



**Land Adjacent to Woodgate Nurseries
Lidsey Road
Woodgate
West Sussex**

**Preliminary Ground Contamination
Risk Assessment Report**

Report Beneficiary:
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This report is not intended to be either an ecological, archaeological or flood risk assessment. An appropriate specialist should be consulted about any concerns that may arise in this regard.

EXECUTIVE SUMMARY

The following presents a summary of the main findings of the report. It is emphasised that no reliance should be placed on any individual point until the whole of the report has been read as other sections of the report may put into context the information contained herein.

It is proposed to develop the site known as Land Adjacent to Woodgate Nurseries, Lidsey Road, Woodgate, West Sussex. The development proposals are understood to comprise the construction of a number of residential properties with associated garden areas and car parking, new access roads, as well as areas of public open amenity space.

The site comprises a series of interconnected of agricultural fields, separated by hedgerows. An access road, to be retained as part of the development, runs east to west through the centre of the site. The site is bounded by residential properties to the north. The site boundary also wraps around a residential property in the north eastern part of the site. Lidsey Road generally forms the eastern boundary of the site. Agricultural field extent to the south of the site. A nursery is present to the west of the site.

The site has comprised agricultural fields since the earliest mapping in 1874 and no development appears to have taken place since that time.

Reference to geological datasets indicates that the site is expected to be underlain by the River Terrace Deposits overlying the London Clay Formation. Boreholes drilled on the site as part of a previous ground investigation confirmed the underlying soils to comprise a shallow topsoil and/or reworked soils, overlying River Terrace Deposits.

The River Terrace Deposits are classed as a Secondary A Aquifer. The London Clay Formation is classed as an Unproductive Strata. The site does not lie within an Environment Agency Source Protection Zone with regard to the protection of the quality of groundwater that is abstracted for potable supply.

The preliminary contamination risk assessment did not identify any potential pollutant linkages with regard to either proposed end users of the site or controlled waters.

This report should be submitted to support the planning application for the site and the conclusions drawn should be considered as provisional until such time as the report has been approved by the Local Planning Authority.

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1. INTRODUCTION

It is proposed to develop the site known as Land Adjacent to Woodgate Nurseries, Lidsey Road, Woodgate, West Sussex. The development proposals are understood to comprise the construction of a number of residential properties with associated garden areas and car parking, new access roads, as well as areas of public open amenity space. A number of SuDS features including provision of swales and a balancing pond are proposed as part of the development. A copy of the proposed development layout is presented in Appendix A.

Ashdown Site Investigation Ltd was requested to undertake a preliminary ground contamination risk assessment of the site to support a planning application.

The specific objectives of the works were to:

- a) Establish the expected geology, hydrogeology and hydrology at the site;
- b) Ascertain the development history and current site use;
- c) Develop a preliminary conceptual model of the site identifying potential pollutant linkages relating to end users of the proposed development works, to controlled waters beneath and in the vicinity of the site, or to other off-site sensitive receptors, if identified.

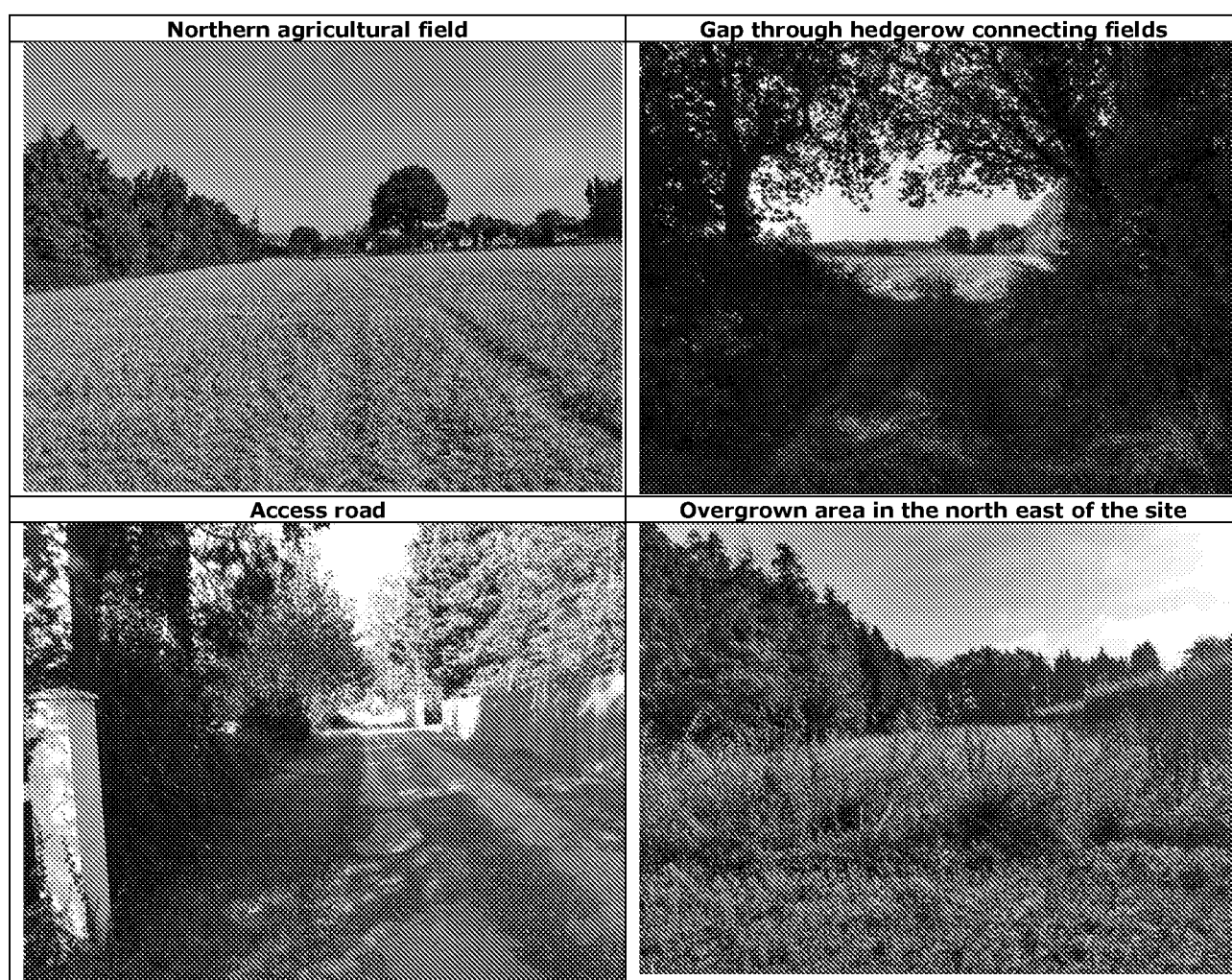
The scope of the works covered by this report, and the terms and conditions under which they were undertaken, were set out within the offer letter Q11245, dated 10th September 2021. The works were undertaken under the clients purchase order ref: PO 138.

Copies of the historical maps and geo-environmental data referred to in this report are presented within Appendix E.

2. SITE WALKOVER SURVEY

The site comprises an irregular shaped plot of land located west of the A29 in Woodgate, West Sussex and is centred on the approximate Ordnance Survey national grid reference 493708 103861. A site location plan and site walkover plan are presented as Figure 1 and Figure 2, respectively.

The site comprises a series of interconnected agricultural fields, separated by hedgerows. An access road, to be retained as part of the development, runs east to west through the centre of the site. Drainage ditches form the boundaries along the north eastern and south western parts of the site. An area in the north eastern part of the site is more overgrown than elsewhere on the site.



The site is bounded by residential properties to the north. The site boundary also wraps around a residential property in the north eastern part of the site. Lidsey Road generally forms the eastern boundary of the site. Agricultural fields extend beyond the southern boundary and a nursery is present to the west of the site.

A commercial estate is located on the eastern side of Lidsey Road, to the north east of the site, which includes a builder's merchant. A cattery is also located on the eastern side of Lidsey Road toward the southern end of the site.

3. ENVIRONMENTAL AND GEO-ENVIRONMENTAL DATA REVIEW

3.1 Geological Data Review

3.1.1 Expected Geology and Aquifer Designation

The stratigraphic succession that may be expected to underlie the site is presented in the following table.

Table 1. Expected Strata and Aquifer Designation

Type	Stratum	Aquifer Designation
Superficial	River Terrace Deposits	Secondary A Aquifer
Bedrock	London Clay Formation	Unproductive Stratum

The River Terrace Deposits generally comprise well graded sandy fine to coarse gravel. Locally sand or gravel strata may predominate. Lenses of clay, silt and localised peat may be present. Gravels normally include a high proportion of subangular flint and chert.

The London Clay Formation comprises a blue grey silty clay, which tends to weather to brown near to the upper surface. With depth, the clay becomes very stiff/hard, is frequently fissured and can contain some inclusions and beds of weak mudstone and siltstone.

3.1.2 BGS Borehole

Two British Geological Survey (BGS) boreholes are identified in the vicinity of the site; one borehole 14m south and one 57m north east of the site.

The boreholes encountered a shallow thickness of topsoil, before progressing into clayey gravelly sands and clayey sandy gravels, before encountering clay deposits. The deeper borehole encountered chalk with flints underlying the clay deposits.

Ashdown Site Investigation Ltd. have also drilled boreholes on the site. Further details of these works are presented in Section 5.

3.1.3 Natural Ground Subsidence

Table 2. Natural Ground Subsidence from Groundsure Data

Section	Risk Assessment
Soil Volume Change Potential (Shrink-Swell)	Low: Ground conditions predominantly medium plasticity.
Running Sands	Negligible: Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
Compressible Deposits	Negligible: Compressible strata are not thought to occur.
Collapsible Deposits	Low: Deposits with potential to collapse when loaded and saturated are possibly present in places.

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Section	Risk Assessment
Landslides	Very Low: Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
Ground Dissolution of Soluble Rocks	Negligible: Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

It should be noted that the assessment provided within the data represents a generic assessment only. In particular the soil volume change potential of the London Clay Formation may be medium or high. A site-specific assessment would require the undertaking of an intrusive ground investigation.

3.1.4 Mining, Ground Workings and Natural Cavities

Table 3. Mining, Extraction and Natural Cavities from Groundsure Data

Section	Risk Assessment
Natural Cavities	No natural cavity records are identified within 500m of the site.
BritPits	Woodgate Brick Field is identified to be located 318m east of the site.
Surface Ground Workings	A brick field is identified 167m east of the site (1950 mapping).
Underground Workings	No underground workings are identified within 1km of the site.
Historical Mineral Planning Areas	No records are identified within 500m of the site.
Non-Coal Mining	The site is not located within an area where historical non-coal mining is likely to have occurred.
Mining Cavities	No records are identified within 1km of the site.
Johnson Poole and Bloomer	JPB do not hold any information relating to mining on the site.
Coal Mining	No coal mining records are identified on site.
Brine Extraction	No brine extraction records are identified on site.
Gypsum Extraction	No gypsum extraction records are identified on site.
Tin Mining	No tin mining records are identified on site.
Clay Mining	No clay mining records are identified on site.

3.1.5 Radon

Table 4. Radon

Section	Risk Assessment
Radon Affected Areas	The site is reported to be within an area where between 1% and 3% of properties are above the action level requiring radon gas protection measures to be installed in new buildings.
Radon Protection Measures	No radon protection measures are reported by the British Geological Survey to be necessary in the construction of new dwellings or extensions.

3.1.6 *Soil Chemistry*

The estimated background soil chemistry does not pose an unacceptable risk in the context of the site. A site-specific assessment would require a ground investigation to enable sampling and testing of the soils.

3.2 *Hydrogeological and Hydrological Data Review*

3.2.1 *Groundwater Abstractions*

The closest groundwater abstraction licence is recorded to lie 1429m to the south west of the site. The abstraction is recorded to be historical and was for "General Farming & Domestic" use.

The closest active groundwater abstraction licence is recorded to lie 1498m to the south west of the site. The abstraction is recorded to be for "Spray Irrigation – Direct" use.

3.2.2 *Surface Water Abstractions*

The closest surface water abstraction licence is recorded to lie 524m to the east of the site. The abstraction is recorded to be for "Spray Irrigation – Direct" use.

3.2.3 *Potable Abstractions*

No potable abstraction licences are indicated within 2km of the site.

3.2.4 *Groundwater Source Protection Zones*

The site does not lie within an Environment Agency Source Protection Zone.

3.2.5 *Surface Water Features*

The nearest recorded significant surface water feature are the drainage ditches located on site.

3.2.6 *River and Coastal Flooding*

3.2.6.1 *Flooding from Rivers and Sea (RoFRaS)*

No RoFRaS records are identified within 50m of the site.

3.2.6.2 *Historical Flood Events*

No historical flood events are identified within 250m of the site.

3.2.6.3 *Flood Defences*

No flood defences or areas benefitting from flood defences are recorded within 250m of the site.

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3.2.6.4 Flood Storage Areas

No flood storage areas are recorded within 250m of the site.

3.2.6.5 Flood Zones

The site does not lie within an Environment Agency Flood Zone 2 or 3.

3.2.7 Surface Water Flooding

The highest surface water flooding risk on is a 1 in 100 year event with a depth between 0.1m-0.3m. The highest risk within 50m of the site is a 1 in 100 year event with a depth between 0.3m-1.0m.

3.2.8 Groundwater Flooding

The highest groundwater flooding risk on site and within 50m of the site is reported to be "Moderate-High".

3.3 Geo-Environmental Data Review

3.3.1 Historical Industrial Sites

The following table summarises past land uses of the site and the surrounding area extracted from 1:10,000 and 1:10,560 historical maps.

Table 5. Historical Industrial Sites

Section	Remarks
Historical Industrial Land Uses Identified from 1:10,560 and 1:10,000 scale mapping	The data identifies a nursery bounding the site to the west (the data initially wrongly identifies the nursery as being on site). The data also identifies the following relevant historical land uses within the vicinity of the site: • Sawmill 10m east of the site (1977-1993); • Nursery 89m north west of the site (1977-1993); • Tank 90m west of the site (1977); • Brick field 167m east of the site (1950).
Historical Tank Database Identified from 1:1,250 and 1:2,500 scale mapping	An unspecified tank is located ~25m west of the site (1974-1992).
Historical Energy Features Identified from 1:1,250 and 1:2,500 scale mapping	No energy features are identified within 100m of the site.
Historical Petrol Stations Identified from 1:1,250 and 1:2,500 scale mapping	No historical petrol stations are identified within 100m of the site.
Historical Garages Identified from 1:1,250 and 1:2,500 scale mapping	No historical garages are identified within 100m of the site.
Historical Military Sites	No historical military sites are identified within 100m of the site.

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3.3.2 Landfill and Other Waste Sites

The following table summarises the location of waste sites either on the site or within the surrounding area (within 250m of the site).

Table 6. Landfill and Other Waste Sites

Section	Remarks
Active or Recent Landfills	Two landfills identified as "Lidsley Landfill Site" are located 324m west and 364m west of the site.
Historical Landfill (BGS Records/LA/Mapping Records EA Records)	No historical landfills are identified within 250m of the site.
Historical Waste Sites	No historical waste sites are identified within 250m of the site.
Licensed Waste Sites	No licensed waste sites are identified within 250m of the site.
Waste Exemptions	A series of waste exemptions are identified at Headgone Farm located 192m south of the site. The exemptions are for use and disposal of waste on a farm.

