential to cause harm, while a risk is considered to exist if such a substance is present in sufficient concentration to cause harm and a pathway exists for a receptor to be exposed to the substance.
- 7.2 Three impact potentials exist for any given site, all of which need to be considered in a risk assessment, which are:
- The site impacting upon itself;
 - The site impacting on its surroundings; and
 - The surroundings impacting on the site.
- 7.3 The following sections discuss all the identified potential on and off-site sources, pathways and receptors in the context of the proposed development and plausible pollutant linkages which may represent a risk to identified receptors such as human health and/or controlled waters from the data gained from the desk study.
- 7.4 The assessment is qualitative and aimed to determine all likely pollutant linkages, with consideration of significance and allowing for uncertainties.
- 7.5 **Sources (S):** These are potential or known sources of contamination that may relate to a former land use or present site feature or process (e.g. fuel storage tanks).
- 7.6 **Pathways (P):** A pathway is defined as a mechanism or route by which a contaminant comes into contact with, or otherwise affects a receptor. Pathways by which the identified receptors may be impacted upon in the context of the proposed development.
- 7.7 **Receptors ®:** Receptors are defined as people, living organisms, ecological systems, controlled waters, atmosphere, structures and utilities that could be adversely affected by contaminant(s).

Conceptual Site Model

- 7.8 Consideration has been given to the likely sources, pathways and receptors which may be present, based on the information in the previous sections. These are presented in **Table 7:1** and **Table 7:2** and further information about the risk classification scheme is included within **Appendix 5**, with reference to CIRIA C552 '*Contaminated land risk assessment - a guide to good practice*'.
- 7.9 A tabulated version of the Preliminary CSM based on the desk study and site observations is presented in **Table 7:3**.

Table 7.1: Potential Sources of Contamination

Location	Potential Source	Contaminants of Potential Concern (CoPC)
On-site	Contamination associated with farm buildings and former arable agricultural activities undertaken at the site. Potential organic rich Alluvium	• Pesticides and herbicides • Asbestos Containing Materials (ACMs) • Heavy metals • Hydrocarbons • Methane and carbon dioxide
Off-site	Contamination associated with neighbouring development and agricultural land uses. Potential ACMs along northern boundary.	• Asbestos Containing Materials (ACMs) • Heavy metals • Hydrocarbons • Methane and carbon dioxide

Table 7.2: Relevant Potential Pathways and Receptors

Receptors	Pathways
Human Health: • Future site users (residential/school workers and pupils) • Neighbouring public (residential/ recreational) • Intrusive maintenance workers	• Dermal contact with soil or dust • Incidental ingestion of soil and/or dust • Inhalation of dust and/or fibres • Ingestion of contaminated vegetables and/or soil attached to vegetables • Migration and accumulation of ground gas in enclosed spaces leading to inhalation or explosion
Controlled Waters: • Groundwater (Secondary A and B Aquifers beneath site) • Surface water (tributary of Tweed River along eastern boundary and ponds)	• Leaching of soil contaminants • Vertical and lateral migration • Surface run-off
Property: • Underground utilities • Building structures	• Direct Contact

Table 7:3: Preliminary Conceptual Site Model

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
On-site sources as detailed in Table 7:1 .	Dermal contact with, and incidental ingestion of soil and/or dust. Inhalation of dust and/or fibres.	Future site users (residential/school workers and pupils)	Md	UI	L	As part of the proposed development, it is anticipated that hardstanding will be present across most of the site. This will limit the potential for direct contact with and minimise dust generation from potentially contaminated soils at the site post construction. In public open space and garden areas the provision of a clean capping layer would restrict direct access to potentially contaminated soils. It is recommended that an intrusive ground investigation be completed to assess the extent of any potential contamination at the site.
		Intrusive maintenance workers	Md	UI	L	The exposure of intrusive maintenance workers can be mitigated by the adoption of suitable working methods, utilising appropriate personal protective equipment (PPE) and maintaining good hygiene. If significant asbestos is recorded, the requirements of the Control of Asbestos Regulations (CAR) 2012 should be complied with.
	Ingestion of contaminated vegetables and/or soil attached to vegetables.	Future site users (residential/school workers and pupils)	Md	UI	L	In garden areas and where there is the potential for allotments, the provision of a clean capping layer would with appropriate demarcation at depth would limit the potential for vegetables to be grown in potentially contaminated soils.
	Asbestos Containing Materials (ACMs)	Future site users (residential)	Sv	Lw	M	There is potential for ACMs within the stockpiles and within the soils surrounding the former farm buildings. The risk should be quantified by intrusive investigation and laboratory analysis.
	Migration and accumulation of ground gases in enclosed spaces leading to asphyxiation (carbon dioxide) or explosion (methane).	Future site users (residential)	Md	Li	M	Alluvium is reported to be present at the eastern boundary of the site, which may contain organic material. The presence of the above indicates a potential risk from ground gases. Ground investigation should include the installation of ground gas monitoring wells to determine the risk posed from ground gases.
	Leaching and permeation through soil profile.	Groundwater (Secondary A and	Md	UI	L	

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
	Vertical and lateral migration of contaminants.	B Aquifers beneath site)	Md	UI	L	No groundwater or surface water data is currently available for the site. The ground investigation should seek to quantify the risk to controlled waters.
	Surface run-off	River Tweed tributary and ponds	Md	UI	L	The recommendations of DEFRA and EA guidance document 'Pollution prevention for businesses' should be considered during construction.
	Direct contact.	Water utility pipes	Md	UI	L	Organic compounds in the shallow soils could taint the water supply. A ground investigation and subsequent laboratory analysis should be undertaken to inform the design of new services.
		Buried structures/foundations.	Md	UI	L	Sulphates and low pH in the ground could accelerate the degradation of buried concrete structures (e.g., foundations). Ground investigation should include an assessment of the concrete design class.
	Asbestos Containing Materials (ACMs)	Future site users (residential)	Sv	Lw	M	Whilst the roof on the adjacent barn did not appear in a state of disrepair, soil sampling should be undertaken around the area near the barn on the northern boundary suspected of containing asbestos.
	Migration and accumulation of ground gases in enclosed spaces leading to asphyxiation (carbon dioxide) or explosion (methane).	Future site users (residential)	Md	Lw	M/L	Ground gas monitoring should be completed as part of an intrusive ground investigation to characterise the ground gas regime at the site. Where possible, monitoring wells should be located along the site boundaries to delineate any potential contamination.
	Lateral migration of contaminated groundwater.	Groundwater (Secondary A and B aquifers beneath site)	Md	UI	L	A significant off site source has not been identified. The ground investigation should seek to quantify the risk to controlled waters.

Pollutant Linkage Assessment Summary

When considered in the context of the conceptual site model and the historical activities that have taken place both on site and the surrounding area, the proposed development is considered to pose a **Moderate** and **Moderate to Low** risk to human health. It is considered that the main driver for the risk rating for human health is the potential for ground gas from Alluvial deposits on site. Asbestos containing materials may be present in the area of the former farm on site.

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
The risk posed to controlled waters is considered to be Low due to the sensitivity of the underlying Wolston Sand and Gravel (Secondary A Aquifer) and the Mercia Mudstone bedrock (Secondary B Aquifer). It is recommended that a ground investigation be undertaken to quantify the identified pollutant linkages and assess likely mitigation measures.						

8. ENVIRONMENTAL LIABILITY ASSESSMENT AND DEVELOPMENT IMPLICATIONS

Statutory Liability

- 8.1 The contaminated land regime has implications for those who cause or knowingly permit land to be contaminated, or who own or occupy land that is contaminated. Contaminated land is defined in Section 78A(2) of Part IIA of the Environmental Protection Act 1990 as:

"Any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that:

- i. Significant harm is being caused or there is a significant possibility of such harm being caused; or*
- ii. Significant pollution of controlled waters is being caused or there is a significant possibility of such pollution being caused."*

- 8.2 Harm is defined in Section 78A(4) of the Environmental Protection Act 1990 as:

"Harm to the health of living organisms or other interference with ecological systems of which they form part and, in the case of man, includes harm to his property."

- 8.3 Once an area of land has been identified as contaminated land, appropriate persons will be identified as being responsible for the cost of cleaning up the land by the enforcing authority. The appropriate person will be liable for all or part of the remediation of the land. Two classes of appropriate person have been identified:

- Class A appropriate persons are those who cause or knowingly permit the pollutants to be in, on or under the land.
- Class B appropriate persons are the owners(s) or occupier(s) of the land.

- 8.4 Where no Class A appropriate persons can be identified, then Class B appropriate persons may become liable.

- 8.5 Based on the information available regarding the site, the potential for Statutory Authority action based on "pollution of controlled water" or "significant harm" as defined by Part IIA of the Environmental Protection Act 1990 is low.

Third Party Liability

- 8.6 Based on the information contained in this report, it is the opinion of BWB that the potential for legal action by surrounding landowners, based on the potential for contamination to migrate off-site, is low when considering limited historical activities that have been undertaken at the site.

Public Relations

- 8.7 The likelihood of public relations being tarnished due to contamination issues at the site are low.

Development Implications

- 8.8 It is recommended that soil samples are tested for asbestos in the site surrounding the former farm buildings in the central west of the site, and adjacent to the barn along the northern boundary.

9. CONCLUSION AND RECOMMENDATIONS

Conclusions

- 9.1 The site comprises of an irregular shape plot of land covering approximately 25 hectares to the north of Hinckley.
- 9.2 The proposed development is anticipated to comprise for the erection of 475 dwellings with associated parking, road and pavement infrastructure and a school.
- 9.3 The site has comprised undeveloped agricultural land with trees and hedgerows from circa 1886 to the present day. There was a farm present on the site from 1886 to 1980.
- 9.4 The site is directly underlain by superficial deposits Bosworth Clay Member (Unproductive Aquifer); Wolston Sand and Gravel and Alluvium (both Secondary A Aquifers); Oadby Member (Secondary Undifferentiated Aquifer), overlying Mercia Mudstone Group bedrock (Secondary B Aquifer). Topsoil is likely to be present across the site. The site is not indicated to be within, or within close proximity to an EA groundwater Source Protection Zone.
- 9.5 The closest surface water feature to the site is the Tweed River tributary, along the eastern boundary of the site. There is a pond adjacent to the west of the site boundary. There is a moderate risk of groundwater flooding within 50m of the site.
- 9.6 Limited sources of potential contamination have been identified at the site, resulting in a Moderate and Moderate to Low risk to human health which is mainly driven by the potential for asbestos contamination in the area of the former farm and ground gas from superficial Alluvial deposits. The risk posed to controlled waters is predominantly considered to be Low due to the sensitivity of the underlying Secondary A and B Aquifers and the lack of any significant contamination source.
- 9.7 The Groundsure Report indicates a moderate risk with regard to compressible deposits on site where the Alluvium and Bosworth Clay Member are present and a negligible risk for the rest of the site.
- 9.8 Based on the proposed development, it is considered that shallow spread foundations are likely to be suitable for lightly loaded structures. Deeper foundations may be required in areas where Alluvium and Bosworth Clay are present due to the moderate compressibility.

