

Appendix D: Groundsure Environmental Data



BHA Consulting

30 OAK LEIGH, CONNAUGHT ROAD,
ATTLEBOROUGH, NR17 2BW

Groundsure
Reference:

GS-4335444

Your Reference:

3244-17-10-10-vf

Report Date

10 Oct 2017

Report Delivery
Method:

Email - pdf

Enviro Insight

Address: RENDLESHAM, IP12 2GW

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,



Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

Address: RENDLESHAM, IP12 2GW

Date: 10 Oct 2017

Reference: GS-4335444

Client: BHA Consulting



Aerial Photograph Capture date: 26-Mar-2007

Grid Reference: 633756,253798

Site Size: 4.99ha

Report Reference: GS-4335444

Client Reference: 3244-17-10-10-vf

Contents Page

Contents Page	3
Overview of Findings	6
Using this report	10
1. Historical Land Use	11
1. Historical Industrial Sites	12
1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping	12
1.2 Additional Information – Historical Tank Database	12
1.3 Additional Information – Historical Energy Features Database	13
1.4 Additional Information – Historical Petrol and Fuel Site Database	13
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	13
1.6 Potentially Infilled Land	14
2. Environmental Permits, Incidents and Registers Map	15
2. Environmental Permits, Incidents and Registers	16
2.1 Industrial Sites Holding Licences and/or Authorisations	16
2.1.1 Records of historic IPC Authorisations within 500m of the study site	16
2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site	16
2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site	16
2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site	16
2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site	16
2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site	17
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	17
2.1.8 Records of Licensed Discharge Consents within 500m of the study site	17
2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site	17
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	17
2.2 Dangerous or Hazardous Sites	17
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents	18
2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site	18
2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site	18
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	18
3. Landfill and Other Waste Sites Map	19
3. Landfill and Other Waste Sites	20
3.1 Landfill Sites	20
3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site	20
3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site	20
3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site	20
3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site	20
3.2 Other Waste Sites	20
3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site	20
3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site	21
4. Current Land Use Map	22
4. Current Land Uses	23
4.1 Current Industrial Data	23
4.2 Petrol and Fuel Sites	23
4.3 National Grid High Voltage Underground Electricity Transmission Cables	23
4.4 National Grid High Pressure Gas Transmission Pipelines	24

5. Geology	25
5.1 Artificial Ground and Made Ground.....	25
5.2 Superficial Ground and Drift Geology	25
5.3 Bedrock and Solid Geology	25
6 Hydrogeology and Hydrology	26
6a. Aquifer Within Superficial Geology	26
6b. Aquifer Within Bedrock Geology and Abstraction Licenses	27
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses	28
6d. Hydrogeology – Source Protection Zones within confined aquifer	29
6e. Hydrology – Detailed River Network and River Quality	30
6.Hydrogeology and Hydrology	31
6.1 Aquifer within Superficial Deposits.....	31
6.2 Aquifer within Bedrock Deposits.....	31
6.3 Groundwater Abstraction Licences.....	32
6.4 Surface Water Abstraction Licences.....	34
6.5 Potable Water Abstraction Licences.....	34
6.6 Source Protection Zones.....	34
6.7 Source Protection Zones within Confined Aquifer.....	35
6.8 Groundwater Vulnerability and Soil Leaching Potential.....	35
6.9 River Quality.....	35
6.9.1 Biological Quality:.....	36
6.9.2 Chemical Quality:.....	36
6.10 Detailed River Network.....	36
6.11 Surface Water Features.....	37
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)	38
7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS)	39
Map	39
7 Flooding	40
7.1 River and Coastal Zone 2 Flooding.....	40
7.2 River and Coastal Zone 3 Flooding.....	40
7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating.....	40
7.4 Flood Defences.....	40
7.5 Areas benefiting from Flood Defences.....	40
7.6 Areas benefiting from Flood Storage.....	41
7.7 Groundwater Flooding Susceptibility Areas.....	41
7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes.....	41
7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?.....	41
7.8 Groundwater Flooding Confidence Areas.....	41
8. Designated Environmentally Sensitive Sites Map	42
8. Designated Environmentally Sensitive Sites	43
8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:.....	43
8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:.....	43
8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:.....	43
8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:.....	43
8.5 Records of Ramsar sites within 2000m of the study site:.....	44
8.6 Records of Ancient Woodland within 2000m of the study site:	44
8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:.....	44
8.8 Records of World Heritage Sites within 2000m of the study site:.....	44
8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:	45