3.3.3 Current Industrial Land Use

The relevant current industrial land uses are discussed in the table below.

Table 7. Current Industrial Land Uses

Section	Remarks
Recent Industrial Land Use	Tanks are identified 19m west and 38m west of the site. A series of silos are identified 80-97m west of the site. A number of companies in the commercial estate to the east of the site are identified; including a mobility equipment showroom (34m east) and national plastics (135m east).
Current or Recent Petrol stations	No current or recent petrol stations are identified within 100m of the site.
Electricity Cables / Gas Pipelines	No underground high voltage cables or high-pressure pipes are identified within 100m of the site.
Sites determined as Contaminated Land	No sites determined as contaminated land are identified within 100m of the site.
Control of Major Accident Hazards (COMAH) Sites	No COMAH sites are identified within 100m of the site.
Regulated Explosive Sites	No regulated explosive sites are identified within 100m of the site.
Hazardous Substance Storage/Usage	No consents have been granted for hazardous substance storage/usage within 100m of the site.
Historical Licenced Industrial Activities (IPC)	No records are recorded within 100m of the site.
Licenced Industrial Activities (Part A(1))	Lidsley Landfill site is identified 428m south west of the site.
Licenced Pollutant Release (Part A(2)/B)	No records are identified within 100m of the site.
Radioactive Substance Authorisations	No records are identified within 100m of the site.

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Section	Remarks
Licenced Discharges to Controlled Waters	No records are identified within 100m of the site.
Pollutant Release to Surface Water / Public Sewer	No records are identified within 100m of the site.
List 1 / List 2 Dangerous Substances	No records are identified within 100m of the site.
Pollution Incidents (EA/NRW)	Four pollution incidents are identified within 250m of the site and all relate to landfill odour, recorded as having a "minor" impact to air. The closest incident is recorded 55m north west of the site.
Pollution Inventory Substances / Waste Transfers / Radioactive Waste	No records are identified within 100m of the site.

3.3.4 Sensitive Land Use

No sensitive land uses at risk from contamination are identified within 1km of the site.

The site is located within a Nitrate Vulnerable Zone (NVZ). The development proposals are not considered to pose an unacceptable risk to the NVZ.

3.3.5 Railway Infrastructure and Projects

No current railway or associated features are identified within 250m of the site.

4. HISTORICAL MAP REVIEW

Historical Ordnance Survey maps covering the area of the site have been reviewed and are summarised in the following table.

It is noted that each map presents information applicable at the time of the survey (or revision date) and is subject to surveying and cartographic errors and/or advances. Revisions to maps are made at irregular intervals and it is possible that significant developments may have taken place on or within the vicinity of the site that are not shown on the maps.

'In the Vicinity of the Site' generally refers to features of relevance within approximately 250m of the site boundary but may also include more distant features if considered to be pertinent to the assessment of the development history.

Table 8. Summary of Significant Features Identified on Historical Maps

Map Details	On-Site	In the Vicinity of the Site
1876 1:2,500	The site comprises of open fields, which also extend around the site.	A road bounds the site to the east. The only development in the vicinity of the site is a small house to the east of the road. A well is shown associated with the house.
1897 1:2,500		A drain is shown bounding the site to the south west. A track is shown approximately 10m to the north of the site. The area to the north of the site is labelled as a "Nursery".
1937 1:2,500	The existing track running east to west through the site is shown.	Residential development is shown to the north of the site, and also in the area that the north east of the site wraps around. Buildings are shown to the west of the site.
1950 1:10,560		An area denoted as a brick field is shown approximately 160m north east of the site. The small excavation of the brick field is located approximately 270m from the site.
1961 1:10,560		The area to the west / north west of the site has been developed, and a number of buildings are shown. These are considered to be glasshouses from the area's nursery use. Further glasshouses are shown to the west of the site. The brick field is no longer labelled, though the excavation is still shown.
1974 1:2,500		The area to the north and west of the site is shown as a nursery. Tanks are shown approximately 25m west of the site associated with the nursery building and silo 80m west. A saw mill is located approximately 20m to the east of the site.
1979 1:10,000		The area of the former brick field to the north east of the site is now a caravan park.

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Map Details	On-Site	In the Vicinity of the Site
1993 1:10,000		A landfill site is shown approximately 450m to the south west of the site.
1999 Aerial Photo	The site is shown as agricultural fields, with an access track running east to west through the centre of the site.	The nursery is shown to the west / north west of the site. The soils 80m west of the site are evident. The saw mill 20m to the east of the site is now developed as the commercial estate.
2012 Aerial Photo		The nursery buildings to the west / north west of the site are shown as dilapidated.

5. PREVIOUS GROUND INVESTIGATION

Two boreholes have previously been drilled on the site by Ashdown Site Investigation Ltd. The approximate locations of boreholes (designated as WS102 and WS103) are shown on the site plan and were extended to depths of 4.2m and 4.6m, respectively. A copy of the exploratory hole logs are included as Appendix B.

The boreholes encountered a shallow thickness of topsoil and reworked soils or just reworked soils, overlying undisturbed deposits of the River Terrace Deposits comprising initially a gravelly sandy clay which in turn overlay a clayey becoming very gravelly sand.

Standpipes were installed within the boreholes to allow monitoring of the groundwater levels at the site.

6. PRELIMINARY CONTAMINATION RISK ASSESSMENT

6.1 Introduction

The risk assessment considers the potential sources of contamination identified, the receptors that may be present in view of the development proposals and the contaminant pathways by which these may be linked. A complete pollutant linkage is only deemed to exist where all three are present and a site is considered suitable for use where no complete pollutant linkages are identified.

Where a complete pollutant linkage is deemed to be present, an assessment of the level of risk associated with the pollutant linkage has been carried out in line with current guidance¹.

The level of risk is determined using the risk matrix presented in the following table. Classifications of probability, consequence and risk are presented in Appendix C.

Table 9. Risk Assessment Matrix

		Probability			
		Very Low	Low	Moderate	High
Consequence	Very Minor	Negligible	Very Low	Low	Low/Moderate
	Minor	Very Low	Low	Low/Moderate	Moderate
	Moderate	Low	Low/Moderate	Moderate	High
	Severe	Low/Moderate	Moderate	High	Very High

6.2 Basis of Assessment

The development is to comprise new residential buildings together with areas of private garden where end users can expect to come into contact with the underlying soils, where soil derived dusts may be generated and where the growing of fruit and vegetables may feasibly occur.

The proposed development layout is presented in Appendix A. Should the proposed development plans be altered, a revised risk assessment may be required.

6.3 Potential Contamination Sources Identified

The site would appear to have only ever been used as agricultural fields, with the exception of the access road which is to be retained within the new development.

Previous limited ground investigation on the site did not encounter any potentially contaminated soils (e.g. made ground), only topsoil and reworked River Terrace Deposits (reworked as a result of ploughing and root action). No anthropogenic matter (e.g. brick, concrete, clinker or ash-like materials) was recorded within the shallow soils.

The area to the west and north west of the site has historically been used as a nursery, with glass houses (now dilapidated) bounding the site. Tanks and silos associated with the nursery are identified to the west of the site (25m and 80m, respectively). Although historical nursery use may have resulted in contamination of the adjacent site, it is considered unlikely that

¹ Contaminated Land Risk Assessment: A guide to good practice, CIRIA C552, 2001.

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significant amounts of mobile contaminants would be generated and as such the risk to the assessment site from the adjacent historical nursery is considered to be very low.

A number of historical and current land uses are identified on the eastern side of Lidsey Road. Again, whilst these may have given rise to contamination on the sites in question, given the distance of these areas from the assessment site, they are not considered to represent viable sources of potential contamination.

A small brick field was identified in the post war period, some 160m to the north east of the site. The small excavation associated with the brick field is shown ~270m north east of the site. The geo-environmental data actually identifies the brick field to be ~318m to the east of the site. It is not certain whether the brick field has ever been backfilled and, given this uncertainty and the distance of the excavation features from the site, this is not considered to represent a potential source of ground gas generation which could feasibly impact the site.

The geo-environmental data identifies a historical landfill which may have extended as close as 324m to the west of the site. However, such a distance is considered to be too far from the site as to pose an unacceptable risk to the site.

A number of waste exemptions are identified at Headgone Farm located 192m south of the site. Given the distance from the site, these are not considered to represent viable sources of contamination that could impact the site.

6.4 Preliminary Conceptual Model

No viable potential sources of contamination have been identified by the preliminary assessment.

The preliminary conceptual model for the proposed development, confirming the absence of any potential pollutant linkages, is presented in Appendix D.

6.5 Discovery Strategy

Although no complete pollutant linkages are considered to be present relating to end users of the development or controlled waters beneath the site if, during the course of the site clearance and development works, any materials not previously identified by the investigation that are suspected of being 'contaminants' are encountered, then the following procedure should apply:

- All works in that area should cease and the site manager should be informed.
- Advice should be sought from suitably qualified and experienced personnel as to whether any further site inspection, sampling, testing and/or assessment is deemed necessary.
- If required, the conclusions of any assessment and any proposed remedial works (if required) should be agreed by the local authority.
- If necessary, full details of any remedial works should be included in a verification report for the site.

Suspected 'contamination' may take the following form, though it is noted that this list is not exhaustive and site operatives should ask if they are at all unsure of any findings:

- Soil or water looks oily and/or has an oily odour
- Soil or water has a solvent type of odour
- Significant quantities of man-made materials within fill such as paint cans, car parts, glass fragments

- Suspected asbestos containing materials (insulating boards, cement, loose fibres etc.)
- Significant volumes of clinker like or ashy material
- Sand bags, and or/ subsurface concrete structures
- Animal carcasses or evidence of animal burial pits

6.6 Regulatory Approval

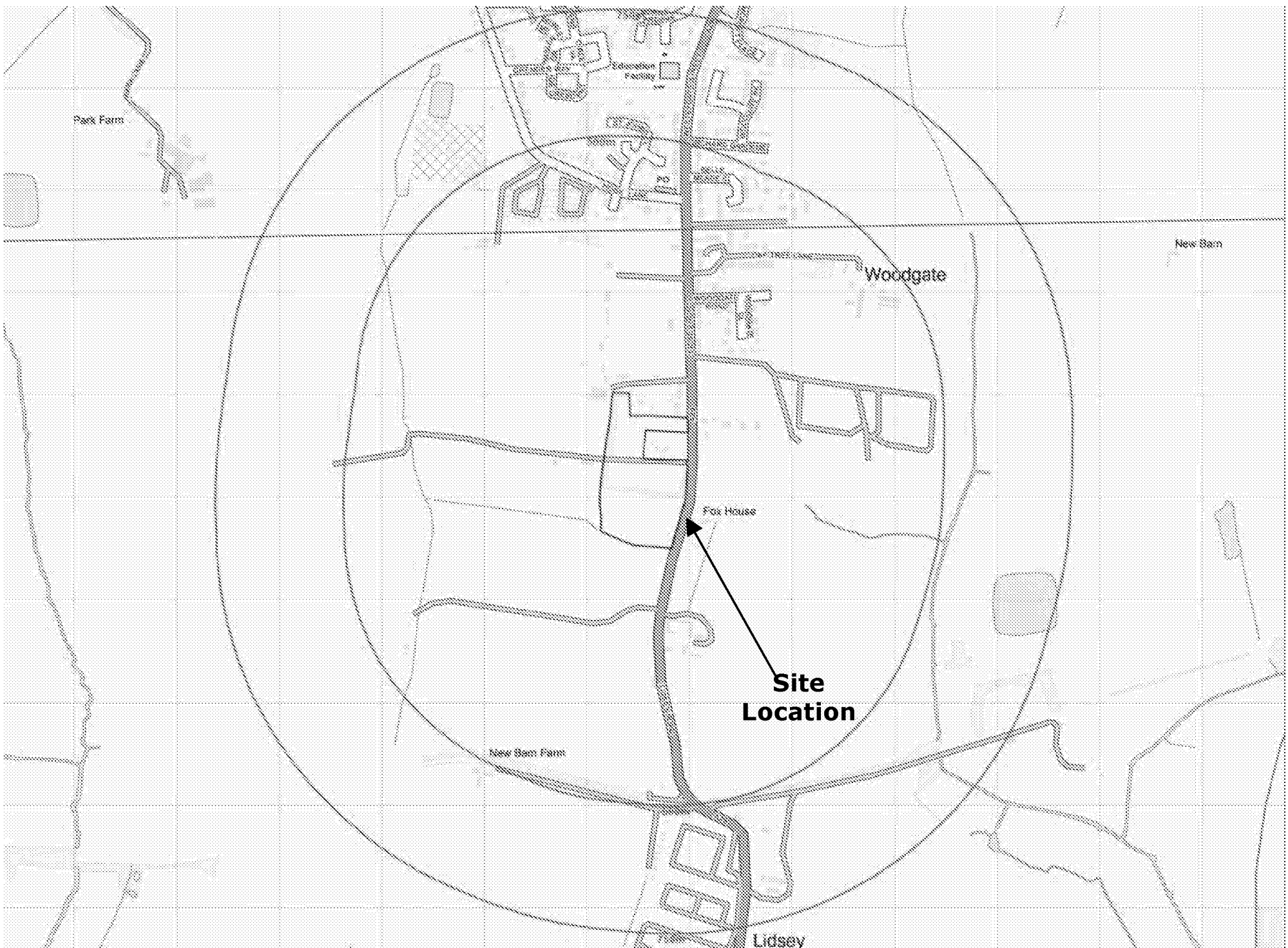
This report should be submitted to the Local Planning Authority to support a planning application for the site.

The contents of this report and the conclusions drawn should be considered to be provisional until such time as the report is approved by the Local Planning Authority.