Recommendations

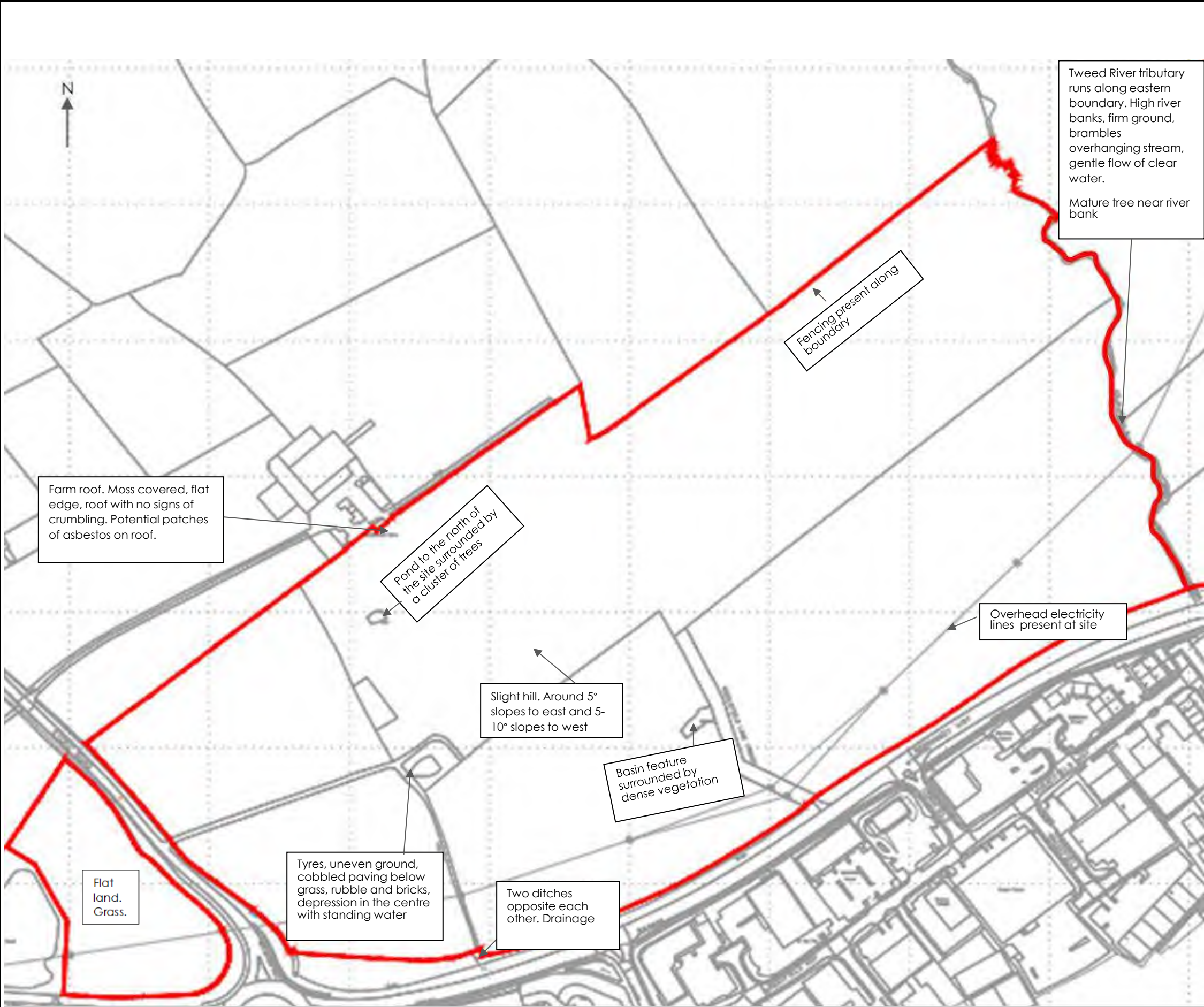
- 9.9 A ground investigation should be undertaken at the site to confirm ground conditions at the site, assess the ground gas regime, allow for in-situ and laboratory testing to inform foundation design.

10. REFERENCES

1. BS 10175:2011+A2:2017 Investigation of potentially contaminated sites. Code of practice. British Standards Institute, 2017.
2. CIRIA C552 *Contaminated land risk assessment. A guide to good practice*. Rudland, D J, Lancefield, R M, Mayell, P N, 2001.
3. Environmental Protection Act 1990: Part 2A, Contaminated Land Statutory Guidance. Department for Environment Food and Rural Affairs (DEFRA), 2012.
4. Land Contamination Risk Management. Environment Agency, 2020.
5. <https://www.gov.uk/government/collections/land-contamination-technical-guidance>.
6. The Control of Asbestos Regulations. Health and Safety Executive, 2012.

DRAWINGS

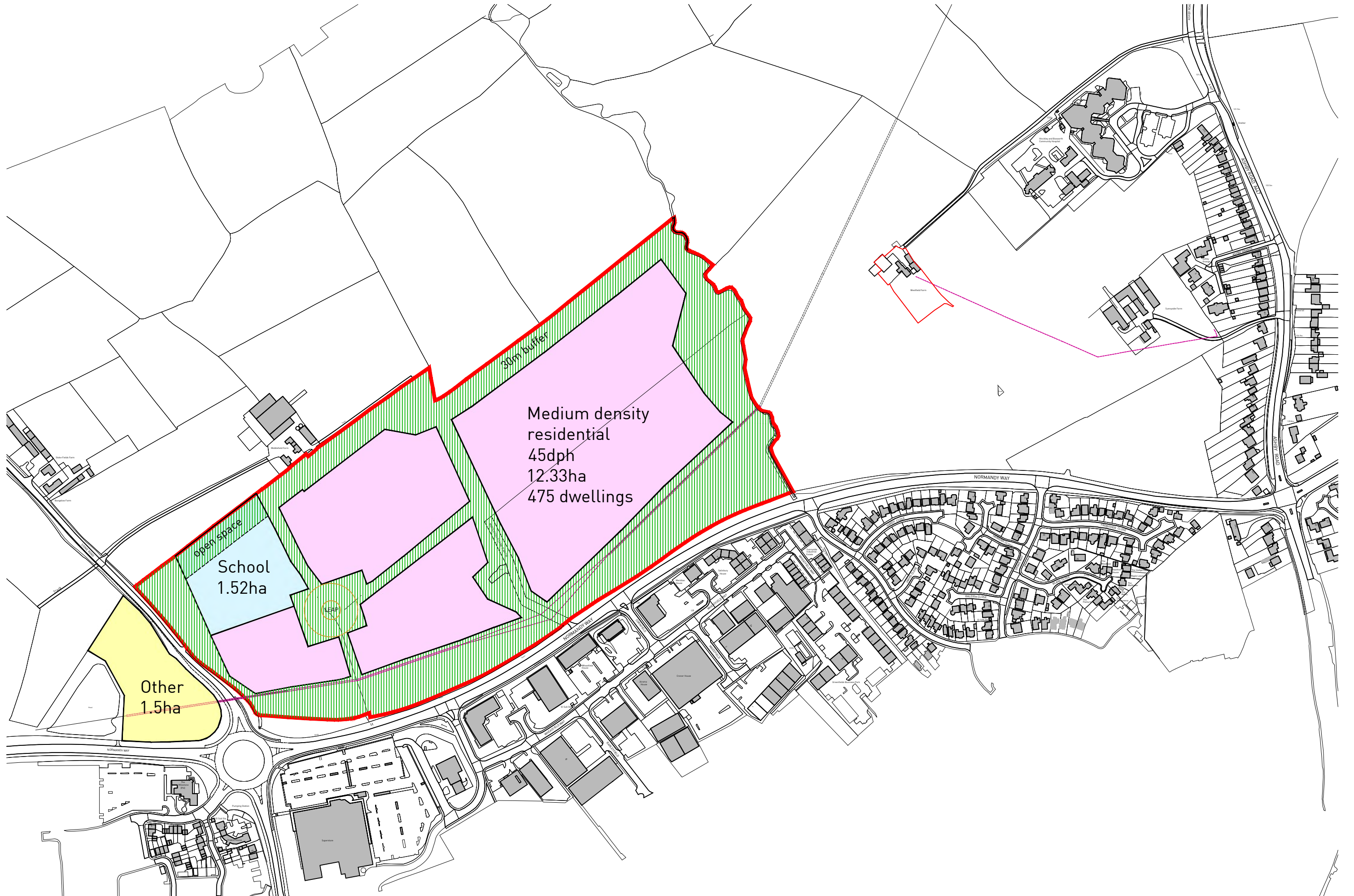
Drawing 1: Site Features Plan.



NOTES			
1. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS MUST BE CHECKED/ VERIFIED ON SITE. IF IN DOUBT ASK.			
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.			
3.ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL LEVELS IN METERS UNLESS NOTED OTHERWISE.			
4. ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.			
LEGEND			
BWB			
Building, Infrastructure and Environmental Consultancy			
5th Floor, Waterfront House, Station Street, Nottingham, NG2 3DQ T 0115 924 1100 F 0115 950 3966 W bwbconsulting.com			
Client:			
Richborough Estates			
Project Title:			
Hinckley North			
Drawing Title:			
Drawing 1 - Site Features Plan			
Scale:	Date:	Drawn:	Authorised:
	Jan-22	AT	MH
Drawing Status:			
FINAL			
Drawing No:			Revision:
HIN-BWB-ZZ-XX-DR-YE-0001			P01

APPENDICES

Appendix 1: Proposed Site Layout



Appendix 2: Site Photographs

Project Number: 210683
Project Name: Hinckley North
Site Photographs

BWB



Photo 1—Edge of stockpiles and tyres at the depression at the site centre.



Photo 2—Stockpiles in the site centre.

Project Number: 210683
Project Name: Hinckley North
Site Photographs

BWB



Photo 3—The depression at the site centre.
Note the wall at the edge of the depression.



Photo 4—Standing water in the depression at the site centre.