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:	45
8.11 Records of National Parks (NP) within 2000m of the study site:	45
8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:.....	45
8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:.....	45
8.14 Records of Green Belt land within 2000m of the study site:.....	46
9. Natural Hazards Findings	47
9.1 Detailed BGS GeoSure Data.....	47
9.1.1 Shrink Swell.....	47
9.1.2 Landslides.....	47
9.1.3 Soluble Rocks.....	47
9.1.4 Compressible Ground.....	48
9.1.5 Collapsible Rocks.....	48
9.1.6 Running Sand.....	48
9.2 Radon.....	48
9.2.1 Radon Affected Areas.....	48
9.2.2 Radon Protection.....	49
10. Mining	50
10.1 Coal Mining.....	50
10.2 Non-Coal Mining.....	50
10.3 Brine Affected Areas	50
Contact Details	51
Standard Terms and Conditions	53

Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	0	0	3	17
1.2 Additional Information – Historical Tank Database	0	1	3	7
1.3 Additional Information – Historical Energy Features Database	0	1	3	0
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	0	0
1.6 Potentially Infilled Land	0	0	3	20

Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	0	0
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	0	0	0	0
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	0	0
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	0	0	0	0
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	0	0
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	0	1	0

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	1	5	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	0	0
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Are there any records of Artificial Ground and Made Ground present beneath the study site?	Yes
5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	Yes
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology		0-500m					
6.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?		Yes					
6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?		Yes					
	On-site	0-50m	51-250	251-500	501-1000	1000-2000	
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	3	10	
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	2	
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	1	
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched	
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched	
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	0	1	Not searched	Not searched	

Section 6: Hydrogeology and Hydrology

0-500m

	On-site	0-50m	51-250	251-500	501-1000	1000-1500
6.9 Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site?	No	No	No	No	No	Yes
6.10 Detailed River Network entries within 500m of the site	0	0	0	0	Not searched	Not searched
6.11 Surface water features within 250m of the study site	Yes	No	Yes	Not searched	Not searched	Not searched

Section 7: Flooding

7.1 Are there any Environment Agency Zone 2 floodplains within 250m of the study site?	No					
7.2 Are there any Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	No					
7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site?	Very Low					
7.4 Are there any Flood Defences within 250m of the study site?	No					
7.5 Are there any areas benefiting from Flood Defences within 250m of the study site?	No					
7.6 Are there any areas used for Flood Storage within 250m of the study site?	No					
7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Limited potential					
7.8 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	Low					

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	1
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	1
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	0	0	1	5
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	0
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	1	0

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	1	0
8.11 Records of National Parks	0	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	2	0	0	0	1	0
8.14 Records of Green Belt land	0	0	0	0	0	0

Section 9: Natural Hazards

9.1 What is the maximum risk of natural ground subsidence?

Low

9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?

Low

9.1.2 What is the maximum Landslides hazard rating identified on the study site?

Very Low

9.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site?

Negligible

9.1.4 What is the maximum Compressible Ground hazard rating identified on the study site?

Negligible

9.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site?

Very Low

9.1.6 What is the maximum Running Sand hazard rating identified on the study site?

Very Low

9.2 Radon

9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?

The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?

No radon protective measures are necessary.

Section 10: Mining

10.1 Are there any coal mining areas within 75m of the study site?

No

10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary?