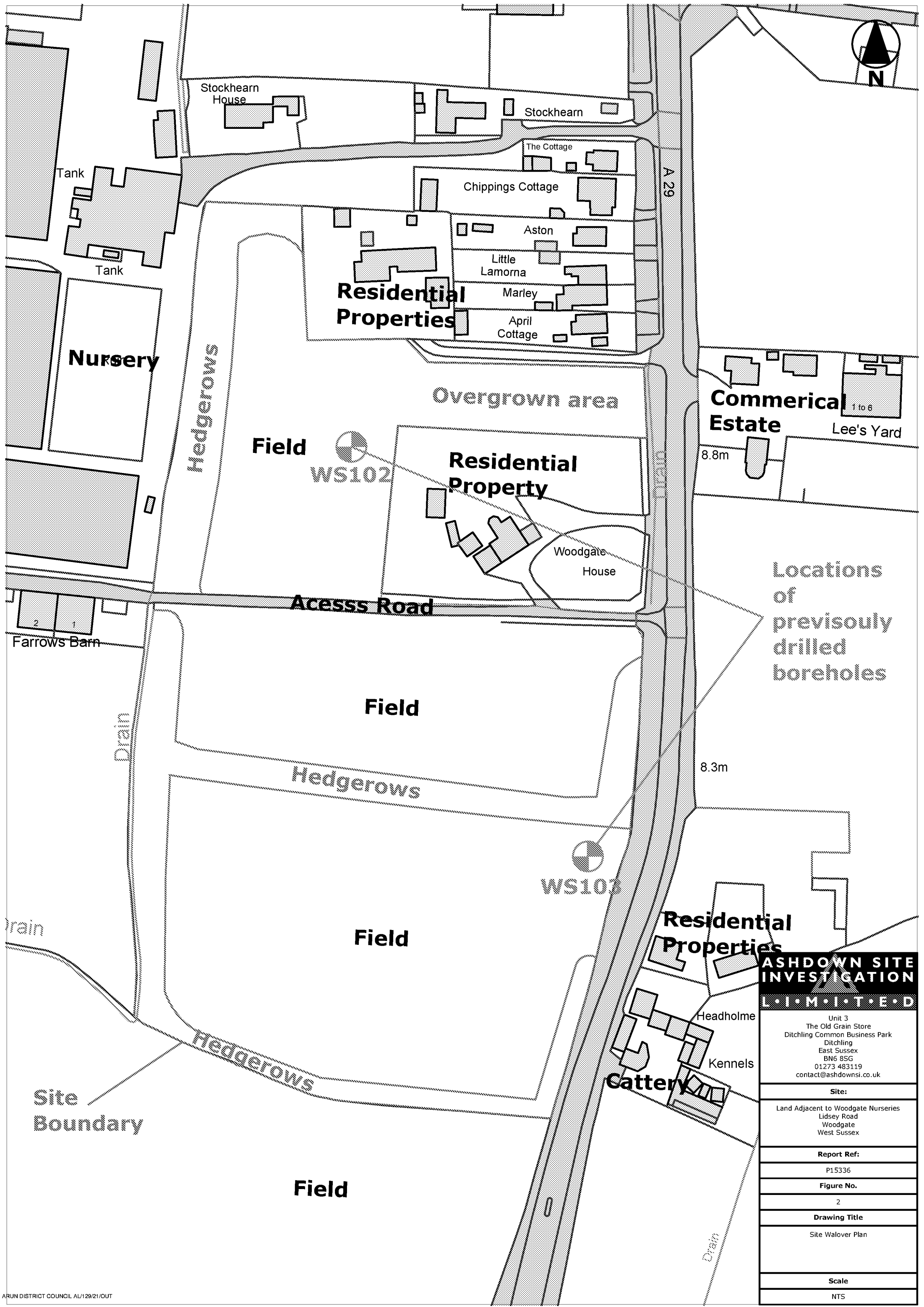
Ashdown Site Investigation Ltd.

FIGURES

- Figure 1 Site Location Plan
- Figure 2 Site Walkover Plan



ASHDOWN SITE INVESTIGATION LIMITED	Site Location Plan	Site Name	Figure No.	Project Reference
		Land Adjacent to Woodgate Nurseries, Lidsey Road, Woodgate, West Sussex	1	P15346



ASHDOWN SITE INVESTIGATION

L · I · M · I · T · E · D

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Site:

Land Adjacent to Woodgate Nurseries
Lidsey Road
Woodgate
West Sussex

Report Ref:

P15336

Figure No.

2

Drawing Title

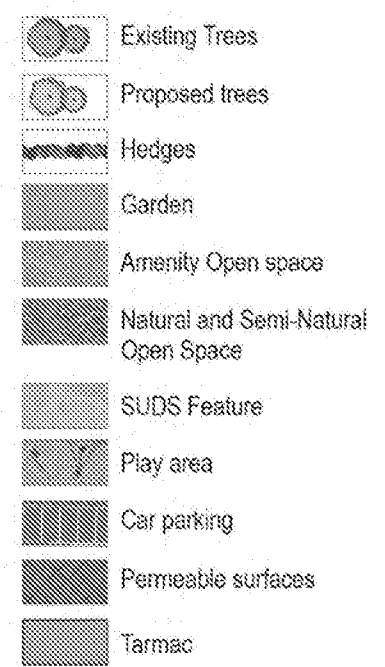
Site Walover Plan

Scale

NTS

APPENDIX A

Proposed Development Layout



On behalf of:

Hanbury Properties

Produced by:
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ARCHITECTS
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PROJECT:
Land Adjacent to Woodgate Nurseries

DRAWING TITLE:
Illustrative Masterplan

DATE: 21.09.21 SCALE: 1:1000

REPORT REFERENCE: DLA 20521 26 509

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APPENDIX B

Previous Borehole Logs

NOTES FOR THE INTERPRETATION OF EXPLORATORY HOLE RECORDS

1 Symbols and abbreviations

Samples

U	'Undisturbed' Sample: - 100mm diameter by 450mm long. The number of blows to drive in the sampling tube is shown after the test index letter in the SPT column.
U _o	Sample not obtained
U*	Full penetration of sample not obtained
Pi	Piston Sample: 'Undisturbed' sample 100mm diameter by 600mm long.
D	Disturbed Sample
R	Root Sample
B	Bulk Disturbed Sample
W	Water Sample
J	Jar Sample (sample taken in amber glass jar fitted with gas tight lid)
T	Tub Sample
Vi	Vial Sample

In situ Testing

S	Standard penetration test (SPT): Using the split spoon sampler.
C	Standard Penetration Test (SPT): using a solid cone instead of the sampler - conducted usually in coarse grained soils or weak rocks.
V	Shear Vane Test: Undrained shear strength (cohesion) (kN/m ²) shown within the Vane/Pen Test and N Value column.
H	Hand penetrometer Test: Undrained shear strength (cohesion) (kN/m ²) shown within the Vane/Pen Test and N Value column.
P	Perth Penetrometer Test: Number of blows for 300mm penetration shown under Vane/Pen Test and N Value column.

Excavation Method

CP	Cable Percussion Borehole
WLS	Dynamic Sampler Borehole using windowless sampler tubes
WS	Dynamic Sampler Borehole using window sampler tubes
TP	Trial Pit excavated using mechanic excavator
HDP	Trial Pit excavated using hand tools

2 Soil Description

Description and classification of soils has been carried out using as a general basis the British Standard Geotechnical investigation and testing – Identification and classification of soil, Part 1 Identification and description (BS EN ISO 14688-1) and Part 2 Principles of classification (BS EN 14688-2) as well as the BS5930 code of Practice for Ground Investigations.

3 Rock Description

Description and classification of rocks has been carried out using as a general basis the British Standard Geotechnical investigation and testing – Identification and classification of rock, Part 1 Identification and classification (BS EN ISO 14689-1) as well as the BS5930 code of Practice for Ground Investigations. TCR – Total Core Recovery, SCR – Solid Core Recovery, RQD – Rock Quality Designation, NI – Non Intact, If – indicative fracture spacing (min/ave/max), FI – Fracture Index.

4 Chalk Description

Chalk description is based on BS EN ISO 14688, BS EN ISO 14689 and BS5930. The classification of chalk generally follows the guidance offered by the Construction Industry Research and Information Association (CIRIA) C574, 'Engineering in Chalk'. This is based on assessment of chalk density, discontinuity and aperture spacing, and the proportion of intact chalk to silt of chalk.

Site Name: Woodgate, West Sussex

Job Number: P14891

Start Date: 19/11/2020

End Date: 19/11/2020

Borehole Number: **WS102**

Sheet 1 of 1

Standpipe		Samples and In Situ Testing		Legend		Depth		Stratum Description	
Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result						
						0.00		Topsoil.	
						0.10		REWORKED: Brown and dark brown gravelly sandy clay. Gravel is angular to subrounded fine to coarse flint.	
						0.40		Orange brown, brown and grey gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse. (River Terrace Deposits)	
						1.60		Orange brown silty clayey fine to coarse SAND. (River Terrace Deposits)	
						3.40		Orange brown and brown very gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)	
						4.20		End of borehole at 4.20m	

Remarks

Groundwater: Groundwater encountered at 0.45m depth.

Stability: Borehole cased to 3.00m depth.

Borehole collapsed to 2.50m depth on completion.

Notes: No further progress below 4.20m depth.

Standpipe installed to 2.50m depth; 2.50m to 0.50m slotted pipe with gravel surround; 0.50m to ground level plain pipe with bentonite seal; completed with end cap and upstanding cover.

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

Site Name: Woodgate, West Sussex

Job Number: P14891

Start Date: 19/11/2020

End Date: 19/11/2020

Borehole Number:

WS103

Sheet 1 of 1

Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Legend	Depth	Stratum Description
	D	0.20				0.00	REWORKED: Brown gravelly sandy clay. Gravel is angular to subrounded fine to coarse flint.
	D	0.70				0.35	Orange brown and brown gravelly sandy CLAY. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	D	1.30					
	D	1.90				1.70	Orange brown and brown clayey silty fine to coarse SAND. (River Terrace Deposits)
	D	2.60					
	D	3.60				3.00	Orange brown very gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (River Terrace Deposits)
	D	4.20					
						4.60	End of borehole at 4.60m

Remarks

Groundwater: Groundwater at 0.56m depth on completion.

Stability: Borehole cased to 3.00m depth.

Borehole collapsed to 3.40m depth on completion.

Notes: No further progress below 4.60m depth.

Standpipe installed to 3.40m depth; 3.40m to 0.40m slotted pipe with gravel surround; 0.40m to ground level plain pipe with bentonite seal; completed with end cap and upstanding cover.

Excavation Method: WLS

Borehole Diameter: Various

Made By: RJ

APPENDIX C

Classification of Probability, Consequence and Risk

Probability of risk being realised	
Classification	Definition
High	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution.
Moderate	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Very Low	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

Consequence of risk being realised		
Classification	Category	Definition
Severe	Human Health	Short term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part IIA.
	Controlled Waters	Short term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource.
	Property	Catastrophic damage to buildings/property.
	Ecological Systems	A short term risk to a particular ecosystem or organisation forming part of such ecosystem.
Moderate	Human Health	Chronic damage to Human Health.
	Controlled Waters	Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution).
	Ecological System	A significant change in a particular ecosystem or organism forming part of such ecosystem.
Minor	Controlled Waters	Pollution of non-sensitive water resources.
	Property	Significant damage to crops, buildings, structures and services.
	Ecological Systems	Damage to sensitive buildings/structures/services or the environment.
Very Minor	Human Health	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc).
	Property	Easily repairable effects of damage to buildings, structures and services.
	Project	Harm, although not necessarily significant harm, which may result in a financial loss or expenditure to resolve.

Risk classification definitions	
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the long term.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Low	It is possible that harm could arise to a designated receptor from an identified hazard, but there is a low likelihood of this hazard occurring and if realised, harm would at worst normally be mild.
Very Low	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised, it is not likely to be severe.

APPENDIX D

Preliminary Conceptual Model

Land Adjacent to Woodgate Nurseries, Lidsey Road, Woodgate, West Sussex				Preliminary Conceptual Model		P15346	
Potential Source	Potential Receptor	Potential Contaminants	Potential Pathway	Complete Linkage Present?	Probability	Consequence	Risk
None Identified	End Users		Dermal contact with soil and dust (indoor & outdoor)	No potential contaminants identified			N/A
			Ingestion of soil and indoor dust	No potential contaminants identified			N/A
			Consumption of home-grown produce and attached soil	No potential contaminants identified			N/A
			Inhalation of soil dust (indoor and outdoor)	No potential contaminants identified			N/A
			Inhalation of soil vapours	No potential contaminants identified			N/A
			Inhalation of soil gases/ Risk of explosion	No potential gas source identified			N/A
	End Users (via Water Supply Pipework)		Contamination of incoming services	No potential contaminants identified			N/A
	Groundwater		Migration to groundwater	No contaminants likely to impact groundwater identified			N/A

APPENDIX E

Groundsure Report
Historical Maps

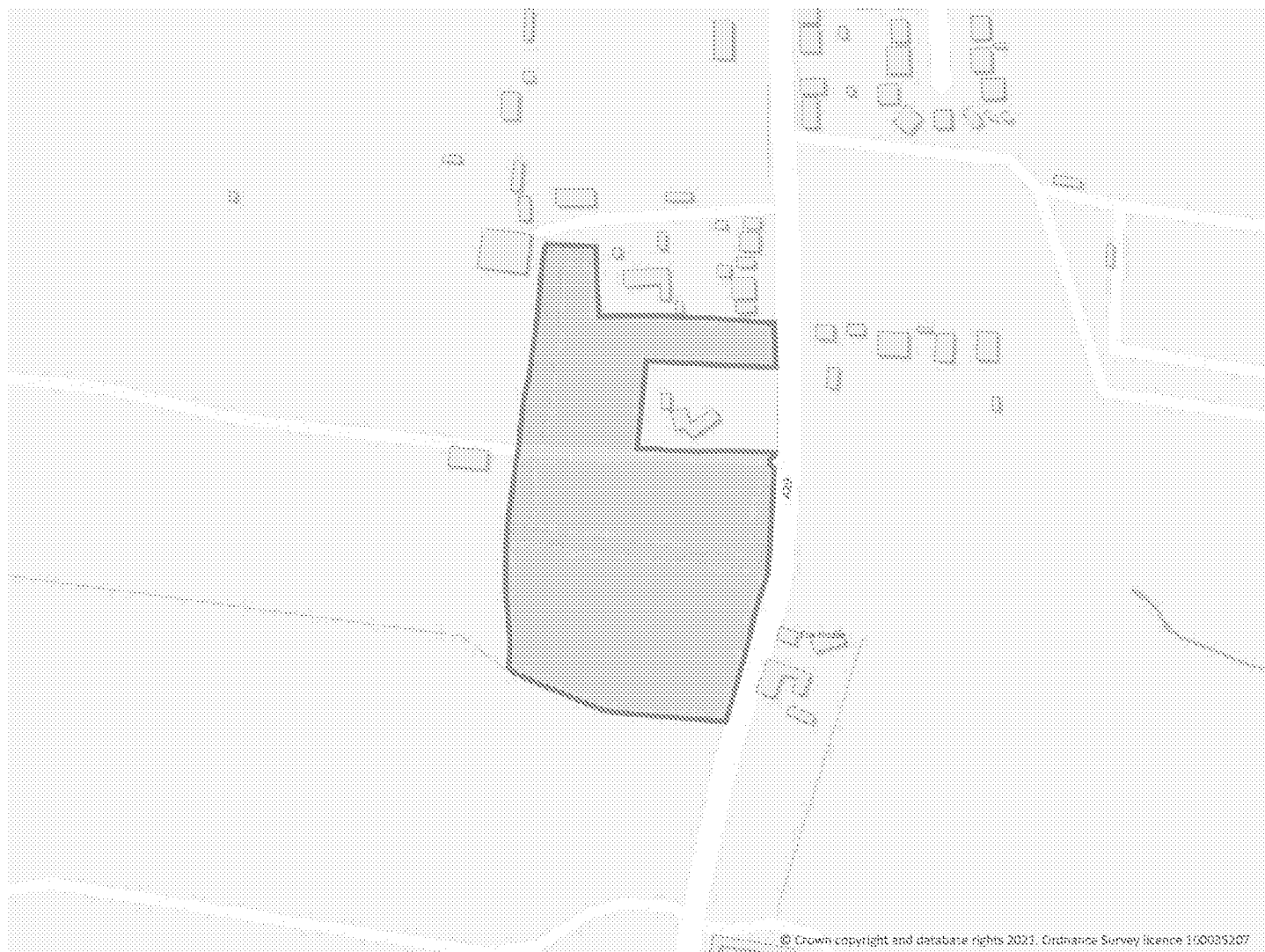
LAND AT, WOODGATE NURSERIES, LIDSEY ROAD, WOODGATE, PO20 3SU

Order Details

Date: 16/09/2021
Your ref: P15346
Our Ref: GS-8198482
Client: Ashdown Site Investigation Ltd