Project Number: 210683
Project Name: Hinckley North
Site Photographs

BWB



Photo 5—Barn roof possibly constructed out of asbestos containing materials.



Photo 6—The majority of the barn roof.

Project Number: 210683
Project Name: Hinckley North
Site Photographs

BWB



Photo 7—Tweed River at eastern boundary of site. Note high banks and overgrown brambles.



Photo 8—Low water level of the Tweed River.

Appendix 3: Groundsure Report

HINCKLEY, LE10 1YG

Order Details

Date: 14/01/2022
Your ref: 210683-552
Our Ref: HMD-214-8446661
Client: BWB Consulting Limited

Site Details

Location: 442087 295663
Area: 24.99 ha
Authority: [Hinckley and Bosworth Borough Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha

groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
12	1.1	Historical industrial land uses	0	0	1	5	-
13	1.2	Historical tanks	0	2	0	5	-
13	1.3	Historical energy features	0	0	7	6	-
14	1.4	Historical petrol stations	0	0	0	0	-
15	1.5	Historical garages	0	0	0	0	-
15	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
16	2.1	Historical industrial land uses	0	0	1	8	-
17	2.2	Historical tanks	0	4	0	10	-
18	2.3	Historical energy features	0	0	12	18	-
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	1	0	-
21	3.6	Licensed waste sites	0	0	0	2	-
22	3.7	Waste exemptions	0	49	25	11	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
31	4.1	Recent industrial land uses	0	3	39	-	-
34	4.2	Current or recent petrol stations	0	0	1	0	-
35	4.3	Electricity cables	0	0	0	0	-
35	4.4	Gas pipelines	0	0	0	0	-
35	4.5	Sites determined as Contaminated Land	0	0	0	0	-



35	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
35	4.7	Regulated explosive sites	0	0	0	0	-
36	4.8	Hazardous substance storage/usage	0	0	0	0	-
36	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
36	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
36	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	3	0	-
37	4.12	Radioactive Substance Authorisations	0	0	0	0	-
37	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	6	-
38	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
38	4.15	Pollutant release to public sewer	0	0	0	0	-
39	4.16	List 1 Dangerous Substances	0	0	0	0	-
39	4.17	List 2 Dangerous Substances	0	0	0	0	-
39	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	1	0	-
39	4.19	Pollution inventory substances	0	0	0	0	-
40	4.20	Pollution inventory waste transfers	0	0	0	0	-
40	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
41	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
43	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
45	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
48	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
48	5.5	Groundwater vulnerability- local information	None (within 0m)				
49	5.6	<u>Groundwater abstractions</u>	1	0	0	2	23
55	5.7	Surface water abstractions	0	0	0	0	0
55	5.8	Potable abstractions	0	0	0	0	0
55	5.9	Source Protection Zones	0	0	0	0	-
56	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
57	6.1	<u>Water Network (OS MasterMap)</u>	5	6	2	-	-



59	6.2	<u>Surface water features</u>	1	2	4	-	-
59	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
59	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
60	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
61	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
61	7.2	Historical Flood Events	0	0	0	-	-
61	7.3	Flood Defences	0	0	0	-	-
62	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
62	7.5	Flood Storage Areas	0	0	0	-	-
63	7.6	Flood Zone 2	None (within 50m)				
63	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
64	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
66	9.1	<u>Groundwater flooding</u>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
67	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
68	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
68	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
68	10.4	Special Protection Areas (SPA)	0	0	0	0	0
68	10.5	National Nature Reserves (NNR)	0	0	0	0	0
69	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	1
69	10.7	Designated Ancient Woodland	0	0	0	0	0
69	10.8	Biosphere Reserves	0	0	0	0	0
69	10.9	Forest Parks	0	0	0	0	0
70	10.10	Marine Conservation Zones	0	0	0	0	0
70	10.11	Green Belt	0	0	0	0	0
70	10.12	Proposed Ramsar sites	0	0	0	0	0



70	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
70	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
71	10.15	Nitrate Sensitive Areas	0	0	0	0	0
71	10.16	<u>Nitrate Vulnerable Zones</u>	2	0	0	0	5
72	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
73	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
74	11.1	World Heritage Sites	0	0	0	-	-
74	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
74	11.3	National Parks	0	0	0	-	-
74	11.4	Listed Buildings	0	0	0	-	-
75	11.5	Conservation Areas	0	0	0	-	-
75	11.6	Scheduled Ancient Monuments	0	0	0	-	-
75	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
76	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
77	12.2	Open Access Land	0	0	0	-	-
77	12.3	Tree Felling Licences	0	0	0	-	-
77	12.4	Environmental Stewardship Schemes	0	0	0	-	-
77	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
78	13.1	Priority Habitat Inventory	0	0	0	-	-
78	13.2	Habitat Networks	0	0	0	-	-
78	13.3	Open Mosaic Habitat	0	0	0	-	-
78	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
79	14.1	<u>10k Availability</u>	Identified (within 500m)				
80	14.2	<u>Artificial and made ground (10k)</u>	0	0	2	2	-
82	14.3	<u>Superficial geology (10k)</u>	6	2	7	7	-



83	14.4	Landslip (10k)	0	0	0	0	-
84	14.5	<u>Bedrock geology (10k)</u>	1	0	0	1	-
85	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
86	15.1	<u>50k Availability</u>	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	<u>Superficial geology (50k)</u>	6	1	1	2	-
89	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
89	15.6	Landslip (50k)	0	0	0	0	-
90	15.7	Landslip permeability (50k)	None (within 50m)				
91	15.8	<u>Bedrock geology (50k)</u>	1	0	0	0	-
92	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
92	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
93	16.1	<u>BGS Boreholes</u>	0	0	21	-	-
Page	Section	Natural ground subsidence					
95	17.1	<u>Shrink swell clays</u>	Low (within 50m)				
97	17.2	<u>Running sands</u>	Low (within 50m)				
99	17.3	<u>Compressible deposits</u>	Moderate (within 50m)				
101	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
102	17.5	<u>Landslides</u>	Very low (within 50m)				
103	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
105	18.1	Natural cavities	0	0	0	0	-
106	18.2	BritPits	0	0	0	0	-
106	18.3	<u>Surface ground workings</u>	0	0	1	-	-
106	18.4	Underground workings	0	0	0	0	0
106	18.5	Historical Mineral Planning Areas	0	0	0	0	-



107	18.6	Non-coal mining	0	0	0	0	0
107	18.7	Mining cavities	0	0	0	0	0
107	18.8	JPB mining areas	None (within 0m)				
107	18.9	Coal mining	None (within 0m)				
107	18.10	Brine areas	None (within 0m)				
108	18.11	Gypsum areas	None (within 0m)				
108	18.12	Tin mining	None (within 0m)				
108	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
109	19.1	Radon	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
110	20.1	BGS Estimated Background Soil Chemistry	18	8	-	-	-
111	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
111	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
112	21.1	Underground railways (London)	0	0	0	-	-
112	21.2	Underground railways (Non-London)	0	0	0	-	-
112	21.3	Railway tunnels	0	0	0	-	-
112	21.4	Historical railway and tunnel features	0	0	0	-	-
112	21.5	Royal Mail tunnels	0	0	0	-	-
113	21.6	Historical railways	0	0	0	-	-
113	21.7	Railways	0	0	0	-	-
113	21.8	Crossrail 1	0	0	0	0	-
113	21.9	Crossrail 2	0	0	0	0	-
113	21.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 16/04/2020

Site Area: 24.99ha



Recent site history - 2017 aerial photograph



Capture Date: 13/08/2017

Site Area: 24.99ha



Recent site history - 2008 aerial photograph



Capture Date: 20/09/2008

Site Area: 24.99ha



Recent site history - 1999 aerial photograph



Capture Date: 27/10/1999

Site Area: 24.99ha



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

6

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 12**

ID	Location	Land use	Dates present	Group ID
1	57m S	Unspecified Depot	1978	1763796



ID	Location	Land use	Dates present	Group ID
D	305m NE	Isolation Hospital	1927 - 1938	1800706
D	306m NE	Isolation Hospital	1950	1845527
D	355m NE	Hospital	1967 - 1978	1801105
D	375m NE	Isolation Hospital	1901	1829501
6	410m SE	Unspecified Works	1967 - 1978	1840488

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

7

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, 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 12**

ID	Location	Land use	Dates present	Group ID
A	1m E	Unspecified Tank	1990 - 1993	294530
A	3m E	Unspecified Tank	1964	301901
5	285m SE	Unspecified Tank	1974	283181
D	400m NE	Tanks	1987 - 1993	301471
D	429m NE	Unspecified Tank	1987 - 1993	292216
G	475m SE	Unspecified Tank	1989 - 1993	291032
G	475m SE	Unspecified Tank	1974	293181

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

13

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 12**

ID	Location	Land use	Dates present	Group ID
2	88m SE	Electricity Substation	1996 - 1997	180391
3	122m SW	Electricity Substation	1997	169739
B	146m S	Electricity Substation	1993	181263
B	155m S	Electricity Substation	1990 - 1993	173966
B	156m S	Electricity Substation	1993	173115
C	200m S	Gas Governor	1996 - 1997	173666
C	214m S	Electricity Substation	1996 - 1997	175306
4	281m SE	Electricity Substation	1990 - 1993	187134
E	468m SE	Electricity Substation	1973 - 1997	180500
E	468m SE	Electricity Substation	1990 - 1993	186948
F	469m SW	Electricity Substation	1995	180343
F	472m SW	Electricity Substation	1995 - 1996	174123
7	482m S	Electricity Substation	1974 - 1993	179760

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
- Historical energy features

2.1 Historical industrial land uses

Records within 500m

9

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 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 16**

ID	Location	Land Use	Date	Group ID
1	57m S	Unspecified Depot	1978	1763796
F	305m NE	Isolation Hospital	1938	1800706
F	305m NE	Isolation Hospital	1927	1800706

ID	Location	Land Use	Date	Group ID
F	306m NE	Isolation Hospital	1950	1845527
F	355m NE	Hospital	1978	1801105
F	355m NE	Hospital	1967	1801105
F	375m NE	Isolation Hospital	1901	1829501
G	410m SE	Unspecified Works	1978	1840488
G	410m SE	Unspecified Works	1967	1840488