No

10.3 Are there any brine affected areas within 75m of the study site?

No

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licenses, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. Contacts

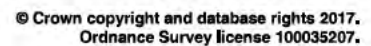
This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.



Site Outline

Industrial Land Use

Potentially Infilled Land

Search Buffers (m)

250

500

Historical 1:2,500, 1:1,250 and 1:500 scale mapping

Energy Features

Tanks

Petrol Stations

Garages

1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 20

ID	Distance [m]	Direction	Use	Date
1H	114	NW	Unspecified Pit	1883
2A	170	NW	Gasometer	1883
3A	170	NW	Unspecified Tank	1905
4B	311	NE	Sewage Works	1982
5J	340	NE	Unspecified Pit	1982
6B	368	NE	Filter Beds	1982
7B	370	NE	Unspecified Commercial/Industrial	1953
8D	401	N	Old Sand Pits	1883
9C	405	NE	Unspecified Tanks	1982
10C	409	NE	Unspecified Tanks	1953
11D	409	N	Unspecified Pit	1905
12D	413	N	Unspecified Pit	1953
13K	435	N	Unspecified Pit	1953
14E	445	NE	Unspecified Pit	1905
15E	445	NE	Unspecified Pit	1883
16F	455	NW	Unspecified Disused Pit	1982
17E	456	NE	Unspecified Pit	1953
18F	484	NW	Gravel Pit	1953
19F	486	NW	Unspecified Pit	1905
20M	490	NW	Gravel Pit	1883

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 11

ID	Distance (m)	Direction	Use	Date
21	22	N	Unspecified Tank	1991
22A	174	NW	Gasometer	1881
23A	174	NW	Gasometer	1902

24	186	NW	Unspecified Tank	1975
25G	319	SE	Unspecified Tank	1989
26G	319	SE	Unspecified Tank	1989
27G	319	SE	Unspecified Tank	1991
28G	319	SE	Unspecified Tank	1982
29G	320	SE	Unspecified Tank	1974
30	418	NE	Unspecified Tank	1974
31C	437	NE	Tanks	1974

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary:

4

ID	Distance (m)	Direction	Use	Date
32	14	E	Electricity Substation	1982
33	155	S	Electricity Substation	1982
34A	174	NW	Gasometer	1902
35A	174	NW	Gasometer	1881

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary:

0

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary:

0

Database searched and no data found.

1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 23

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

ID	Distance(m)	Direction	Use	Date
36H	114	NW	Unspecified Pit	1883
37I	247	N	Pond	1905
38I	247	N	Pond	1883
39I	252	N	Pond	1982
40I	252	N	Pond	1953
41B	311	NE	Sewage Works	1982
42J	340	NE	Unspecified Pit	1982
43B	368	NE	Filter Beds	1982
44D	401	N	Old Sand Pits	1883
45D	409	N	Unspecified Pit	1905
46D	413	N	Unspecified Pit	1953
47K	435	N	Unspecified Pit	1953
48E	445	NE	Unspecified Pit	1905
49E	445	NE	Unspecified Pit	1883
50F	455	NW	Unspecified Disused Pit	1982
51E	456	NE	Unspecified Pit	1953
52L	463	N	Pond	1883
53L	463	N	Pond	1905
54L	472	N	Pond	1953
55L	472	N	Pond	1982
56F	484	NW	Gravel Pit	1953
57F	486	NW	Unspecified Pit	1905
58M	490	NW	Gravel Pit	1883

2. Environmental Permits, Incidents and Registers Map



© Crown copyright and database rights 2017.
Ordnance Survey license 100035207.