Site Details

Location: 493708 103861
Area: 3.63 ha
Authority: Arun District Council



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.13

Contact us with any questions at:
info@groundsure.com

Summary of findings

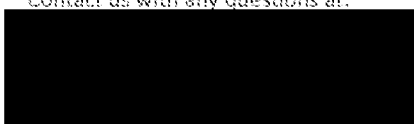
Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	2	3	4	11	-
15	1.2	Historical tanks	0	4	0	5	-
16	1.3	Historical energy features	0	0	3	11	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
18	2.1	Historical industrial land uses	2	3	4	14	-
19	2.2	Historical tanks	0	4	0	6	-
20	2.3	Historical energy features	0	0	8	17	-
21	2.4	Historical petrol stations	0	0	0	0	-
21	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
22	3.1	Active or recent landfill	0	0	0	2	-
23	3.2	Historical landfill (BGS records)	0	0	0	0	-
23	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
23	3.4	Historical landfill (EA/NRW records)	0	0	0	1	-
24	3.5	Historical waste sites	0	0	0	0	-
24	3.6	Licensed waste sites	0	0	0	0	-
24	3.7	Waste exemptions	0	0	12	2	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
26	4.1	Recent industrial land uses	0	3	8	-	-
27	4.2	Current or recent petrol stations	0	0	0	0	-
27	4.3	Electricity cables	0	0	0	0	-
27	4.4	Gas pipelines	0	0	0	0	-
28	4.5	Sites determined as Contaminated Land	0	0	0	0	-

28	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
28	4.7	Regulated explosive sites	0	0	0	0	-
28	4.8	Hazardous substance storage/usage	0	0	0	0	-
28	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
29	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	0	2	-
29	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
29	4.12	Radioactive Substance Authorisations	0	0	0	0	-
30	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	1	0	-
30	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
30	4.15	Pollutant release to public sewer	0	0	0	0	-
30	4.16	List 1 Dangerous Substances	0	0	0	0	-
31	4.17	List 2 Dangerous Substances	0	0	0	0	-
31	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	5	1	-
32	4.19	Pollution inventory substances	0	0	0	0	-
32	4.20	Pollution inventory waste transfers	0	0	0	0	-
32	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
33	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
34	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
35	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
36	5.4	<u>Groundwater vulnerability- soluble rock risk</u>	Identified (within 0m)				
36	5.5	Groundwater vulnerability- local information	None (within 0m)				
37	5.6	<u>Groundwater abstractions</u>	0	0	0	0	3
38	5.7	<u>Surface water abstractions</u>	0	0	0	0	38
47	5.8	Potable abstractions	0	0	0	0	0
47	5.9	Source Protection Zones	0	0	0	0	-
47	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
48	6.1	<u>Water Network (OS MasterMap)</u>	1	2	11	-	-

50	6.2	<u>Surface water features</u>	1	1	3	-	-
50	6.3	<u>WFD Surface water body catchments</u>	2	-	-	-	-
50	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
51	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
52	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
52	7.2	Historical Flood Events	0	0	0	-	-
52	7.3	Flood Defences	0	0	0	-	-
52	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
53	7.5	Flood Storage Areas	0	0	0	-	-
54	7.6	Flood Zone 2	None (within 50m)				
54	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
55	8.1	<u>Surface water flooding</u>	1 in 100 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
57	9.1	<u>Groundwater flooding</u>	Moderate-High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
58	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
59	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
59	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
59	10.4	Special Protection Areas (SPA)	0	0	0	0	0
59	10.5	National Nature Reserves (NNR)	0	0	0	0	0
60	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
60	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	1
60	10.8	Biosphere Reserves	0	0	0	0	0
60	10.9	Forest Parks	0	0	0	0	0
61	10.10	Marine Conservation Zones	0	0	0	0	0
61	10.11	Green Belt	0	0	0	0	0
61	10.12	Proposed Ramsar sites	0	0	0	0	0

61	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
61	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
62	10.15	Nitrate Sensitive Areas	0	0	0	0	0
62	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	1	3
63	10.17	<u>SSSI Impact Risk Zones</u>	2	-	-	-	-
64	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
65	11.1	World Heritage Sites	0	0	0	-	-
65	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
65	11.3	National Parks	0	0	0	-	-
65	11.4	Listed Buildings	0	0	0	-	-
66	11.5	Conservation Areas	0	0	0	-	-
66	11.6	Scheduled Ancient Monuments	0	0	0	-	-
66	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
67	12.1	<u>Agricultural Land Classification</u>	Grade 2 (within 250m)				
68	12.2	Open Access Land	0	0	0	-	-
68	12.3	Tree Felling Licences	0	0	0	-	-
68	12.4	Environmental Stewardship Schemes	0	0	0	-	-
69	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
70	13.1	Priority Habitat Inventory	0	0	0	-	-
70	13.2	Habitat Networks	0	0	0	-	-
70	13.3	Open Mosaic Habitat	0	0	0	-	-
70	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
71	14.1	<u>10k Availability</u>	Identified (within 500m)				
72	14.2	<u>Artificial and made ground (10k)</u>	0	0	0	3	-
73	14.3	<u>Superficial geology (10k)</u>	1	0	1	4	-

74	14.4	Landslip (10k)	0	0	0	0	-
75	14.5	<u>Bedrock geology (10k)</u>	1	0	0	1	-
76	14.6	<u>Bedrock faults and other linear features (10k)</u>	1	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
77	15.1	<u>50k Availability</u>	Identified (within 500m)				
78	15.2	Artificial and made ground (50k)	0	0	0	0	-
78	15.3	Artificial ground permeability (50k)	0	0	-	-	-
79	15.4	<u>Superficial geology (50k)</u>	1	0	1	2	-
80	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
80	15.6	Landslip (50k)	0	0	0	0	-
80	15.7	Landslip permeability (50k)	None (within 50m)				
81	15.8	<u>Bedrock geology (50k)</u>	1	0	0	2	-
82	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
82	15.10	<u>Bedrock faults and other linear features (50k)</u>	1	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
83	16.1	<u>BGS Boreholes</u>	0	1	2	-	-
Page	Section	Natural ground subsidence					
85	17.1	<u>Shrink swell clays</u>	Low (within 50m)				
86	17.2	<u>Running sands</u>	Low (within 50m)				
87	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
88	17.4	<u>Collapsible deposits</u>	Low (within 50m)				
89	17.5	<u>Landslides</u>	Very low (within 50m)				
90	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
91	18.1	Natural cavities	0	0	0	0	-
92	18.2	<u>BritPits</u>	0	0	0	1	-
92	18.3	<u>Surface ground workings</u>	0	0	1	-	-
92	18.4	Underground workings	0	0	0	0	0
93	18.5	Historical Mineral Planning Areas	0	0	0	0	-



93	18.6	Non-coal mining	0	0	0	0	0
93	18.7	Mining cavities	0	0	0	0	0
93	18.8	IPB mining areas	None (within 0m)				
93	18.9	Coal mining	None (within 0m)				
94	18.10	Brine areas	None (within 0m)				
94	18.11	Gypsum areas	None (within 0m)				
94	18.12	Tin mining	None (within 0m)				
94	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
95	19.1	Radon	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
96	20.1	BGS Estimated Background Soil Chemistry	3	0	-	-	-
96	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
96	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
97	21.1	Underground railways (London)	0	0	0	-	-
97	21.2	Underground railways (Non-London)	0	0	0	-	-
97	21.3	Railway tunnels	0	0	0	-	-
97	21.4	Historical railway and tunnel features	0	0	0	-	-
97	21.5	Royal Mail tunnels	0	0	0	-	-
98	21.6	Historical railways	0	0	0	-	-
98	21.7	Railways	0	0	0	-	-
98	21.8	Crossrail 1	0	0	0	0	-
98	21.9	Crossrail 2	0	0	0	0	-
98	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 28/06/2018

Site Area: 3.63ha

Recent site history - 2015 aerial photograph



Capture Date: 20/05/2015

Site Area: 3.63ha

Recent site history - 2013 aerial photograph



Capture Date: 03/05/2013

Site Area: 3.63ha

Recent site history - 2012 aerial photograph



Capture Date: 13/09/2012

Site Area: 3.63ha

Recent site history - 1999 aerial photograph

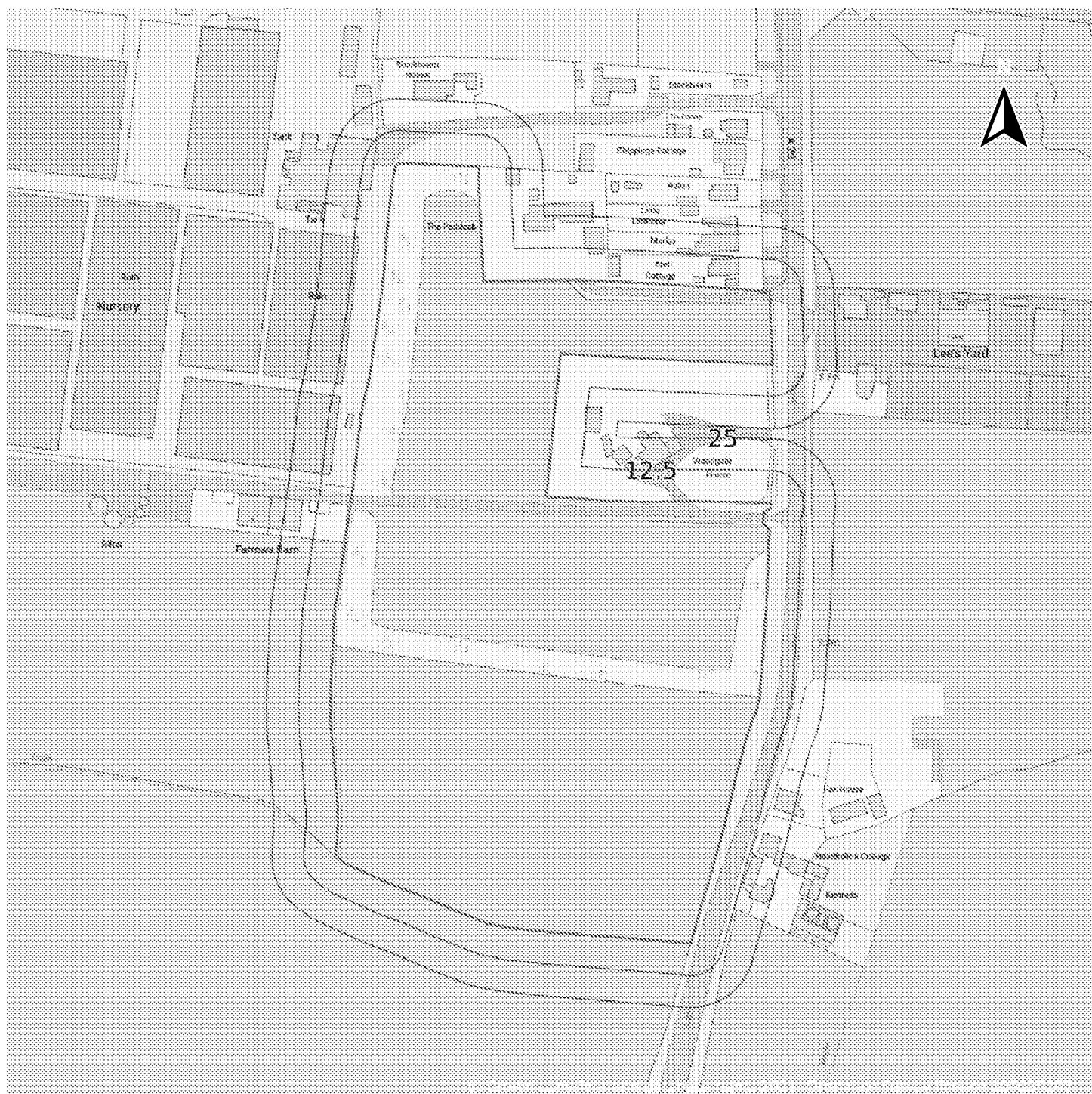


Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2021. All Rights Reserved.

Capture Date: 06/09/1999

Site Area: 3.63ha

OS MasterMap site plan



Site Area: 3.63ha

1 Past land use



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

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1.1 Historical industrial land uses

Records within 500m

20

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

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

ID	Location	Land use	Dates present	Group ID
A	On site	Nursery	1993	1899579

ID	Location	Land use	Dates present	Group ID
A	On site	Nursery	1977	1935152
A	3m W	Nursery	1896	1944284
B	18m E	Sawmill	1977	1924358
B	18m E	Sawmill	1993	1960582
1	89m NW	Nursery	1993	1913108
2	89m NW	Nursery	1977	1960520
3	90m W	Unspecified Tank	1977	1859317
4	167m E	Brick Field	1950	1884752
5	293m E	Unspecified Pit	1950 - 1961	1939466
6	382m W	Landfill Site	1993	1874847
E	391m NE	Cuttings	1950 - 1961	1904732
E	394m NE	Cuttings	1938	1892361
7	426m NE	Nursery	1977	1868102
9	455m NW	Nursery	1993	1868098
H	466m S	Old Canal	1977	1964169
H	469m S	Disused Canal	1875 - 1910	2367196
H	471m S	Disused Canal	1950	1890318
H	471m S	Disused Canal	1938	2368291
H	475m S	Disused Canal	1961	2369080

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	9
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
C	25m W	Unspecified Tank	1974	313569
C	27m W	Unspecified Tank	1992	318810
C	30m W	Unspecified Tank	1974	327479
C	32m W	Unspecified Tank	1992	316425
B	436m NE	Tanks	1973	311440
I	493m NW	Tanks	1975	320459
I	493m NW	Tanks	1992	325666
I	494m NW	Tanks	1994 - 1995	313323
I	494m NW	Tanks	1995	316547

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	14
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
D	163m N	Electricity Substation	1995	199809
D	164m N	Electricity Substation	1974 - 1995	206281
D	165m N	Electricity Substation	-	187727
F	392m N	Gas Governor	1975	191996
F	400m N	Gas Governor	1994 - 1995	206127
F	400m N	Gas Governor	1992	201635
F	407m N	Gas Valve House	-	187626
F	407m N	Gas Valve House	1975	191741
G	438m N	Electricity Substation	-	187726

ID	Location	Land use	Dates present	Group ID
G	438m N	Electricity Substation	1992 - 1995	205373
G	441m N	Electricity Substation	1975	201879
J	493m N	Gas Governor	1995	200610
J	494m N	Gas Governor	1975	205766
J	494m N	Gas Governor	1992	208330

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

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2.1 Historical industrial land uses

Records within 500m

23

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 18](#)

ID	Location	Land Use	Date	Group ID
A	On site	Nursery	1993	1899579
A	On site	Nursery	1977	1935152
A	3m W	Nursery	1896	1944284