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

14

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 16**

ID	Location	Land Use	Date	Group ID
A	1m E	Unspecified Tank	1990	294530
A	3m E	Unspecified Tank	1964	301901
A	4m E	Unspecified Tank	1993	294530
A	4m E	Unspecified Tank	1993	294530
3	285m SE	Unspecified Tank	1974	283181
F	400m NE	Tanks	1993	301471
F	402m NE	Tanks	1987	301471
F	429m NE	Unspecified Tank	1993	292216
F	430m NE	Unspecified Tank	1987	292216
J	475m SE	Unspecified Tank	1993	291032
J	475m SE	Unspecified Tank	1989	291032
J	475m SE	Unspecified Tank	1992	291032
J	475m SE	Unspecified Tank	1992	291032
J	475m SE	Unspecified Tank	1974	293181



This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

30

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 16**

ID	Location	Land Use	Date	Group ID
B	88m SE	Electricity Substation	1997	180391
B	88m SE	Electricity Substation	1996	180391
2	122m SW	Electricity Substation	1997	169739
C	146m S	Electricity Substation	1993	181263
C	155m S	Electricity Substation	1990	173966
C	155m S	Electricity Substation	1993	173966
C	156m S	Electricity Substation	1993	173115
D	200m S	Gas Governor	1996	173666
D	200m S	Gas Governor	1997	173666
D	200m S	Gas Governor	1997	173666
D	214m S	Electricity Substation	1997	175306
D	214m S	Electricity Substation	1996	175306
E	281m SE	Electricity Substation	1990	187134
E	281m SE	Electricity Substation	1993	187134
H	468m SE	Electricity Substation	1997	180500
H	468m SE	Electricity Substation	1996	180500
H	468m SE	Electricity Substation	1990	186948
H	468m SE	Electricity Substation	1992	186948
H	468m SE	Electricity Substation	1993	186948
H	468m SE	Electricity Substation	1992	186948
H	468m SE	Electricity Substation	1973	180500



ID	Location	Land Use	Date	Group ID
I	469m SW	Electricity Substation	1995	180343
I	472m SW	Electricity Substation	1995	174123
I	472m SW	Electricity Substation	1996	174123
I	472m SW	Electricity Substation	1996	174123
K	482m S	Electricity Substation	1989	179760
K	482m S	Electricity Substation	1992	179760
K	482m S	Electricity Substation	1992	179760
K	482m S	Electricity Substation	1993	179760
K	482m S	Electricity Substation	1974	179760

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)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

0

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

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

3.5 Historical waste sites

Records within 500m

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 20**

ID	Location	Address	Further Details	Date
1	183m SE	Site Address: Phs Group Plc, 2 Maizefield, HINCKLEY, Leicestershire, LE10 1YF	Type of Site: Recycling Centre (Conversion) Planning application reference: 10/00280/C Description: Scheme comprises change of use of factory to recycling centre (county council identification number 2010/c257/04). An application (ref: 10/00280/C) for detailed planning permission was submitted to Hinckley & Bosworth B.C. A detailed planning application has been submitted. Data source: Historic Planning Application Data Type: Point	04/07/201 1

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

3.6 Licensed waste sites

Records within 500m

2

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

Features are displayed on the Waste and landfill map on **page 20**



ID	Location	Details		
D	279m SE	Site Name: Hinckley & Bosworth B C Site Address: Works Depot, Middlefield Lane, Hinckley, Leicestershire, LE10 0RA Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HIN001 EPR reference: EA/EPR/QP3491FY/S002 Operator: Hinckley & Bosworth Borough Council Waste Management licence No: 42594 Annual Tonnage: 0	Issue Date: 21/03/1995 Effective Date: - Modified: - Surrendered Date: Sep 17 2013 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
D	280m SE	Site Name: Hinckley & Bosworth B C Site Address: Works Depot, Middlefield Lane, Hinckley, Leicestershire, LE10 0RA Correspondence Address: Works Depot, Middlefield Lane, Hinckley, Leicestershire, LE10 0RA	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HIN001 EPR reference: - Operator: Hinckley & Bosworth B C Waste Management licence No: 42594 Annual Tonnage: 0	Issue Date: 21/03/1995 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

85

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	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Treating waste exemption	On a farm	Sorting mixed waste
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Disposing of waste exemption	On a farm	Burning waste in the open
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Treating waste exemption	On a farm	Mechanical treatment of end-of-life tyres
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Using waste exemption	On a farm	Use of waste for a specified purpose
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Treating waste exemption	On a farm	Recovery of scrap metal
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Using waste exemption	On a farm	Incorporation of ash into soil
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Storing waste exemption	On a farm	Storage of waste in secure containers
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Storing waste exemption	On a farm	Storage of waste in a secure place
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Using waste exemption	On a farm	Use of waste in construction
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Using waste exemption	On a farm	Use of baled end-of-life tyres in construction
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance



ID	Location	Site	Reference	Category	Sub-Category	Description
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX179352	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Using waste exemption	On a farm	Incorporation of ash into soil
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Using waste exemption	On a farm	Use of baled end-of-life tyres in construction
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Using waste exemption	On a farm	Use of waste in construction
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Disposing of waste exemption	On a farm	Burning waste in the open
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Using waste exemption	On a farm	Use of waste for a specified purpose
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Treating waste exemption	On a farm	Sorting mixed waste



ID	Location	Site	Reference	Category	Sub-Category	Description
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Treating waste exemption	On a farm	Recovery of scrap metal
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Treating waste exemption	On a farm	Mechanical treatment of end-of-life tyres
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Storing waste exemption	On a farm	Storage of waste in secure containers
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX187132	Using waste exemption	On a farm	Use of mulch
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Disposing of waste exemption	On a farm	Burning waste in the open
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Storing waste exemption	On a farm	Storage of waste in secure containers
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Storing waste exemption	On a farm	Storage of waste in a secure place
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Treating waste exemption	On a farm	Sorting mixed waste
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Treating waste exemption	On a farm	Mechanical treatment of end-of-life tyres
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Treating waste exemption	On a farm	Recovery of scrap metal



ID	Location	Site	Reference	Category	Sub-Category	Description
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Using waste exemption	On a farm	Use of waste in construction
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Using waste exemption	On a farm	Use of mulch
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Using waste exemption	On a farm	Incorporation of ash into soil
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Using waste exemption	On a farm	Use of baled end-of-life tyres in construction
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
A	11m NW	MIDDLEFIELD FARM, STOKE ROAD, HINCKLEY, LE10 3EA	WEX020682	Using waste exemption	On a farm	Use of waste for a specified purpose
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Deposit of waste from dredging of inland waters
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Storing waste exemption	Both agricultural and non- agricultural waste	Storage of waste in secure containers



ID	Location	Site	Reference	Category	Sub-Category	Description
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Sorting mixed waste
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Preparatory treatments (baling, sorting, shredding etc)
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /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	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Mechanical treatment of end-of-life tyres
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Recovery of scrap metal
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of mulch
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Using waste exemption	Both agricultural and non-agricultural waste	Incorporation of ash into soil
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of baled end-of-life tyres in construction
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
B	82m NW	Middlefield Farm Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/CF0435GF /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
C	224m S	Unit 20 Greenfields Business Park Wheatfield Way Hinckley Leicestershire LE10 1bb	EPR/LF0600NA /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
C	224m S	Unit 20 Greenfields Business Park Wheatfield Way Hinckley Leicestershire LE10 1bb	EPR/LF0600NA /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
C	224m S	Unit 20 Greenfields Business Park Wheatfield Way Hinckley Leicestershire LE10 1bb	EPR/LF0600NA /A001	Treating waste exemption	Non-Agricultural Waste Only	Cleaning, washing, spraying or coating relevant waste
C	224m S	Unit 20 Greenfields Business Park Wheatfield Way Hinckley Leicestershire LE10 1bb	EPR/LF0600NA /A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting mixed waste
C	224m S	Unit 20 Greenfields Business Park Wheatfield Way Hinckley Leicestershire LE10 1bb	EPR/LF0600NA /A001	Treating waste exemption	Non-Agricultural Waste Only	Manual treatment of waste
C	224m S	Unit 20 Greenfields Business Park Wheatfield Way Hinckley Leicestershire LE10 1bb	EPR/LF0600NA /A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of silver



ID	Location	Site	Reference	Category	Sub-Category	Description
C	224m S	Unit 20 Greenfields Business Park Wheatfield Way Hinckley Leicestershire LE10 1bb	EPR/LF0600NA /A001	Treating waste exemption	Non- Agricultural Waste Only	Recovery of monopropylene glycol from aircraft antifreeze fluids
C	224m S	Unit 20 Greenfields Business Park Wheatfield Way Hinckley Leicestershire LE10 1bb	EPR/LF0600NA /A001	Treating waste exemption	Non- Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
C	224m S	Unit 20 Greenfields Business Park Wheatfield Way Hinckley Leicestershire LE10 1bb	EPR/LF0600NA /A001	Treating waste exemption	Non- Agricultural Waste Only	Recovery of scrap metal
2	310m S	Hinckley Club for Young People Stoke Road HINCKLEY Leicestershire LE10 3EA	EPR/AE5457H R/A001	Treating waste exemption	Non- Agricultural Waste Only	Screening and blending of waste
E	406m SE	Former Depot, Middlefield Lane, Hinkley, LE10 0RA	WEX172353	Treating waste exemption	Not on a farm	Screening and blending of waste
E	406m SE	Former Depot, Middlefield Lane, Hinkley, LE10 0RA	WEX172353	Using waste exemption	Not on a farm	Use of waste in construction
3	422m NW	Hinckley Club For Young People Stoke Road Hinckley Leicestershire LE10 0EA	EPR/JH0411R Q/A001	Using waste exemption	Non- Agricultural Waste Only	Use of waste in construction
F	460m E	Sunnyside Farm Ashby Road HINCKLEY Leicestershire LE10 3DA	EPR/JH0074FE /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
F	460m E	Sunnyside Farm Ashby Road HINCKLEY Leicestershire LE10 3DA	EPR/JH0074FE /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	460m E	Sunnyside Farm Ashby Road HINCKLEY Leicestershire LE10 3DA	EPR/JH0074FE /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
F	460m E	Sunnyside Farm Ashby Road HINCKLEY Leicestershire LE10 3DA	EPR/JH0074FE /A001	Treating waste exemption	Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
F	460m E	Sunnyside Farm Ashby Road HINCKLEY Leicestershire LE10 3DA	EPR/JH0074FE /A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising



ID	Location	Site	Reference	Category	Sub-Category	Description
F	460m E	Sunnyside Farm Ashby Road HINCKLEY Leicestershire LE10 3DA	EPR/JH0074FE /A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
F	460m E	Sunnyside Farm Ashby Road HINCKLEY Leicestershire LE10 3DA	EPR/JH0074FE /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste for a specified purpose