ID	Location	Land Use	Date	Group ID
B	18m E	Sawmill	1993	1960582
B	18m E	Sawmill	1977	1924358
1	89m NW	Nursery	1993	1913108
2	89m NW	Nursery	1977	1960520
3	90m W	Unspecified Tank	1977	1859317
4	167m E	Brick Field	1950	1884752
E	293m E	Unspecified Pit	1961	1939466
E	297m E	Unspecified Pit	1950	1939466
S	382m W	Landfill Site	1993	1874847
F	391m NE	Cuttings	1961	1904732
F	394m NE	Cuttings	1950	1904732
F	394m NE	Cuttings	1938	1892361
6	426m NE	Nursery	1977	1868102
8	455m NW	Nursery	1993	1868098
I	466m S	Old Canal	1977	1964169
I	469m S	Disused Canal	1876	2367196
I	471m S	Disused Canal	1950	1890318
I	471m S	Disused Canal	1938	2368291
I	471m S	Disused Canal	1896	2367196
I	475m S	Disused Canal	1961	2369080

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	10
----------------------------	-----------

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 18**

ID	Location	Land Use	Date	Group ID
C	25m W	Unspecified Tank	1974	313569
C	27m W	Unspecified Tank	1992	318810
C	30m W	Unspecified Tank	1974	327479
C	32m W	Unspecified Tank	1992	316425
7	436m NE	Tanks	1973	311440
J	493m NW	Tanks	1975	320459
J	493m NW	Tanks	1992	325686
J	494m NW	Tanks	1995	316547
J	494m NW	Tanks	1994	313323
J	494m NW	Tanks	1995	313323

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	25
----------------------------	-----------

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 18**

ID	Location	Land Use	Date	Group ID
D	163m N	Electricity Substation	1995	199809
D	164m N	Electricity Substation	1974	206281
D	165m N	Electricity Substation	1975	206281
D	165m N	Electricity Substation	1975	206281
D	165m N	Electricity Substation	1992	206281
D	165m N	Electricity Substation	-	187727
D	165m N	Electricity Substation	1994	206281
D	165m N	Electricity Substation	1995	206281
G	392m N	Gas Governor	1975	191996
G	400m N	Gas Governor	1994	206127

ID	Location	Land Use	Date	Group ID
G	400m N	Gas Governor	1995	206127
G	400m N	Gas Governor	1992	201635
G	401m N	Gas Governor	1995	206127
G	407m N	Gas Valve House	-	187626
G	407m N	Gas Valve House	1975	191741
H	438m N	Electricity Substation	1995	205373
H	438m N	Electricity Substation	-	187726
H	438m N	Electricity Substation	1994	205373
H	438m N	Electricity Substation	1995	205373
H	441m N	Electricity Substation	1975	201879
H	441m N	Electricity Substation	1975	201879
H	441m N	Electricity Substation	1992	205373
K	493m N	Gas Governor	1995	200610
K	494m N	Gas Governor	1975	205766
K	494m N	Gas Governor	1992	208330

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Active or recent landfill
- Historical landfill (EA/NRW)
- Waste exemptions

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3.1 Active or recent landfill

Records within 500m

2

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 22**

ID	Location	Details	
2	324m W	Operator: Sita Southern Ltd Site Address: Lidsey Landfill Site, Lidsey Road, Lidsey, Bognor Regis, West Sussex, PO22 9PL	WML Number: 19728 EPR Reference: SIT010 Landfill type: AG1: Co-Disposal Landfill Site Status: Issued IPPC Reference: - EPR Number: EA/EPR/WP3994HY/ADD1

ID	Location	Details	
3	364m W	Operator: Sita Southern Ltd Site Address: Lidsey Landfill Site, Lidsey Road, Lidsey, Bognor Regis, West Sussex, PO22 9PL	WML Number: 19729 EPR Reference: SIT011 Landfill type: A01: Co-Disposal Landfill Site Status: Closure IPPC Reference: - EPR Number: EA/EPR/WP2594HZ/A001

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	1
----------------------------	----------

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

Features are displayed on the Waste and landfill map on **page 22**

ID	Location	Details		
6	459m S	Site Address: Disused Canal, Lidsey, Sussex Licence Holder Address: -	Waste Licence: Yes Site Reference: WD27/142, WD13/69 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 08/08/1980 Licence Surrender: 06/08/1989	Operator: - Licence Holder: Bower Farms Limited First Recorded: 31/12/1979 Last Recorded: 31/12/1988

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

3.5 Historical waste sites

Records within 500m	0
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Waste site records derived from Local Authority planning records and high detail historical mapping.

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

3.6 Licensed waste sites

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

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

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

3.7 Waste exemptions

Records within 500m	14
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 22**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	191m S	Lidsey Landfill Lidsey Road Chichester West Sussex PO229PL	EPR/WF0803GK/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
A	191m S	Headhone Farm Lidsey Road West Sussex PO22 9PL	EPR/CF0932SL/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
A	191m S	Headhone Farm Lidsey Road West Sussex PO22 9PL	EPR/CF0932SL/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
A	191m S	Headhone Farm Lidsey Road West Sussex PO22 9PL	EPR/CF0932SL/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
A	192m S	Headhone Farm, Lidsey Road, Bognor Regis, PO22 9PL	WEX210231	Disposing of waste exemption	On a Farm	Burning waste in the open
A	192m S	Headhone Farm, Lidsey Road, Bognor Regis, PO22 9PL	WEX210231	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
A	192m S	Headhone Farm, Lidsey Road, Bognor Regis, PO22 9PL	WEX210231	Using waste exemption	On a Farm	Use of waste for a specified purpose
A	192m S	HEADHONE FARM, LIDSEY ROAD, BOGNOR REGIS, PO22 9PL	WEX058255	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	192m S	HEADHONE FARM, LIDSEY ROAD, BOGNOR REGIS, PO22 9PL	WEX058255	Disposing of waste exemption	On a farm	Burning waste in the open
A	192m S	HEADHONE FARM, LIDSEY ROAD, BOGNOR REGIS, PO22 9PL	WEX058255	Using waste exemption	On a farm	Use of waste for a specified purpose
A	192m S	GRANGE HOUSE, GRANGE ROAD, MIDHURST, GU29 9LS	WEX100236	Using waste exemption	On a farm	Use of waste in construction
1	206m NE	LIDSEY ROAD, WOODGATE, CHICHESTER, PO20 3SU	WEX218771	Disposing of waste exemption	Not on a farm	Burning waste in the open
4	415m SW	LIDSEY ROAD, BOGNOR REGIS, PO22 9PL	WEX125809	Using waste exemption	Not on a farm	Use of waste in construction
5	450m NE	THE GRANGE, WESTERGATE STREET, WOODGATE, CHICHESTER, PO20 3SQ	WEX079641	Using waste exemption	Not on a farm	Use of waste in construction

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
- Part A(1) industrial activities
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

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4.1 Recent industrial land uses

Records within 250m

11

Current potentially contaminative industrial sites.

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

ID	Location	Company	Address	Activity	Category
A	19m W	Tank	West Sussex, PO20	Tanks (Generic)	Industrial Features
1	34m E	Southern Mobility Vehicles Ltd	Lidsey Road, Woodgate, Chichester, West Sussex, PO20 3SU	Disability and Mobility Equipment	Consumer Products

ID	Location	Company	Address	Activity	Category
A	38m W	Tank	West Sussex, PO20	Tanks (Generic)	Industrial Features
A	80m W	Silo	West Sussex, PO20	Hoppers and Silos	Farming
A	81m W	Silo	West Sussex, PO20	Hoppers and Silos	Farming
A	85m W	Silo	West Sussex, PO20	Hoppers and Silos	Farming
A	92m W	Silo	West Sussex, PO20	Hoppers and Silos	Farming
A	97m W	Silo	West Sussex, PO20	Hoppers and Silos	Farming
6	135m E	National Plastics	Unit 8 Lees Yard, Lidsey Road, Woodgate, Chichester, West Sussex, PO20 3SU	Construction Completion Services	Construction Services
8	164m S	Microplumb	Headhone Barns, Lidsey Road, Bognor Regis, West Sussex, PO22 9RG	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
8	178m N	Electricity Sub Station	West Sussex, PO20	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m**0**

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**0**

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m**0**

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m**0**

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m**0**

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

2

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

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

ID	Location	Details	
C	428m SW	Operator: LIDSEY LANDFILL LIMITED Installation Name: LIDSEY LANDFILL SITE EPR/CP3735SM Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: PP3706LT Original Permit Number: CP3735SM	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/07/2021 Status: DETERMINATION
C	428m SW	Operator: LIDSEY LANDFILL LIMITED Installation Name: LIDSEY LANDFILL SITE EPR/CP3735SM Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: UP3922JF Original Permit Number: CP3735SM	EPR Reference: - Issue Date: 28/09/2018 Effective Date: 28/09/2018 Last date noted as effective: 01/07/2021 Status: EFFECTIVE

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

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

Records within 500m

0

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	1
----------------------------	----------

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

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

ID	Location	Address	Details	
B	132m S	HEADHO NE FARM	Effluent Type: UNSPECIFIED Permit Number: S01094 Permit Version: 1 Receiving Water: CONTROLLED SEA	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 19/09/1963 Effective Date: 19/09/1963 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

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

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

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

4.15 Pollutant release to public sewer

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

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

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

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

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

4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

6

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

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

ID	Location	Details	
2	55m NW	Incident Date: 28/07/2003 Incident Identification: 177184 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
3	93m SW	Incident Date: 11/01/2002 Incident Identification: 51959 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
4	113m S	Incident Date: 03/04/2003 Incident Identification: 148359 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
5	117m SW	Incident Date: 05/07/2002 Incident Identification: 89461 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
7	176m SW	Incident Date: 16/08/2002 Incident Identification: 100937 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
9	255m S	Incident Date: 28/12/2001 Incident Identification: 49716 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m**0**

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

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

4.21 Pollution inventory radioactive waste

Records within 500m**0**

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

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

5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

1

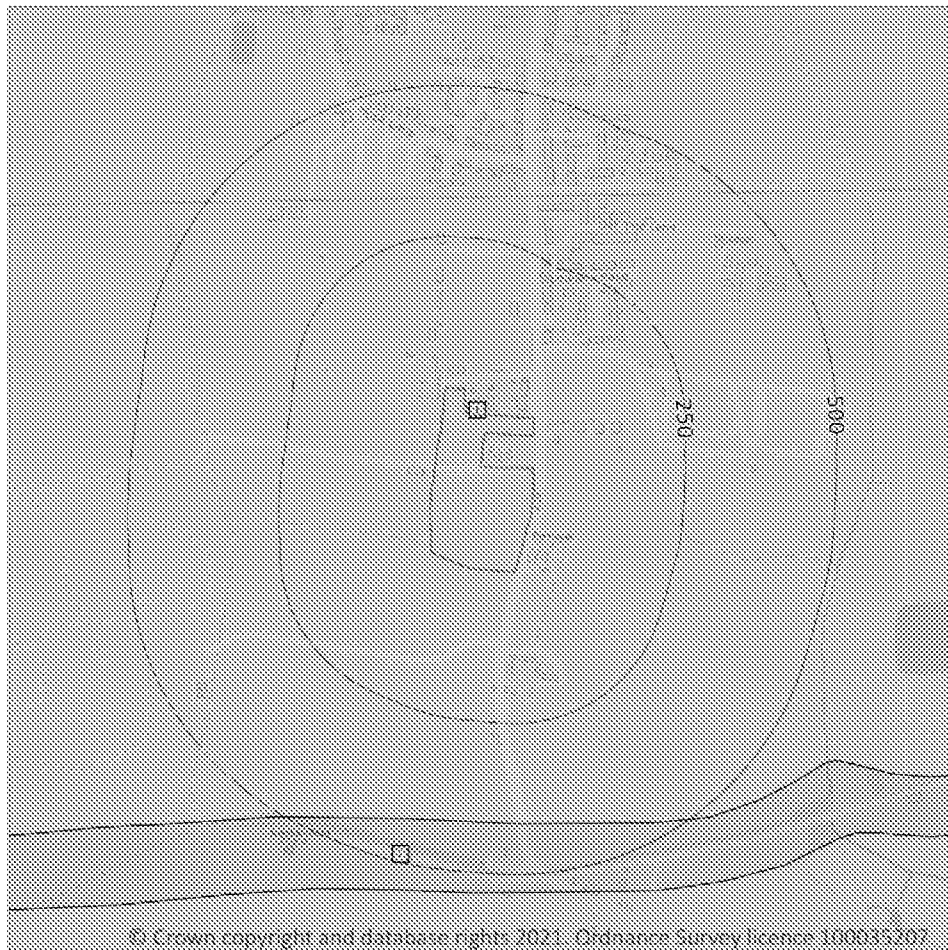
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on page 33

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

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

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

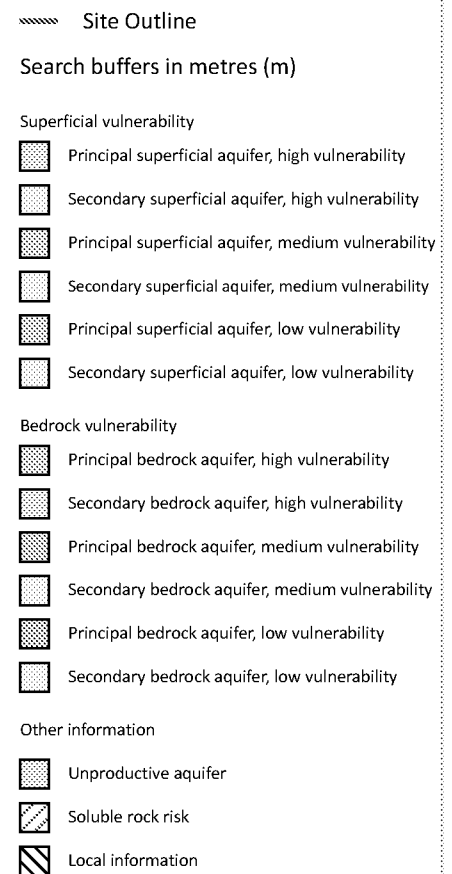
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 34](#)

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	415m 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

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

2

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 35**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	1
------------------------	----------

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	17.0%

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

5.5 Groundwater vulnerability- local information

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

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

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

3

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 37](#)

ID	Location	Details	
-	1429m SW	Status: Historical Licence No: 10/41/541002 Details: General Farming & Domestic Direct Source: Southern Region Groundwater Point: POINT 1 AT SHRIPNEY FARM & FLANSHAM FARM Data Type: Point Name: The Donald Langmead Partnership Easting: 492580 Northing: 102760	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 21/03/2001 Version End Date: -
-	1498m SW	Status: Active Licence No: 10/41/541004 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: AT SHRIPNEY FARM, BOGNOR REGIS Data Type: Point Name: Langmead Farms Ltd Easting: 492870 Northing: 102440	Annual Volume (m ³): 45,460 Max Daily Volume (m ³): 547.20 Original Application No: - Original Start Date: 18/03/1966 Expiry Date: - Issue No: 102 Version Start Date: 16/04/2019 Version End Date: -
-	1092m N	Status: Historical Licence No: 10/41/542105 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A AT EASTERGATE Data Type: Point Name: Robinson Easting: 494260 Northing: 105910	Annual Volume (m ³): 10183 Max Daily Volume (m ³): 327.3 Original Application No: - Original Start Date: 19/03/1979 Expiry Date: - Issue No: 100 Version Start Date: 31/03/2016 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	38
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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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 37**