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

42

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Company	Address	Activity	Category
1	11m NW	D B & J Griffin	Middlefield Farm, Stoke Road, Hinckley, Leicestershire, LE10 3EA	Dairy Farming	Farming
2	17m E	Tank	Leicestershire, LE10	Tanks (Generic)	Industrial Features
A	50m S	Flow	Unit 3 Canton House, Wheatfield Way, Hinckley, Leicestershire, LE10 1YG	Tools Including Machine Shops	Industrial Products



ID	Location	Company	Address	Activity	Category
A	52m S	Evergreen Water Solutions	Canton House, Wheatfield Way, Hinckley, Leicestershire, LE10 1PJ	Air and Water Filtration	Industrial Products
C	56m SE	Vac Innovation Ltd	Wheatfield Way, Hinckley, Leicestershire, LE10 1YG	Rubber, Silicones and Plastics	Industrial Products
A	65m SE	Sewage Pumping Station	Leicestershire, LE10	Waste Storage, Processing and Disposal	Infrastructure and Facilities
A	77m S	Sunnyside Industrial Estate	Leicestershire, LE10	Business Parks and Industrial Estates	Industrial Features
A	85m SE	M W P Contract Flooring	9, Sunnyside Park, Hinckley, Leicestershire, LE10 1PJ	Construction Completion Services	Construction Services
D	87m S	Pumping Station	Leicestershire, LE10	Water Pumping Stations	Industrial Features
C	90m SE	Electricity Sub Station	Leicestershire, LE10	Electrical Features	Infrastructure and Facilities
A	91m S	S E S	7, Sunnyside Park, Hinckley, Leicestershire, LE10 1PJ	Measurement and Inspection Equipment	Industrial Products
3	97m SE	Electricity Sub Station	Leicestershire, LE10	Electrical Features	Infrastructure and Facilities
D	98m S	Electricity Sub Station	Leicestershire, LE10	Electrical Features	Infrastructure and Facilities
A	102m S	Shapecraft Sheet Metal Co Ltd	20a, Wheatfield Way, Hinckley, Leicestershire, LE10 1YG	Metalworkers Including Blacksmiths	Construction Services
A	106m SE	Eden Tyre & Services Ltd	Unit 19 Wheatfield Way, Hinckley Fields Industrial Estate, Hinckley, Leicestershire, LE10 1YG	Vehicle Parts and Accessories	Motoring
A	106m SE	Eden Tyres & Servicing	19, Wheatfield Way, Hinckley, Leicestershire, LE10 1YG	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	111m S	Morrisons Petrol Station	Normandy Way, Hinckley, Leicestershire, LE10 1YA	Petrol and Fuel Stations	Road and Rail
B	111m S	Morrisons Hinckley	Normandy Way, Hinckley, Leicestershire, LE10 1YA	Vehicle Cleaning Services	Personal, Consumer and Other Services



ID	Location	Company	Address	Activity	Category
4	122m SW	Electricity Sub Station	Leicestershire, LE10	Electrical Features	Infrastructure and Facilities
A	137m S	Ideal Surfaces	20b, Wheatfield Way, Hinckley, Leicestershire, LE10 1YG	General Construction Supplies	Industrial Products
E	141m S	Morrisons Car Wash	Normandy Way, Hinckley, Leicestershire, LE10 1YA	Vehicle Cleaning Services	Personal, Consumer and Other Services
5	143m S	Matt Kearney Transport	19, Thruxton Close, Hinckley, Leicestershire, LE10 0NN	Distribution and Haulage	Transport, Storage and Delivery
6	156m SE	M D M Vehicle Deliveries	Unit 4-5 Greenfields Business Park, Wheatfield Way, Hinckley, Leicestershire, LE10 1BB	Distribution and Haulage	Transport, Storage and Delivery
F	180m SE	The P S L Group Ltd	Barleyfield, Hinckley, Leicestershire, LE10 1YE	Distribution and Haulage	Transport, Storage and Delivery
F	181m SE	R & J Autos	1-2, Barleyfield, Hinckley, Leicestershire, LE10 1YE	Vehicle Repair, Testing and Servicing	Repair and Servicing
7	189m S	Electricity Sub Station	Leicestershire, LE10	Electrical Features	Infrastructure and Facilities
8	200m SE	Xchanger Services Ltd	1, Barleyfield, Hinckley, Leicestershire, LE10 1YE	Cooling and Refrigeration	Industrial Products
G	201m S	Gas Governor Station	Leicestershire, LE10	Gas Features	Infrastructure and Facilities
H	206m S	East Midland Profiling	20 Greenfields Business Park, Wheatfield Way, Hinckley, Leicestershire, LE10 1BB	Cutting, Drilling and Welding Services	Construction Services
I	211m SE	D 2 Industrial Ltd	Unit 1, Maizefield, Hinckley, Leicestershire, LE10 1YF	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
I	212m SE	M P Engineering	2, Maizefield, Hinckley, Leicestershire, LE10 1YF	Precision Engineers	Engineering Services
I	212m SE	Tritex Design & Development Ltd	Unit 3, Maizefield, Hinckley, Leicestershire, LE10 1YF	Textiles, Fabrics, Silk and Machinery	Industrial Products
G	216m S	Electricity Sub Station	Leicestershire, LE10	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
9	221m SE	Engine Parts	5-6, Barleyfield, Hinckley, Leicestershire, LE10 1YE	Vehicle Parts and Accessories	Motoring
J	221m S	Adder Screen Print Ltd	Unit 3 Clover Park, Cloverfield, Hinckley, Leicestershire, LE10 1YD	Textiles, Fabrics, Silk and Machinery	Industrial Products
H	223m S	Greenfields Business Park	Leicestershire, LE10	Business Parks and Industrial Estates	Industrial Features
J	225m S	Ultima Sports Ltd	Unit 4, Cloverfield, Hinckley, Leicestershire, LE10 1YD	Vehicles	Industrial Products
H	231m SE	2Refinish	10 Greenfields Business Park, Wheatfield Way, Hinckley, Leicestershire, LE10 1BB	Vehicle Parts and Accessories	Motoring
I	241m SE	Gas Governor	Leicestershire, LE10	Gas Features	Infrastructure and Facilities
H	242m SE	Rechem Ltd	11 Greenfields Business Park, Wheatfield Way, Hinckley, Leicestershire, LE10 1BB	Measurement and Inspection Equipment	Industrial Products
H	245m SE	Graphics to Go	12 Greenfields Business Park, Wheatfield Way, Hinckley, Leicestershire, LE10 1BB	Signs	Industrial Products
G	247m S	Clover Park Trading Estate	Leicestershire, LE10	Business Parks and Industrial Estates	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Company	Address	LPG	Status
B	54m SE	MORRISONS	Normandy Way, Hinckley, Leicestershire, LE10 1YA	No	Open

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

3

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

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Address	Details	
B	91m S	Morrisons Petrol Station, Normandy Way, Hinckley, LE10 1YA	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
B	111m S	Morrisons Petrol Station, Cloverfield, Hinckley Fields, Hinckley, LE10 1YA	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified



ID	Location	Address	Details	
E	147m S	Morrisons Dry Cleaners, Hinckley Fields Industrial Estate, Hinckley, LE10 1YA	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	6
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Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Address	Details	
11	354m SE	CSO SERVING HOLLYCROFT/TUDOR RD, HINKLEY, LEICESTERSHIRE, LE10 OEL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/20/00558/O Permit Version: 1 Receiving Water: TRIBUTARY OF TWEED RIVER	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 01/07/1953 Effective Date: 01/07/1953 Revocation Date: 28/03/2011
K	367m S	TUDOR RD, HINCKLEY, LE10 OEL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TSC2000 Permit Version: 1 Receiving Water: LOCAL DITCH	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 12/08/2011
12	372m SE	MIDDLEFIELD PLACE/PART OF NETHERLEY, ROAD, HINCKLEY, LEICESTERSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/20/02628/O Permit Version: 1 Receiving Water: TRIB OF TWEED RIVER	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 31/10/1969 Effective Date: 31/10/1969 Revocation Date: 27/03/2000



ID	Location	Address	Details	
K	386m S	CSO SERVING HOLLYCROFT/TUDOR RD, HINKLEY, LEICESTERSHIRE, LE10 0EL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/20/00558/O Permit Version: 1 Receiving Water: TRIBUTARY OF TWEED RIVER	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 01/07/1953 Effective Date: 01/07/1953 Revocation Date: 28/03/2011
K	386m S	CSO SERVING HOLLYCROFT/TUDOR RD, HINKLEY, LEICESTERSHIRE, LE10 0EL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/20/00558/O Permit Version: 2 Receiving Water: TRIBUTARY OF TWEED RIVER	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 29/03/2011 Effective Date: 29/03/2011 Revocation Date: -
13	395m SE	STAPLETON LANE SWS, BARWELL, LEICESTERSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/20/03755/O Permit Version: 1 Receiving Water: SIBSON BROOK	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/10/1979 Effective Date: 27/10/1979 Revocation Date: 27/03/2000

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 31**

ID	Location	Details	
10	225m E	Incident Date: 25/02/2003 Incident Identification: 139132 Pollutant: Sewage Materials Pollutant Description: Other Sewage Material	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
0