ID	Location	Details	
A	524m E	Status: Active Licence No: 10/41/542102/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: BETWEEN POINTS A&B AT LIDSEY, BERSTED Data Type: Line Name: Ashmarden Limited Easting: 494358 Northing: 104312	Annual Volume (m ³): 24,548 Max Daily Volume (m ³): 909 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 2 Version Start Date: 13/12/2018 Version End Date: -
A	532m E	Status: Historical Licence No: 10/41/542102 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: BETWEEN POINTS A&B AT LIDSEY, BERSTED Data Type: Line Name: Ashmarden Ltd Easting: 494380 Northing: 104320	Annual Volume (m ³): 19639 Max Daily Volume (m ³): 909.2 Original Application No: - Original Start Date: 20/05/1966 Expiry Date: 31/03/2016 Issue No: 101 Version Start Date: 10/06/2009 Version End Date: -
B	635m SE	Status: Active Licence No: 50/041/0024/007 Details: Spray Irrigation - Storage Direct Source: Southern Region Surface Waters Point: LIDSEY RIFE (WEST BRANCH) AT HEADHONE FARM Data Type: Point Name: Ashmarden Limited Easting: 494281 Northing: 103329	Annual Volume (m ³): 125,000 Max Daily Volume (m ³): 2,400 Original Application No: - Original Start Date: 07/02/2014 Expiry Date: 31/03/2028 Issue No: 3 Version Start Date: 13/12/2018 Version End Date: -
B	636m SE	Status: Historical Licence No: 27/208 Details: Spray Irrigation - Storage Direct Source: Southern Region Surface Waters Point: WEST BRANCH OF THE LIDSEY RIFE Data Type: Point Name: Lidsey Farm Easting: 494290 Northing: 103340	Annual Volume (m ³): 45000 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 31/05/2007 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 16/06/2009 Version End Date: -
B	636m SE	Status: Active Licence No: 27/208/R01 Details: Spray Irrigation - Storage Direct Source: Southern Region Surface Waters Point: WEST BRANCH OF THE LIDSEY RIFE Data Type: Point Name: Eggins Easting: 494290 Northing: 103340	Annual Volume (m ³): 45,000 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -

ID	Location	Details	
1	700m SE	Status: Active Licence No: 10/41/542010 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LIDSEY RIFE REACH A-B, LIDSEY Data Type: Line Name: Lidsey Farm Easting: 494310 Northing: 103260	Annual Volume (m ³): 14,092 Max Daily Volume (m ³): 227.30 Original Application No: - Original Start Date: 12/09/1977 Expiry Date: - Issue No: 101 Version Start Date: 31/03/2016 Version End Date: -
-	1064m SE	Status: Historical Licence No: 10/41/542010 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LIDSEY RIFE REACH C-D, LIDSEY Data Type: Line Name: Lidsey Farm Easting: 494930 Northing: 103540	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 10/05/1995 Version End Date: -
-	1069m W	Status: Active Licence No: 10/41/541310 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: POINTS A TO B ON ALDINGBOURNE RIFE AT UPPER WOODHORN Data Type: Line Name: The Woodhorn Group Easting: 492510 Northing: 103930	Annual Volume (m ³): 22,730 Max Daily Volume (m ³): 2,480 Original Application No: - Original Start Date: 04/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 16/04/2019 Version End Date: -
-	1103m NW	Status: Active Licence No: 10/41/541301 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: PARK FARM REACH E-F, ALDINGBOURNE Data Type: Line Name: Messrs W H & O Gillbard Easting: 493050 Northing: 104930	Annual Volume (m ³): 31,822 Max Daily Volume (m ³): 655 Original Application No: - Original Start Date: 07/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/04/2019 Version End Date: -
-	1108m SW	Status: Historical Licence No: 10/41/541310 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: POINTS A&B C&D AT ALDINGBOURNE RIFE AT UPPER WOODHORN Data Type: Line Name: Pitts Easting: 490670 Northing: 104580	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 30/05/2001 Version End Date: -

ID	Location	Details	
-	1108m SW	Status: Active Licence No: 10/41/541203 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: POINTS A-B, UPPER WOODHORN, GIVING Data Type: Line Name: The Woodhorn Group Easting: 490670 Northing: 104580	Annual Volume (m³): 113,650 Max Daily Volume (m³): 1,241 Original Application No: - Original Start Date: 04/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 16/04/2019 Version End Date: -
-	1119m W	Status: Active Licence No: 10/41/541309/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: POINTS B-C, LIDSEY, BERSTEAD Data Type: Line Name: Ashmarden Limited Easting: 492392 Northing: 104272	Annual Volume (m³): 12,274 Max Daily Volume (m³): 909 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 3 Version Start Date: 04/02/2020 Version End Date: -
-	1121m W	Status: Historical Licence No: 10/41/541309 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: POINTS A-B, LIDSEY, BERSTEAD Data Type: Line Name: Ashmarden Ltd Easting: 492390 Northing: 104270	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 22/05/1966 Version End Date: -
-	1121m W	Status: Historical Licence No: 10/41/541309 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: POINTS B-C, LIDSEY, BERSTEAD Data Type: Line Name: Ashmarden Ltd Easting: 492390 Northing: 104270	Annual Volume (m³): 12,274 Max Daily Volume (m³): 909.2 Original Application No: - Original Start Date: - Expiry Date: 31/03/2016 Issue No: 101 Version Start Date: 10/06/2009 Version End Date: -
-	1130m W	Status: Active Licence No: 10/41/541301 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: PARK FARM REACH A-B, ALDINGBOURNE Data Type: Line Name: Messrs W H & O Giffard Easting: 492160 Northing: 105760	Annual Volume (m³): 31,822 Max Daily Volume (m³): 655 Original Application No: - Original Start Date: 07/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/04/2019 Version End Date: -

ID	Location	Details	
-	1166m E	Status: Active Licence No: 10/41/542010 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LIDSEY RIFE REACH C-D, LIDSEY Data Type: Line Name: Lidsey Farm Easting: 494930 Northing: 103540	Annual Volume (m³): 14,092 Max Daily Volume (m³): 227.30 Original Application No: - Original Start Date: 12/09/1977 Expiry Date: - Issue No: 101 Version Start Date: 31/03/2016 Version End Date: -
-	1315m NW	Status: Active Licence No: 10/41/541301 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: PARK FARM REACH C-D, ALDINGBOURNE Data Type: Line Name: Messrs W H & D Gillbard Easting: 492840 Northing: 105110	Annual Volume (m³): 31,822 Max Daily Volume (m³): 655 Original Application No: - Original Start Date: 07/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/04/2019 Version End Date: -
-	1339m W	Status: Active Licence No: SO/041/0024/015 Details: Spray Irrigation - Storage Direct Source: Southern Region Surface Waters Point: ALDINGBOURNE RIFE, CHICHESTER Data Type: Point Name: Messrs W H & D Gillbard Easting: 492370 Northing: 104398	Annual Volume (m³): 45,000 Max Daily Volume (m³): 778 Original Application No: - Original Start Date: 04/07/2019 Expiry Date: 31/03/2028 Issue No: 2 Version Start Date: 22/03/2021 Version End Date: -
-	1339m W	Status: Active Licence No: SO/041/0024/015 Details: Trickle Irrigation - Storage Direct Source: Southern Region Surface Waters Point: ALDINGBOURNE RIFE, CHICHESTER Data Type: Point Name: Messrs W H & D Gillbard Easting: 492370 Northing: 104398	Annual Volume (m³): 45,000 Max Daily Volume (m³): 778 Original Application No: - Original Start Date: 04/07/2019 Expiry Date: 31/03/2028 Issue No: 2 Version Start Date: 22/03/2021 Version End Date: -
-	1446m SW	Status: Active Licence No: 27/185 Details: Spray Irrigation - Storage Direct Source: Southern Region Surface Waters Point: RIGHT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM. Data Type: Point Name: The Summer Berry Company UK Easting: 492490 Northing: 102640	Annual Volume (m³): 61,371 Max Daily Volume (m³): 1,440 Original Application No: - Original Start Date: 20/02/1996 Expiry Date: - Issue No: 104 Version Start Date: 23/10/2019 Version End Date: -

ID	Location	Details	
-	1504m SE	Status: Active Licence No: 10/41/542102/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: BETWEEN POINTS C&D AT LIDSEY,BERSTED Data Type: Line Name: Ashmarden Limited Easting: 494931 Northing: 102749	Annual Volume (m³): 24,548 Max Daily Volume (m³): 909 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 2 Version Start Date: 13/12/2018 Version End Date: -
-	1525m SE	Status: Historical Licence No: 10/41/542102 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: BETWEEN POINTS C&D AT LIDSEY,BERSTED Data Type: Line Name: Ashmarden Ltd Easting: 494950 Northing: 102740	Annual Volume (m³): 19639 Max Daily Volume (m³): 909.2 Original Application No: - Original Start Date: 20/05/1966 Expiry Date: 31/03/2016 Issue No: 101 Version Start Date: 10/06/2009 Version End Date: -
-	1684m SW	Status: Historical Licence No: 10/41/541001 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Langmead Easting: 492428 Northing: 102551	Annual Volume (m³): 9092 Max Daily Volume (m³): 545.5 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 10/06/2009 Version End Date: -
-	1684m SW	Status: Historical Licence No: 10/41/541309/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Ashmarden Ltd Easting: 492428 Northing: 102551	Annual Volume (m³): 12274 Max Daily Volume (m³): 909.2 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -
-	1684m SW	Status: Historical Licence No: 27/186 Details: Spray irrigation - Storage Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Langmead Farms Ltd Easting: 492428 Northing: 102551	Annual Volume (m³): 90920 Max Daily Volume (m³): 1440 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 103 Version Start Date: 16/06/2009 Version End Date: -

ID	Location	Details	
-	1684m SW	Status: Historical Licence No: 10/41/541001/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Langmead Easting: 492428 Northing: 102551	Annual Volume (m³): 9092 Max Daily Volume (m³): 545.5 Original Application No: - Original Start Date: 30/06/2016 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 30/06/2016 Version End Date: -
-	1689m SW	Status: Historical Licence No: 10/41/541309/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Ashmarden Ltd Easting: 492420 Northing: 102552	Annual Volume (m³): 12274 Max Daily Volume (m³): 909.2 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/02/2028 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -
-	1689m SW	Status: Historical Licence No: 27/186 Details: Spray Irrigation - Storage Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Langmead Farms Ltd Easting: 492420 Northing: 102552	Annual Volume (m³): 90920 Max Daily Volume (m³): 1440 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 103 Version Start Date: 16/06/2009 Version End Date: -
-	1689m SW	Status: Historical Licence No: 10/41/541001 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Langmead Easting: 492420 Northing: 102552	Annual Volume (m³): 9092 Max Daily Volume (m³): 545.5 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 10/06/2009 Version End Date: -

ID	Location	Details	
-	1690m SW	Status: Historical Licence No: 10/41/541001 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Langrhead Easting: 492430 Northing: 102540	Annual Volume (m³): 9092 Max Daily Volume (m³): 545.5 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 10/06/2009 Version End Date: -
-	1690m SW	Status: Historical Licence No: 10/41/541309 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Ashmarden Ltd Easting: 492430 Northing: 102540	Annual Volume (m³): 12274 Max Daily Volume (m³): 909.2 Original Application No: - Original Start Date: - Expiry Date: 31/03/2016 Issue No: 101 Version Start Date: 10/06/2009 Version End Date: -
-	1690m SW	Status: Historical Licence No: 10/41/542102 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Ashmarden Ltd Easting: 492430 Northing: 102540	Annual Volume (m³): 19639 Max Daily Volume (m³): 909.2 Original Application No: - Original Start Date: 20/05/1966 Expiry Date: 31/03/2016 Issue No: 101 Version Start Date: 10/06/2009 Version End Date: -
-	1690m SW	Status: Historical Licence No: 27/186 Details: Spray Irrigation - Storage Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Langrhead Farms Ltd Easting: 492430 Northing: 102540	Annual Volume (m³): 90920 Max Daily Volume (m³): 1440 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 103 Version Start Date: 16/06/2009 Version End Date: -

ID	Location	Details	
-	1691m SW	Status: Historical Licence No: 10/41/541001 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Langmead Easting: 492430 Northing: 102539	Annual Volume (m³): 9092 Max Daily Volume (m³): 545.5 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 01/04/2016 Version End Date: 29/06/2016
-	1691m SW	Status: Active Licence No: 10/41/541001/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Langmead Easting: 492430 Northing: 102539	Annual Volume (m³): 9,092 Max Daily Volume (m³): 545.50 Original Application No: - Original Start Date: 30/06/2016 Expiry Date: 31/02/2028 Issue No: 1 Version Start Date: 16/04/2019 Version End Date: -
-	1691m SW	Status: Active Licence No: 27/186 Details: Spray Irrigation - Storage Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Langmead Farms Ltd Easting: 492430 Northing: 102539	Annual Volume (m³): 90,920 Max Daily Volume (m³): 1,440 Original Application No: - Original Start Date: 20/02/1996 Expiry Date: - Issue No: 104 Version Start Date: 16/04/2019 Version End Date: -
-	1691m SW	Status: Active Licence No: 10/41/541309/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: LEFT BANK OF THE ALDINGBOURNE RIFE LOOKING DOWNSTREAM Data Type: Point Name: Ashmarden Limited Easting: 492430 Northing: 102539	Annual Volume (m³): 12,274 Max Daily Volume (m³): 909 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 3 Version Start Date: 04/02/2020 Version End Date: -

ID	Location	Details	
-	1988m W	Status: Active Licence No: 10/41/541310 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: POINTS C TO D ON ALDINGBOURNE RIFE AT UPPER WOODHORN Data Type: Line Name: The Woodhorn Group Easting: 491360 Northing: 104840	Annual Volume (m ³): 22,730 Max Daily Volume (m ³): 2,480 Original Application No: - Original Start Date: 04/04/1966 Expiry Date: - Issue No: 103 Version Start Date: 16/04/2019 Version End Date: -

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.