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

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

4.21 Pollution inventory radioactive waste

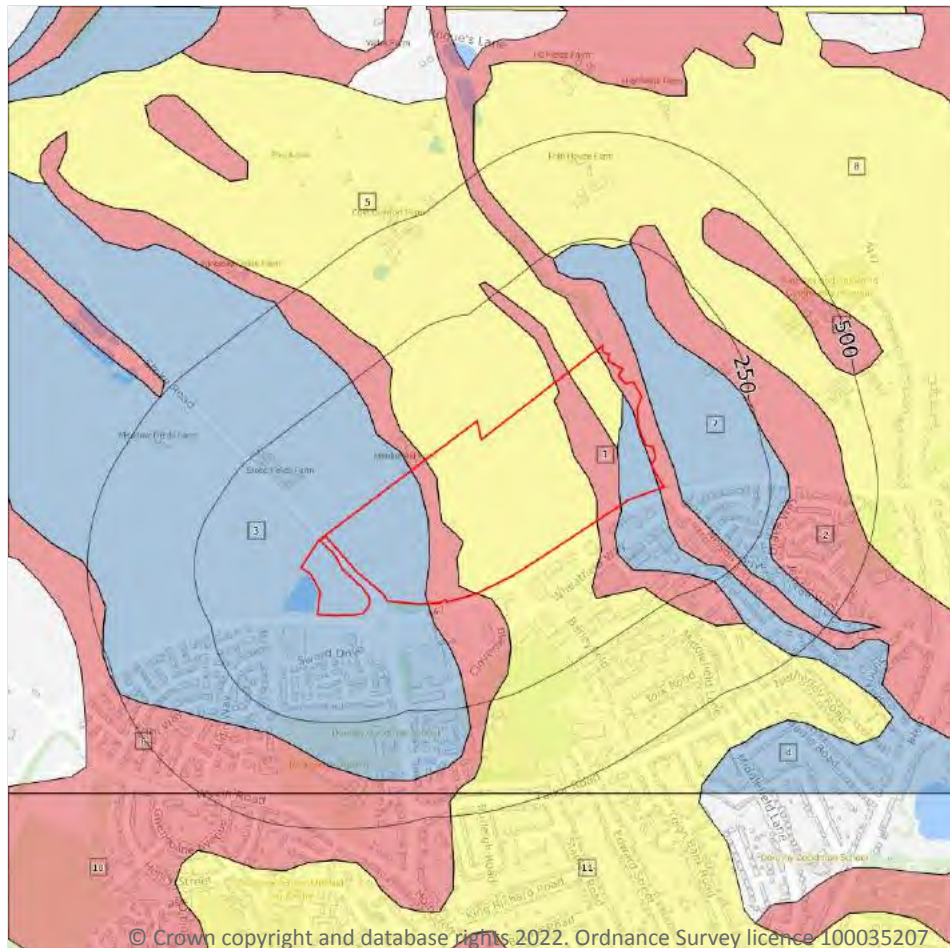
Records within 500m
0

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

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



5 Hydrogeology - Superficial aquifer



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

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 41**

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

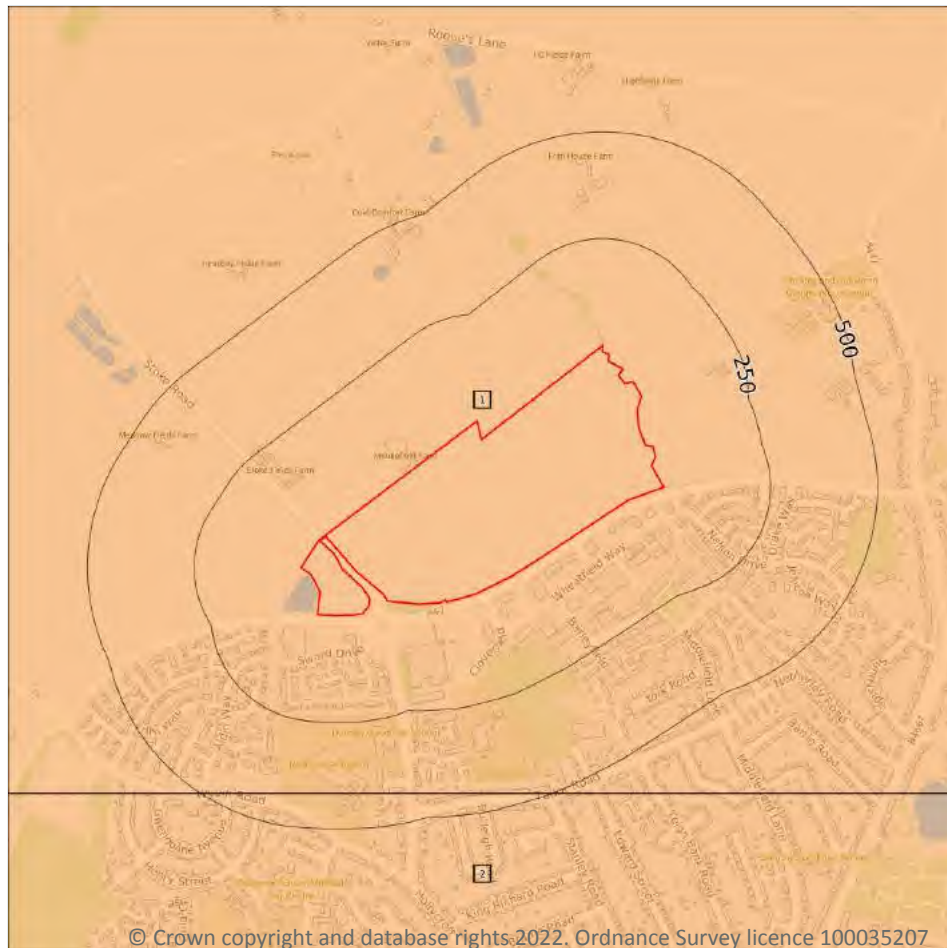


ID	Location	Designation	Description
3	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	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
7	15m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
8	228m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
9	339m 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
10	416m S	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	447m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

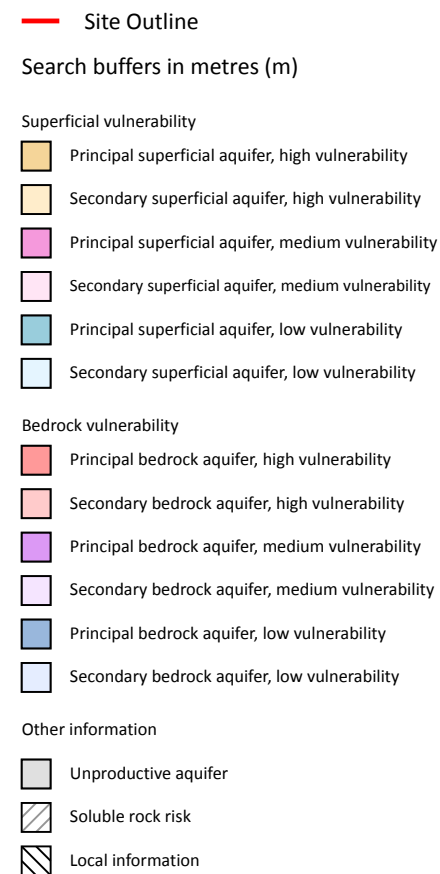
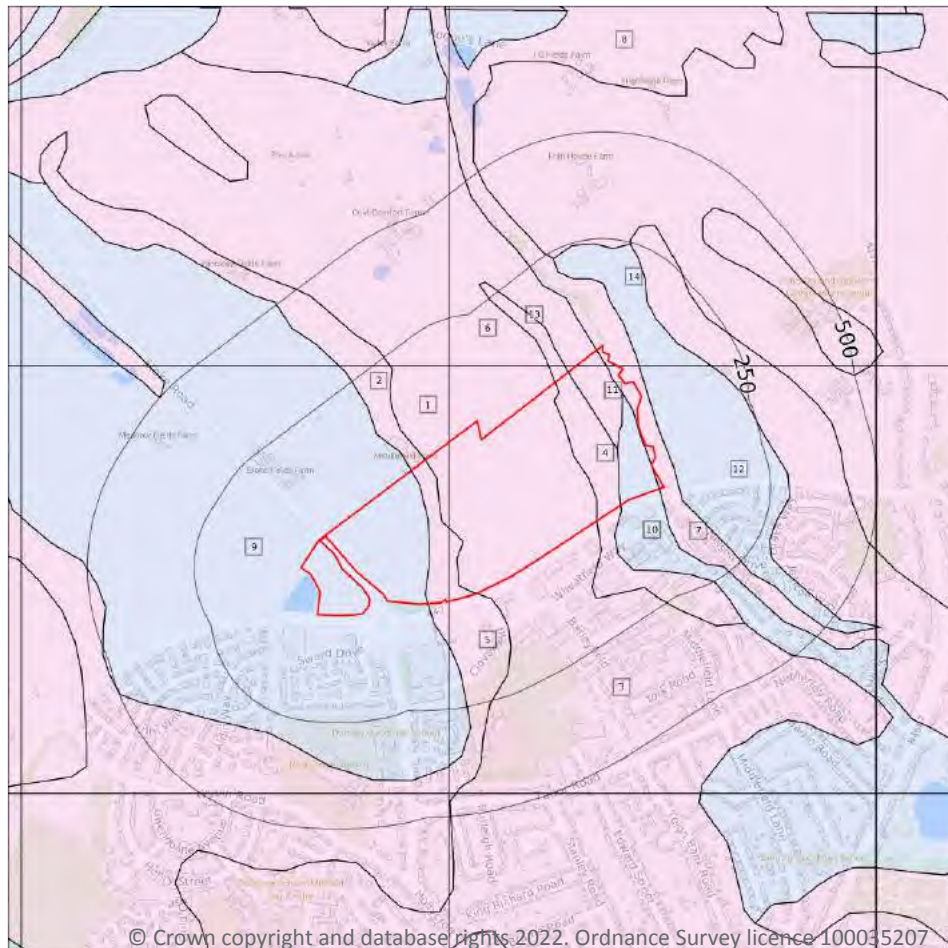
Features are displayed on the Bedrock aquifer map on **page 43**

ID	Location	Designation	Description
1	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
2	416m S	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

14

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 45**

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% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
6	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
7	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
8	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
9	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
10	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate 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: Secondary Flow mechanism: Well connected fractures
11	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
12	15m E	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate 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: Secondary Flow mechanism: Well connected fractures
13	16m NW	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
14	37m E	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

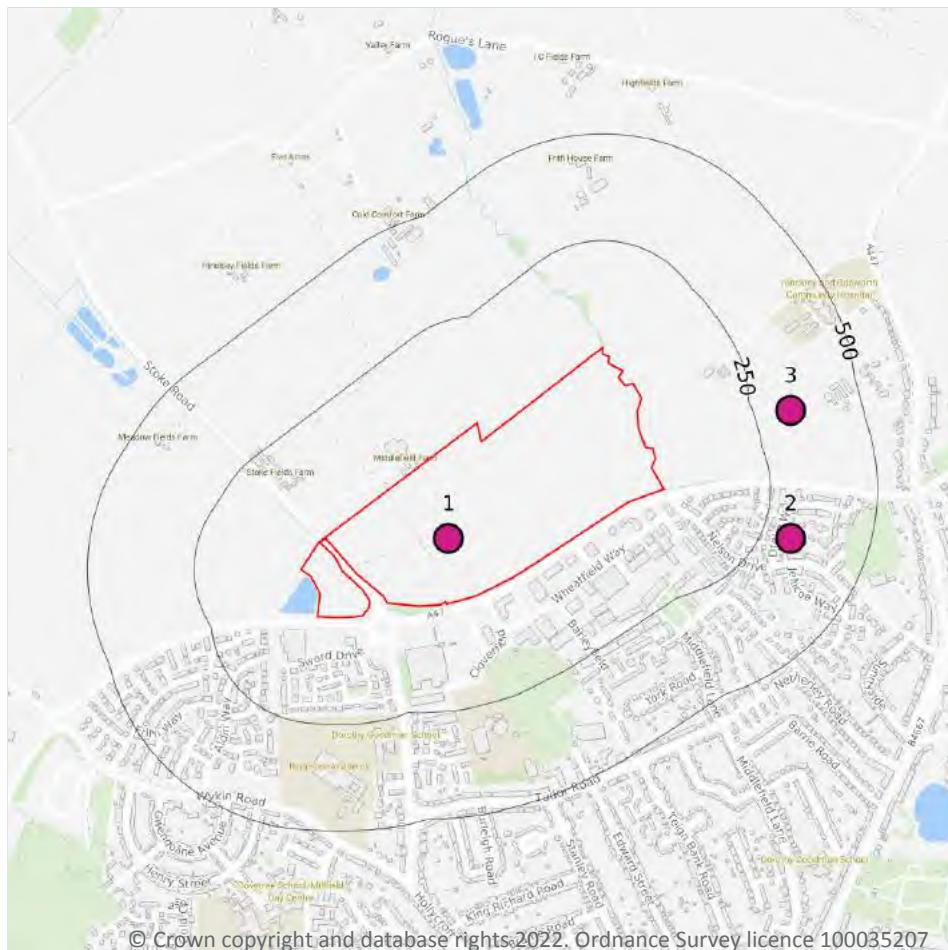
0

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

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



Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

26

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 49**

ID	Location	Details	
1	On site	Status: Historical Licence No: 03/28/20/0079 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: HINCKLEY FIELDS FARM, HINCKLEY - WELL Data Type: Point Name: J ADCOCK & SONS Easting: 442000 Northing: 295600	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 07/04/1965 Expiry Date: - Issue No: 100 Version Start Date: 30/08/1994 Version End Date: -
2	318m E	Status: Historical Licence No: 03/28/20/0068 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: LOWER SUNNYSIDE FARM, WELL Data Type: Point Name: DENSON Easting: 442800 Northing: 295600	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 24/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/02/1966 Version End Date: -
3	334m E	Status: Historical Licence No: 03/28/20/0065 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: SUNNYSIDE FARM, HINCKLEY - WELL Data Type: Point Name: J ADCOCK & SONS Easting: 442800 Northing: 295900	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 04/03/1965 Expiry Date: - Issue No: 100 Version Start Date: 05/08/1994 Version End Date: -
-	1738m S	Status: Historical Licence No: MD/028/0019/005 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH115C Data Type: Point Name: Celtic Technologies Limited Easting: 442087 Northing: 293706	Annual Volume (m³): 31799 Max Daily Volume (m³): 87.12 Original Application No: - Original Start Date: 28/05/2012 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 28/05/2012 Version End Date: -
-	1738m S	Status: Active Licence No: MD/028/0019/005/R01 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH115C Data Type: Point Name: Celtic Technologies Limited Easting: 442087 Northing: 293706	Annual Volume (m³): 31,799 Max Daily Volume (m³): 87.12 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -



ID	Location	Details	
-	1744m S	Status: Historical Licence No: MD/028/0019/005 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CHB116 Data Type: Point Name: Celtic Technologies Limited Easting: 442091 Northing: 293701	Annual Volume (m ³): 31799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 28/05/2012 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 28/05/2012 Version End Date: -
-	1744m S	Status: Active Licence No: MD/028/0019/005/R01 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CHB116 Data Type: Point Name: Celtic Technologies Limited Easting: 442091 Northing: 293701	Annual Volume (m ³): 31,799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -
-	1751m S	Status: Historical Licence No: MD/028/0019/005 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH117C Data Type: Point Name: Celtic Technologies Limited Easting: 442095 Northing: 293694	Annual Volume (m ³): 31799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 28/05/2012 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 28/05/2012 Version End Date: -
-	1751m S	Status: Active Licence No: MD/028/0019/005/R01 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH117C Data Type: Point Name: Celtic Technologies Limited Easting: 442095 Northing: 293694	Annual Volume (m ³): 31,799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -
-	1760m S	Status: Historical Licence No: MD/028/0019/005 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH118 Data Type: Point Name: Celtic Technologies Limited Easting: 442100 Northing: 293686	Annual Volume (m ³): 31799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 28/05/2012 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 28/05/2012 Version End Date: -



ID	Location	Details	
-	1760m S	Status: Active Licence No: MD/028/0019/005/R01 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH118 Data Type: Point Name: Celtic Technologies Limited Easting: 442100 Northing: 293686	Annual Volume (m ³): 31,799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -
-	1761m SE	Status: Historical Licence No: 03/28/19/0027 Details: Spray Irrigation - Direct Direct Source: Groundwater Midlands Region Point: HINCKLEY BOWLING CLUB - BOREHOLE Data Type: Point Name: HINCKLEY BOWLING CLUB Easting: 443400 Northing: 294200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/01/1966 Version End Date: -
-	1770m S	Status: Historical Licence No: MD/028/0019/005 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: RBH5A Data Type: Point Name: Celtic Technologies Limited Easting: 442109 Northing: 293677	Annual Volume (m ³): 31799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 28/05/2012 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 28/05/2012 Version End Date: -
-	1770m S	Status: Active Licence No: MD/028/0019/005/R01 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: RBH5A Data Type: Point Name: Celtic Technologies Limited Easting: 442109 Northing: 293677	Annual Volume (m ³): 31,799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -
-	1776m S	Status: Historical Licence No: MD/028/0019/005 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: RBH6A Data Type: Point Name: Celtic Technologies Limited Easting: 442113 Northing: 293672	Annual Volume (m ³): 31799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 28/05/2012 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 28/05/2012 Version End Date: -



ID	Location	Details	
-	1776m S	Status: Active Licence No: MD/028/0019/005/R01 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: RBH6A Data Type: Point Name: Celtic Technologies Limited Easting: 442113 Northing: 293672	Annual Volume (m ³): 31,799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -
-	1776m S	Status: Historical Licence No: MD/028/0019/005 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: DBH3 Data Type: Point Name: Celtic Technologies Limited Easting: 442115 Northing: 293672	Annual Volume (m ³): 31799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 28/05/2012 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 28/05/2012 Version End Date: -
-	1776m S	Status: Active Licence No: MD/028/0019/005/R01 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: DBH3 Data Type: Point Name: Celtic Technologies Limited Easting: 442115 Northing: 293672	Annual Volume (m ³): 31,799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -
-	1779m S	Status: Historical Licence No: MD/028/0019/005 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH121B Data Type: Point Name: Celtic Technologies Limited Easting: 442117 Northing: 293670	Annual Volume (m ³): 31799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 28/05/2012 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 28/05/2012 Version End Date: -
-	1779m S	Status: Active Licence No: MD/028/0019/005/R01 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH121B Data Type: Point Name: Celtic Technologies Limited Easting: 442117 Northing: 293670	Annual Volume (m ³): 31,799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -



ID	Location	Details	
-	1783m S	Status: Historical Licence No: MD/028/0019/005 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH121C Data Type: Point Name: Celtic Technologies Limited Easting: 442119 Northing: 293666	Annual Volume (m ³): 31799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 28/05/2012 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 28/05/2012 Version End Date: -
-	1783m S	Status: Active Licence No: MD/028/0019/005/R01 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH121C Data Type: Point Name: Celtic Technologies Limited Easting: 442119 Northing: 293666	Annual Volume (m ³): 31,799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -
-	1791m S	Status: Historical Licence No: MD/028/0019/005 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH122 Data Type: Point Name: Celtic Technologies Limited Easting: 442126 Northing: 293659	Annual Volume (m ³): 31799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 28/05/2012 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 28/05/2012 Version End Date: -
-	1791m S	Status: Active Licence No: MD/028/0019/005/R01 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH122 Data Type: Point Name: Celtic Technologies Limited Easting: 442126 Northing: 293659	Annual Volume (m ³): 31,799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -
-	1795m S	Status: Historical Licence No: MD/028/0019/005 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH123 Data Type: Point Name: Celtic Technologies Limited Easting: 442128 Northing: 293655	Annual Volume (m ³): 31799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 28/05/2012 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 28/05/2012 Version End Date: -



ID	Location	Details	
-	1795m S	Status: Active Licence No: MD/028/0019/005/R01 Details: Pollution Remediation Direct Source: Groundwater Midlands Region Point: CBH123 Data Type: Point Name: Celtic Technologies Limited Easting: 442128 Northing: 293655	Annual Volume (m ³): 31,799 Max Daily Volume (m ³): 87.12 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	0
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Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

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

5.8 Potable abstractions

Records within 2000m	0
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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
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

13

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 57**

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)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
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)	-
D	1m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	2m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	2m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	5m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
7	14m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	45m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	51m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
8	75m SE	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

7

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

Features are displayed on the Hydrology map on **page 57**

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 57**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
4	On site	River	Stoke Golding Brook from Source to R Sence	GB104028046640	Sence Anker and Bourne Rivers and Lakes	Tame Anker and Mease

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 57**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	3253m NW	River	Stoke Golding Brook from Source to R Sence	GB104028046640	Poor	Fail	Poor	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 57**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Tame Anker Mease - Secondary Combined	GB40402G990800	Good	Good	Good	2019

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

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m**0**

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

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

7.2 Historical Flood Events

Records within 250m**0**

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

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

7.3 Flood Defences

Records within 250m**0**

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

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



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0
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Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