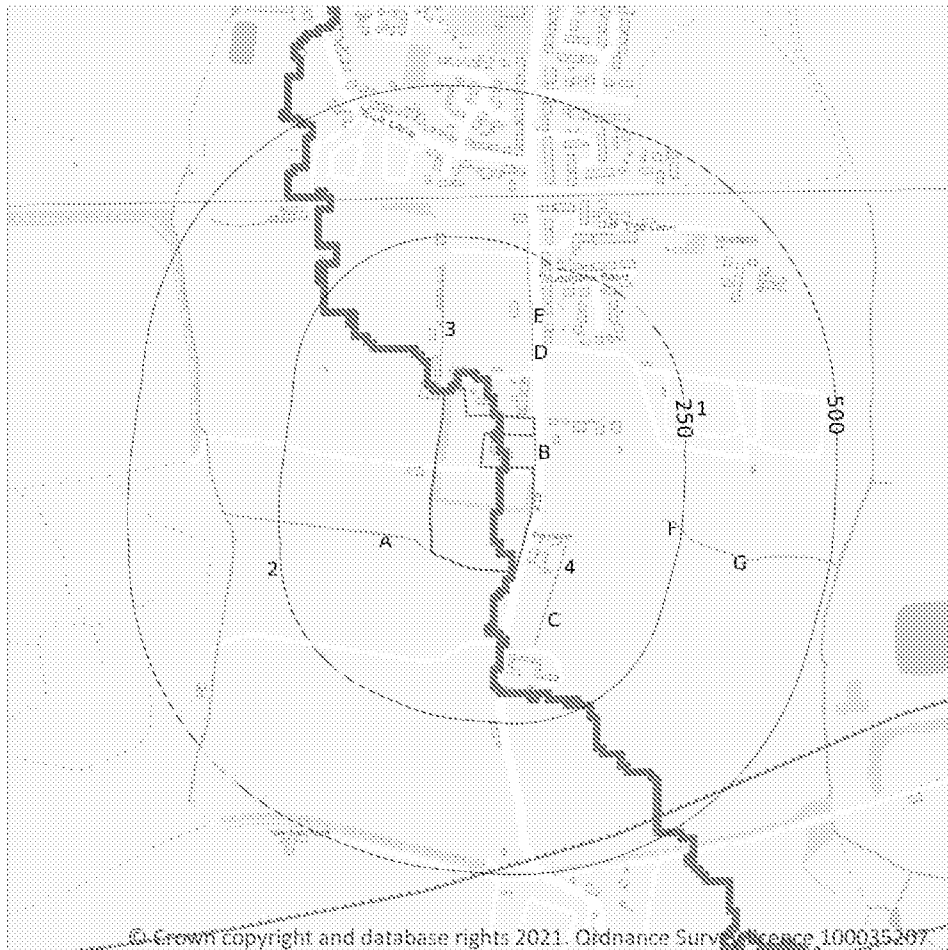
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
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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

14

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

Features are displayed on the Hydrology map on [page 48](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
A	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
B	1m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	18m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	67m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	67m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	92m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	150m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	196m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	196m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	215m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	227m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	232m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	238m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	249m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

5

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

Features are displayed on the Hydrology map on **page 48**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

2

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

Features are displayed on the Hydrology map on **page 48**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River WB catchment	Lidsey Rife	GB107041012010	Western Streams	Arun and Western Streams
2	On site	River WB catchment	Aldingbourne Rife	GB107041011980	Western Streams	Arun and Western Streams

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

6.4 WFD Surface water bodies

Records identified

2

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

Features are displayed on the Hydrology map on **page 48**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	512m E	River	Lidsey Rife	GB107041012010	Moderate	Good	Moderate	2016
-	1045m W	River	Aldingbourne Rife	GB107041011880	Moderate	Good	Moderate	2016

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

6.5 WFD Groundwater bodies

Records on site	0
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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.

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 Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

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

7.2 Historical Flood Events

Records within 250m

0

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

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

7.3 Flood Defences

Records within 250m

0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

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

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

7.7 Flood Zone 3

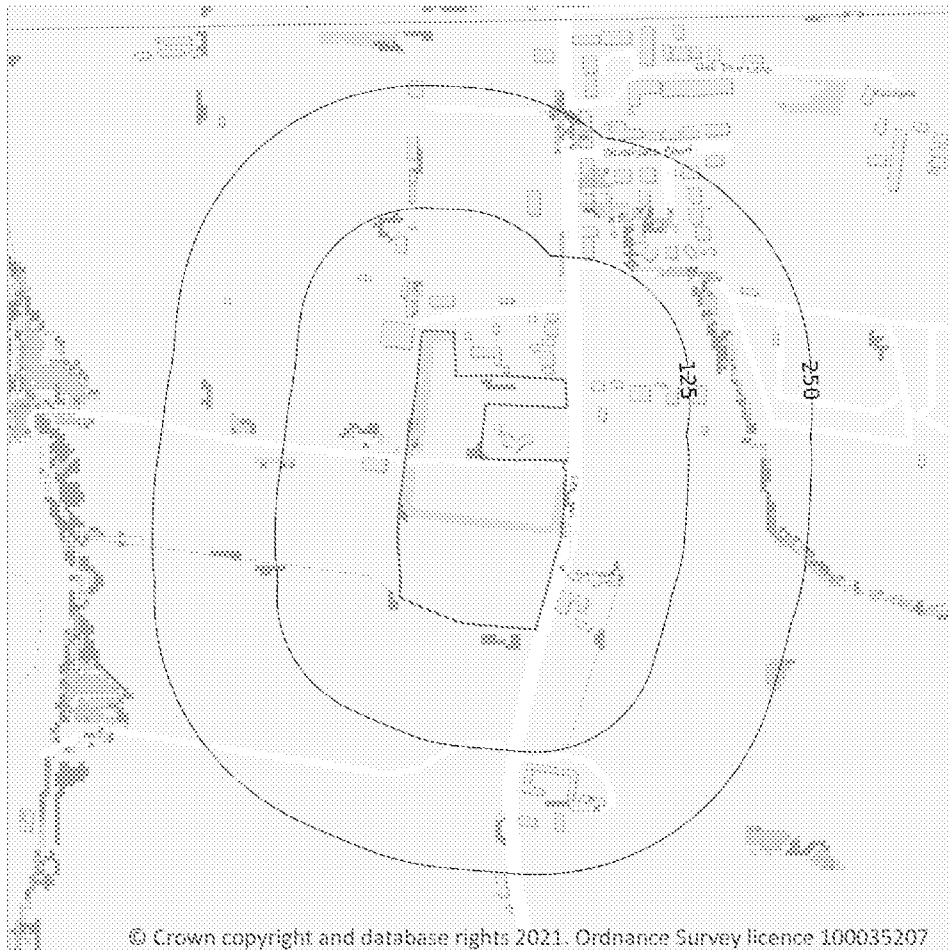
Records within 50m

0

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

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

8 Surface water flooding



Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 100 year, 0.1m - 0.3m

Highest risk within 50m

1 in 100 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 55](#)

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 0.1m and 0.3m
1 in 30 year	Negligible

This data is sourced from Ambienta Risk Analytics.

9 Groundwater flooding



Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Moderate-High

Highest risk within 50m

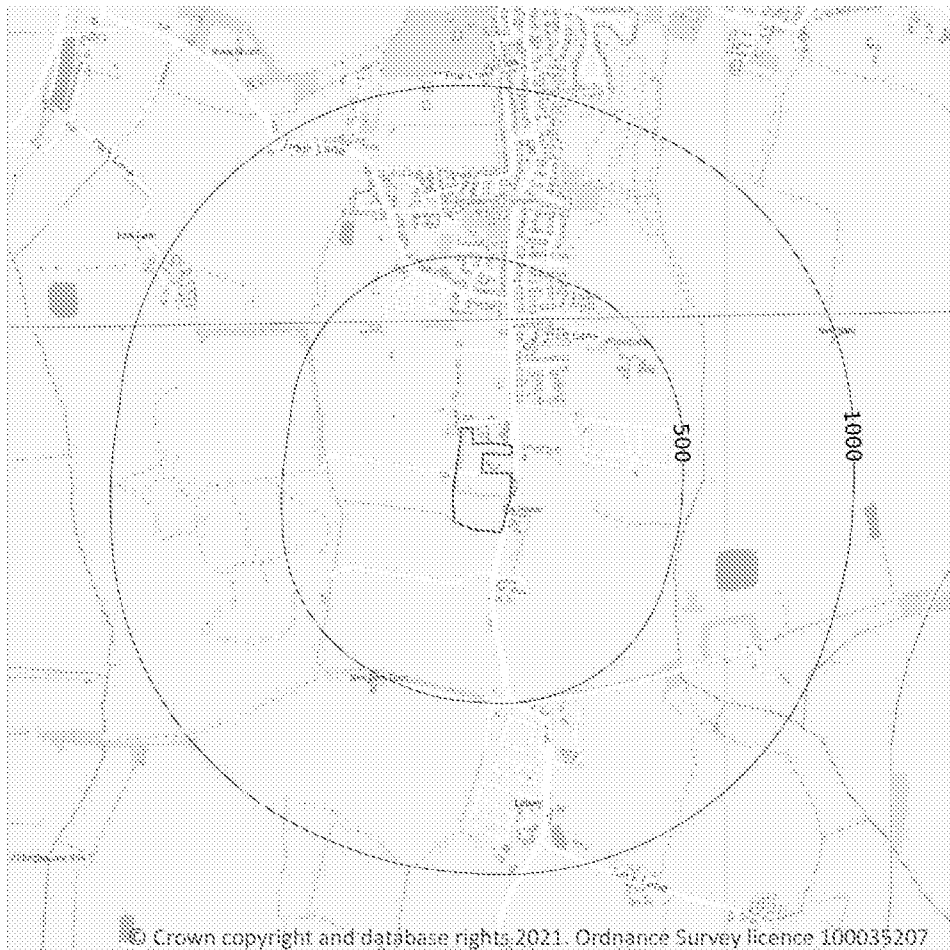
Moderate-High

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

Features are displayed on the Groundwater flooding map on [page 57](#)

This data is sourced from Ambient Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

1

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

Features are displayed on the Environmental designations map on [page 58](#)

ID	Location	Name	Woodland Type
-	1814m NW	Unknown	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

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

5

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

Location	Name	Type	NVZ ID	Status
On site	Aldingbourne Rife NVZ	Surface Water	S517	Existing
295m E	Aldingbourne Rife NVZ	Surface Water	S517	Existing
1724m NW	Sussex Chalk	Groundwater	G56	Changed
1978m NW	Aldingbourne Rife NVZ	Surface Water	S517	Existing
1978m NW	Sussex Chalk	Groundwater	G56	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

2

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

Features are displayed on the SSSI Impact Zones and Units map on [page 63](#)

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 > 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
2	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 4000m². Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion

This data is sourced from Natural England

10.18 SSSI Units

Records within 2000m	0
-----------------------------	----------

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

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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

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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

0

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

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

12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on [page 67](#)

ID	Location	Classification	Description
1	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0
----------------------------	----------

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

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

12.3 Tree Felling Licences

Records within 250m	0
----------------------------	----------

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	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

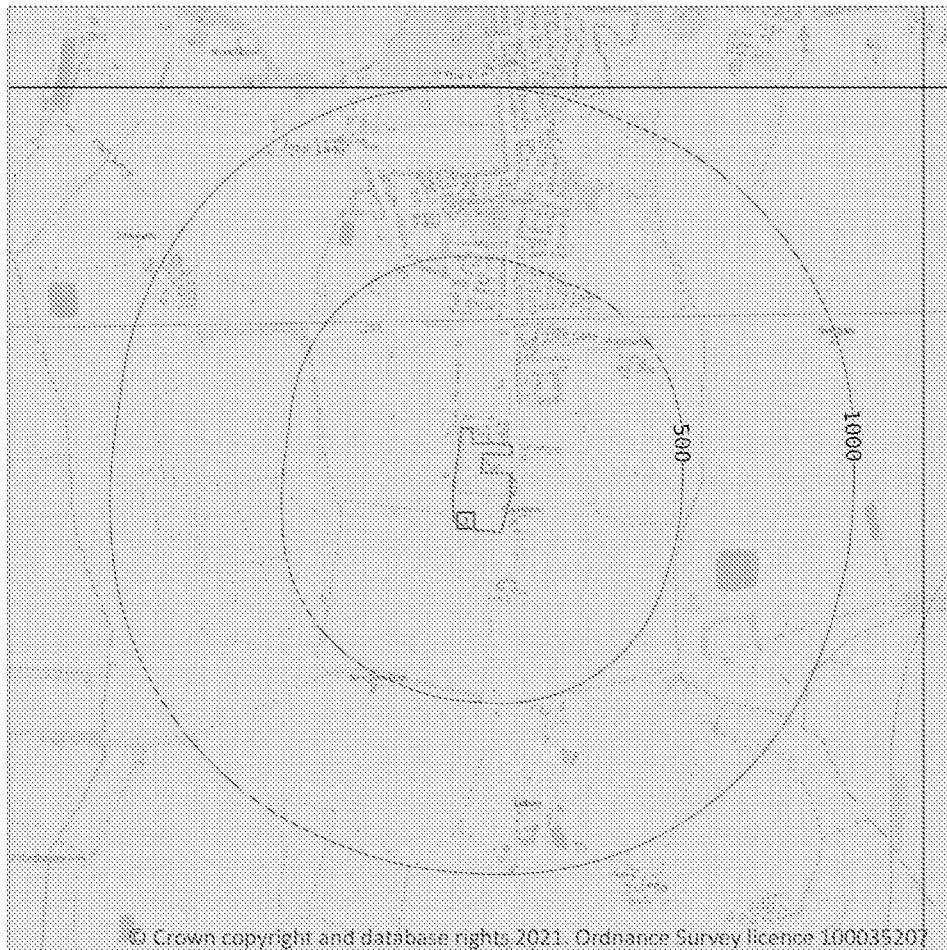
Records within 250m

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.

14 Geology 1:10,000 scale - Availability



Site Outline
Search buffers in metres (m)

- ☒ Full coverage
- ☒ Partial coverage
- ☐ No coverage

14.1 10k Availability

Records within 500m

1

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

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SU905W

This data is sourced from the British Geological Survey.