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

7.7 Flood Zone 3

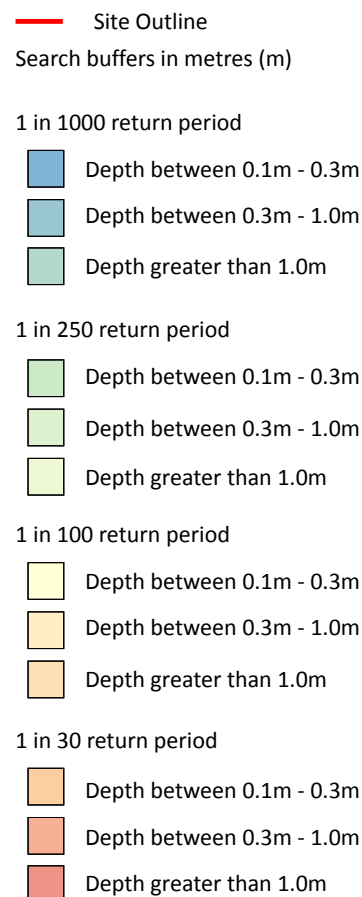
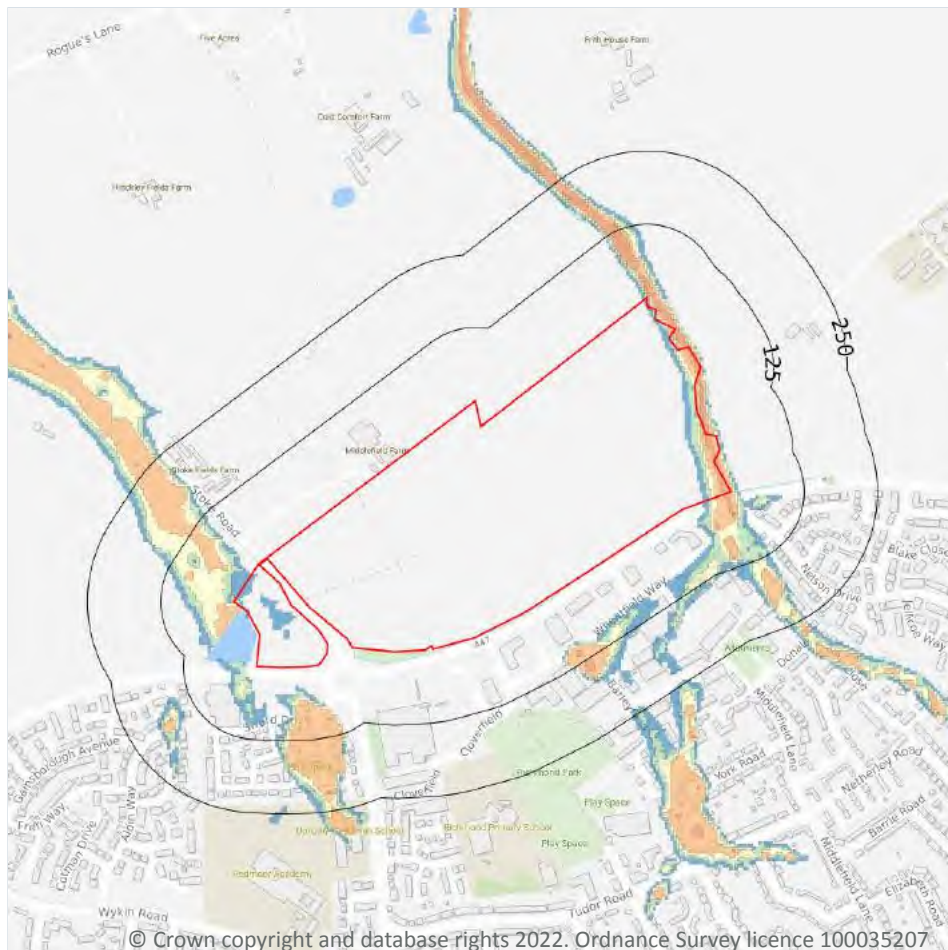
Records within 50m	0
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Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

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 64**

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.

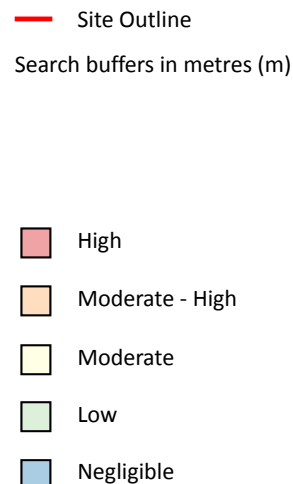
The table below shows the maximum flood depths for a range of return periods for the site.

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 Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

Moderate

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 66**

This data is sourced from Ambiantal Risk Analytics.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**1**

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

Features are displayed on the Environmental designations map on **page 67**

ID	Location	Name	Data source
-	1919m E	Burbage Common & Woods	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m**0**

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

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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

10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m**0**

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

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

10.11 Green Belt

Records within 2000m**0**

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

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m**0**

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

7

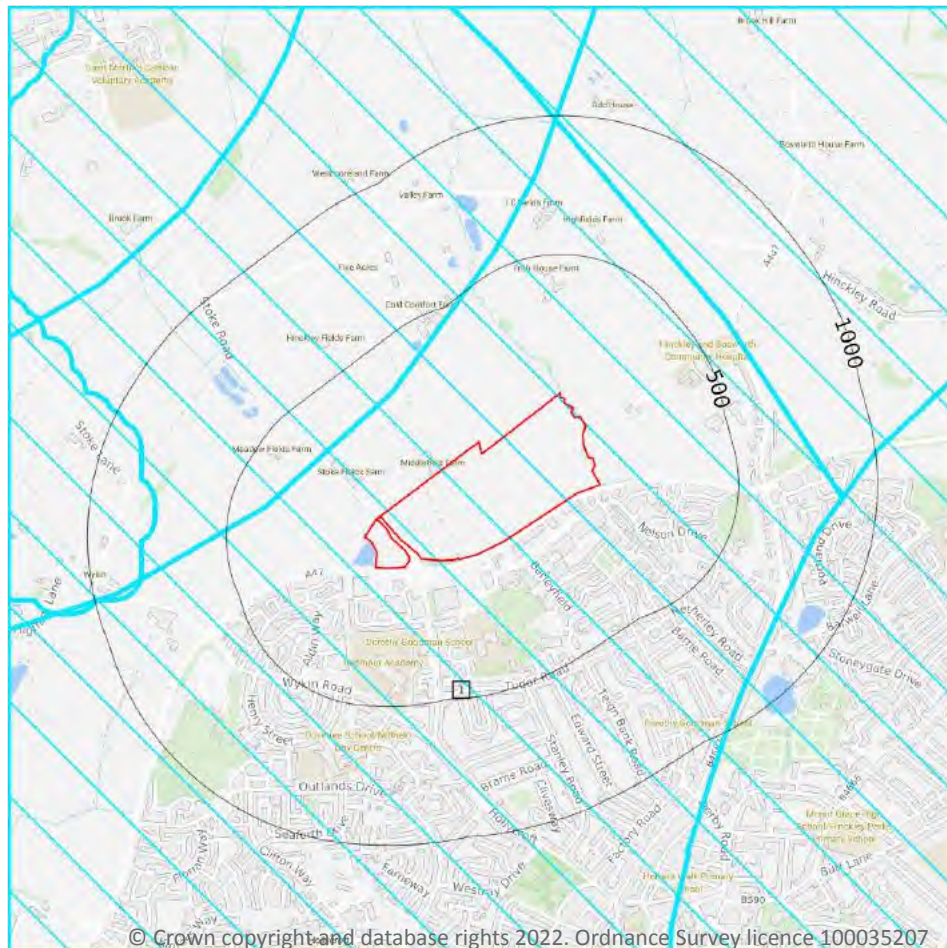
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	River Trent (source to confluence with Derwent)	Surface Water	S308	Changed
On site	River Trent (source to confluence with Derwent)	Surface Water	S308	Changed
1311m S	SOAR R NVZ	Surface Water	S309	Existing
1589m SE	SOAR R NVZ	Surface Water	S309	Existing
1608m N	SOAR R NVZ	Surface Water	S309	Existing
1611m NE	SOAR R NVZ	Surface Water	S309	Existing
1613m NE	River Trent (source to confluence with Derwent)	Surface Water	S308	Changed

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



SSSI Impact Zones and Units



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

10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 72**

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

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
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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

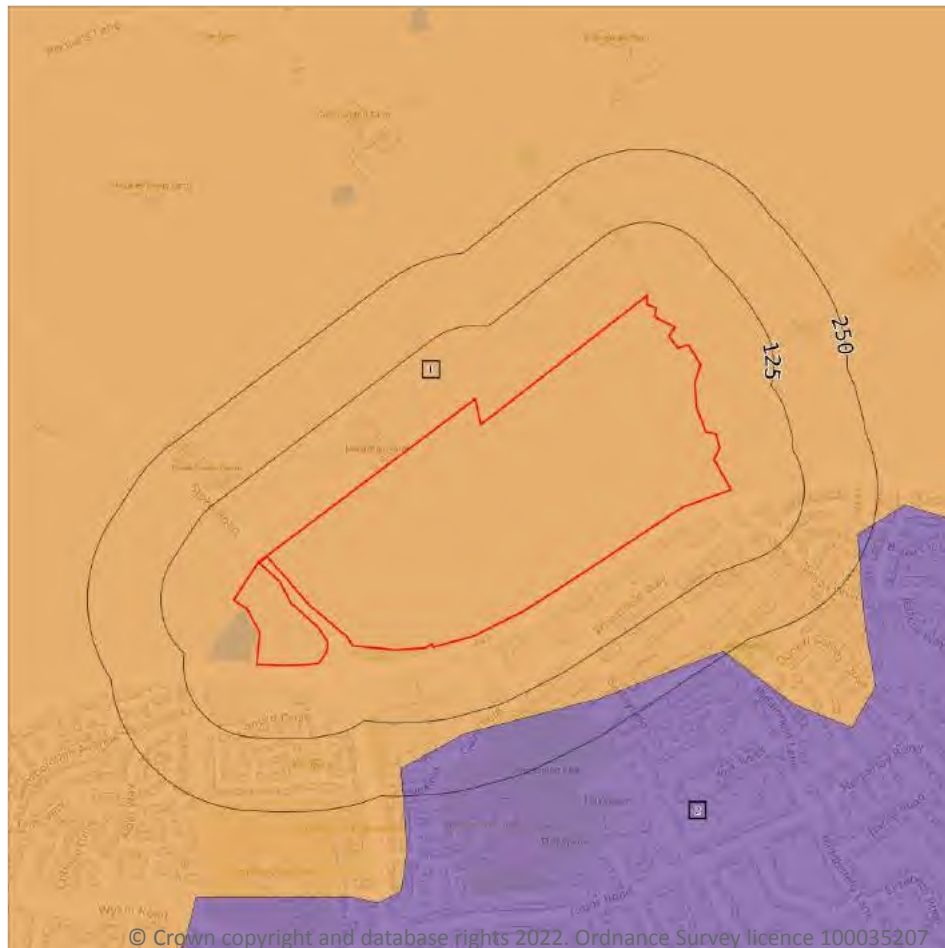
0

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



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

12.1 Agricultural Land Classification

Records within 250m

2

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

Features are displayed on the Agricultural designations map on **page 76**

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.
2	157m S	Urban	-



This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.



13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m**0**

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

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.