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



- Site Outline
- Search buffers in metres (m)
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

3

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 72](#)

ID	Location	LEX Code	Description	Rock description
1	398m NW	WGR-VOID	Worked Ground (Undivided)	Void
2	437m NE	WGR-VOID	Worked Ground (Undivided)	Void
3	475m S	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

6

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 73](#)

ID	Location	LEX Code	Description	Rock description
1	On site	RTDU-XSZC	River Terrace Deposits (undifferentiated) - Sand, Silt And Clay	Sand, Silt And Clay
2	169m E	RBD1-XSV	Raised Beach Deposits, 1 - Sand And Gravel	Sand And Gravel
3	398m NW	RBD1-XSV	Raised Beach Deposits, 1 - Sand And Gravel	Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	420m E	RMD-CZ	Raised Marine Deposits - Silty Clay	Clay, Silty
5	437m NE	RBD1-XSV	Raised Beach Deposits, 1 - Sand And Gravel	Sand And Gravel
6	475m S	RBD1-XSV	Raised Beach Deposits, 1 - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

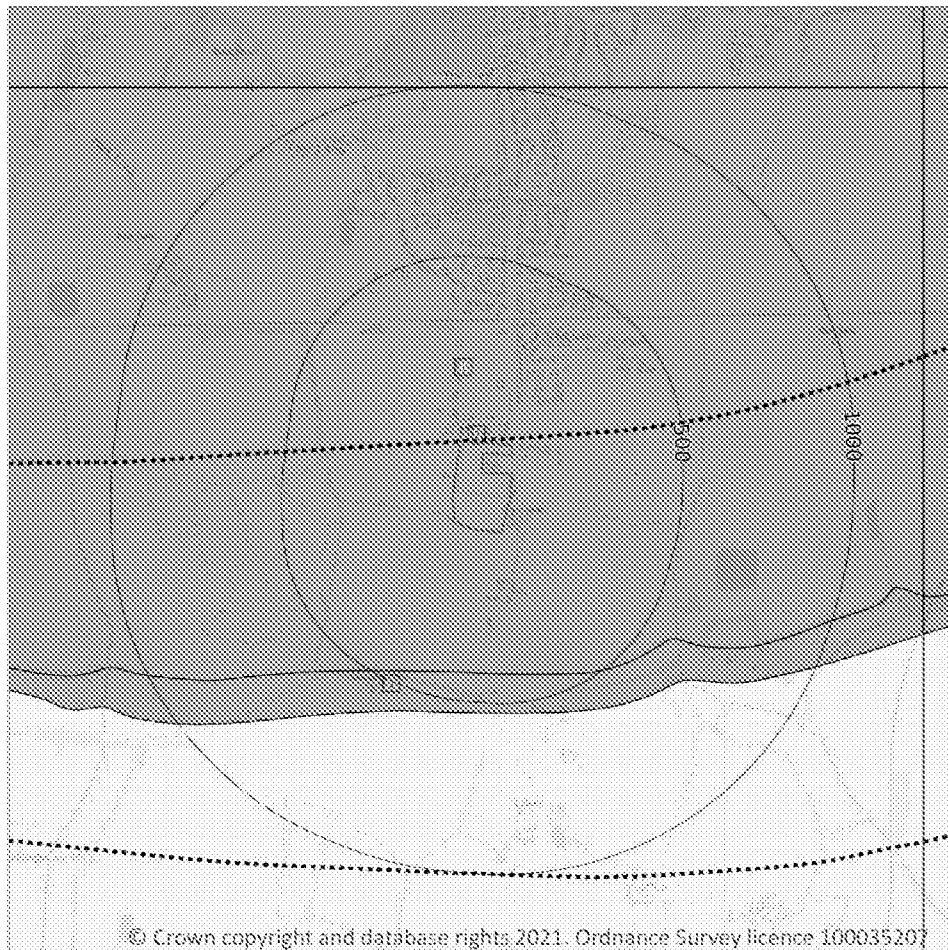
14.4 Landslip (10k)

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

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



----- Site Outline
Search buffers in metres (m)
500 1000
---- Bedrock faults and other linear features (10k)
Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

2

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 75](#)

ID	Location	LEX Code	Description	Rock age
1	On site	LC-CLSISA	London Clay Formation - Clay, Silt And Sand	Eocene Epoch
3	414m S	LMBE-CLAY	Lambeth Group - Clay	Paleocene Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m**1**

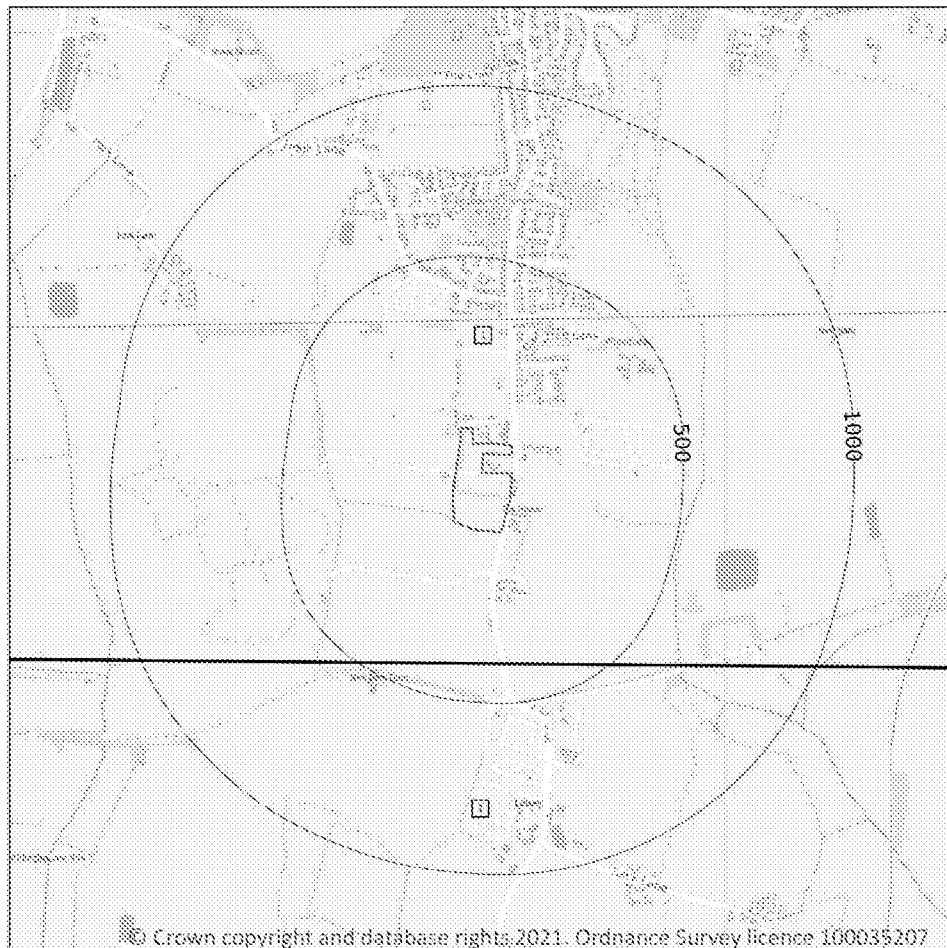
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

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

ID	Location	Category	Description
2	On site	FOLD_AXIS	Axial plane trace of major syncline

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline
Search buffers in metres (m)
Geological map tile

15.1 50k Availability

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 77](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW317_332_chichester_and_bognor_v4
2	384m S	Full	Full	Full	Full	EW317_332_chichester_and_

This data is sourced from the British Geological Survey.

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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

4

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

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

ID	Location	LEX Code	Description	Rock description
1	On site	RTDU-XSZC	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	SAND, SILT AND CLAY
2	189m E	RBD1-XSV	RAISED BEACH DEPOSITS, 1	SAND AND GRAVEL
3	383m S	RTDU-XSZC	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	SAND, SILT AND CLAY
4	441m E	RMD-XCZSV	RAISED MARINE DEPOSITS	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1
---------------------------	----------

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0
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Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m	0
---------------------------	----------

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m

3

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 81**

ID	Location	LEX Code	Description	Rock age
1	On site	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN
3	383m S	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN
4	415m S	LM8E-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	1
---------------------	---

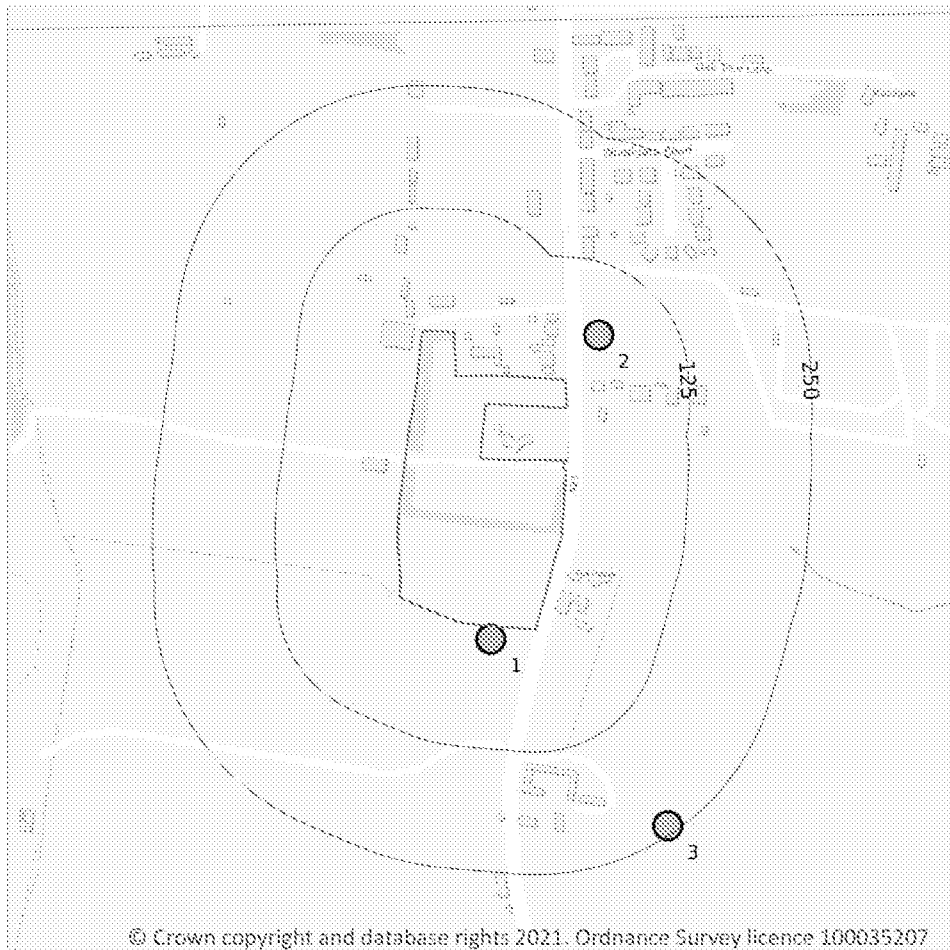
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 81](#)

ID	Location	Category	Description
2	On site	FOLD_AXIS	Axial plane trace of major syncline

This data is sourced from the British Geological Survey.

16 Boreholes



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Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

3

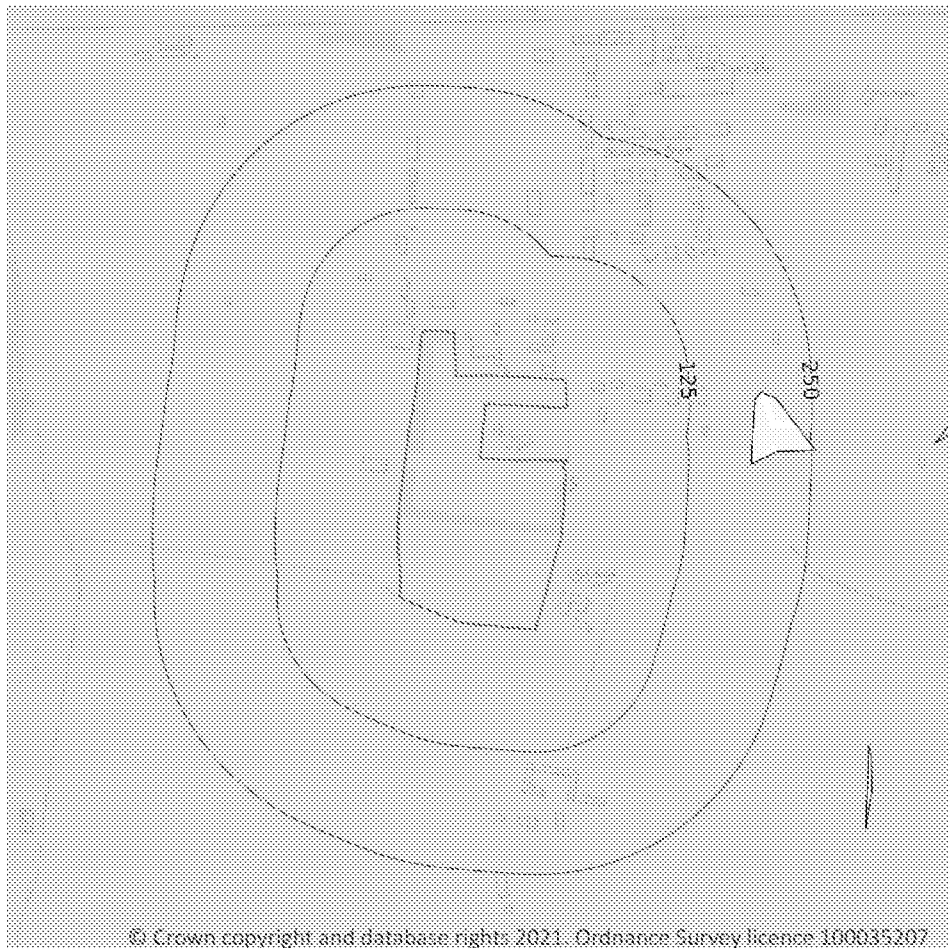
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several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

Features are displayed on the Boreholes map on **page 83**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	14m S	493720 103690	HEADHONE FARM	5.4	N	434480
2	57m NE	493830 104000	WOODGATE NEAR CHICHESTER SUSSEX	156.0	N	434487
3	241m SE	493900 103500	HEADHONE FARM ALDINGBOURNE SUSSEX	102.1	N	434454

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

1

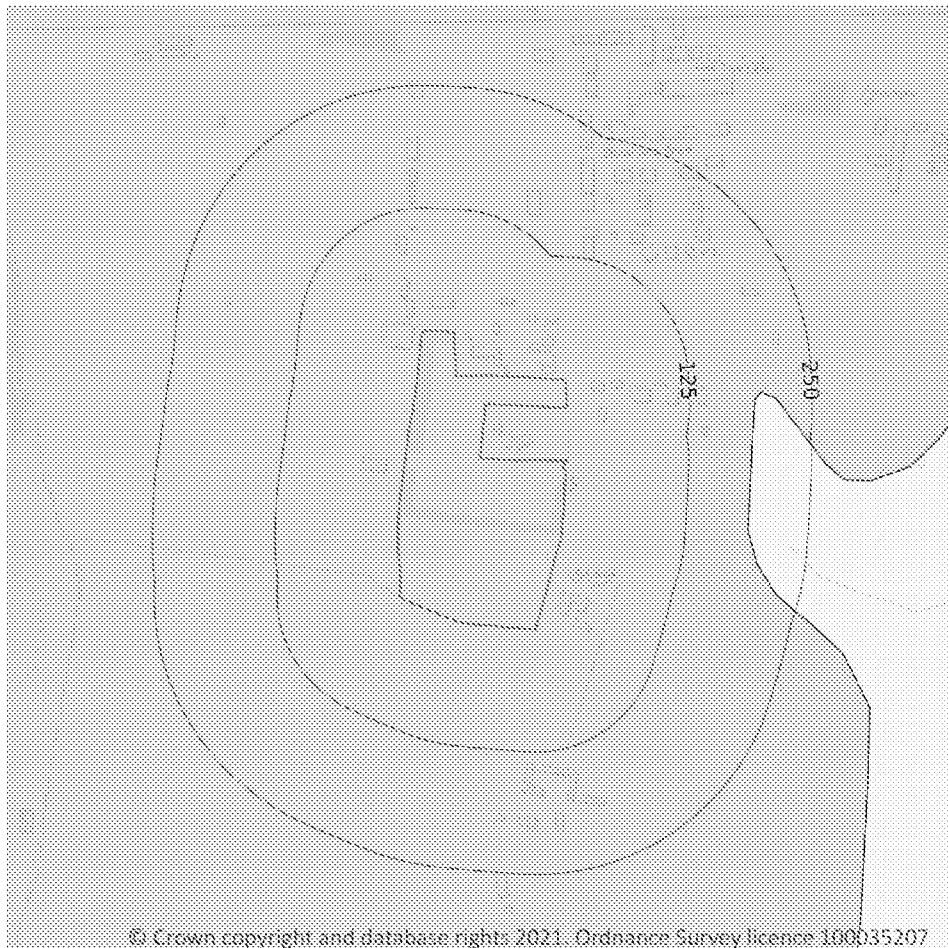
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 85](#)

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

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17.2 Running sands

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 86](#)

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

This data is sourced from the British Geological Survey.