- | | | |
|-----------------------------|-------------------------------|--|
| Site Outline | Recorded Pollution Incident | RAS 3 & 4 Authorisations |
| 250m | Dangerous Substances (List 1) | Part A(1) Authorised Processes and Historic IPC Authorisations |
| 500m | Dangerous Substances (List 2) | Part A(2) and Part B Authorised Processes |
| Search Buffers (m) | Water Industry Referrals | COMAH / NIHS Sites |
| Licenced Discharge Consents | Red List Discharge Consents | Sites Determined as Contaminated Land |
| | | Hazardous Substance Consents and Enforcements |

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

0

Database searched and no data found.

2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site:

0

Database searched and no data found.

2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

0

Database searched and no data found.

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

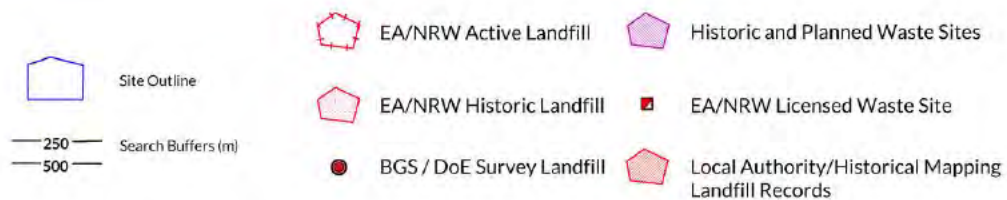
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site?

0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

0

Database searched and no data found.

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

0

Database searched and no data found.

3.2 Other Waste Sites

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

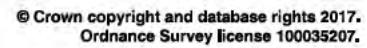
Database searched and no data found.

3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

1

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details
Not shown	977	SE	634665 253135	<p>Site Address: The Control Tower, Rendlesham, Woodbridge, Suffolk, IP12 2TW</p> <p>Type: Inert & excavation Waste TS + treatment</p> <p>Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: BEN084</p> <p>EPR reference: EA/EPR/EB3234RZ/A001</p> <p>Operator: Bentwater Parks Ltd</p> <p>Waste Management licence No: 103746</p> <p>Annual Tonnage: 74999.0</p> <p>Issue Date: 03/09/2012</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: 0</p> <p>Expiry Date: 0</p> <p>Cancelled Date: 0</p> <p>Status: Issued</p> <p>Site Name: Bentwaters Park</p> <p>Correspondence Address: -</p>



4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site:

6

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	15	E	Electricity Sub Station	633943 253776	IP12	Electrical Features	Infrastructure and Facilities
2	84	S	Electricity Sub Station	633658 253615	IP12	Electrical Features	Infrastructure and Facilities
3	112	NE	Stokes Sauces	633944 254007	Rendlesham Hall, Rendlesham, Woodbridge, IP12 2RG	Catering and Non Specific Food Products	Foodstuffs
4	197	NW	Tank	633547 254036	IP12	Tanks (Generic)	Industrial Features
5	204	SE	Electricity Sub Station	634028 253598	IP12	Electrical Features	Infrastructure and Facilities
6	217	E	Electricity Sub Station	634144 253784	IP12	Electrical Features	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site:

0

Database searched and no data found.

4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site:

0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND

5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
KGCA-XSV	KESGRAVE CATCHMENT SUBGROUP	SAND AND GRAVEL

5.3 Bedrock and Solid Geology

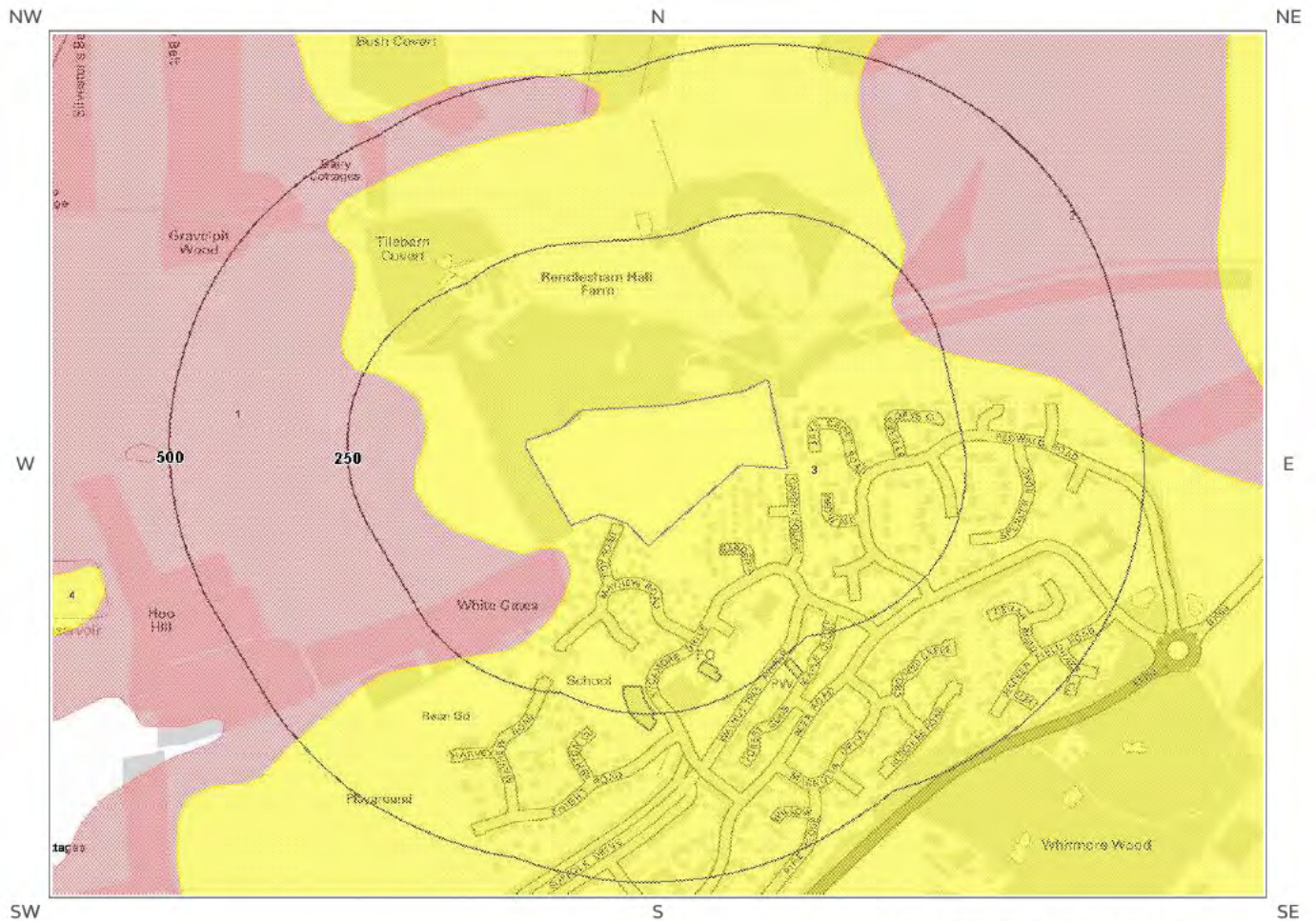
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
CFB-S	CHILLESFORD CHURCH SAND MEMBER	SAND

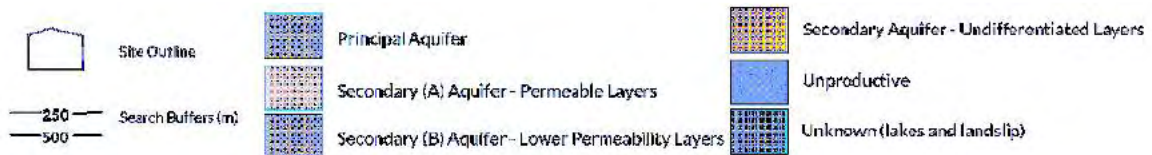
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

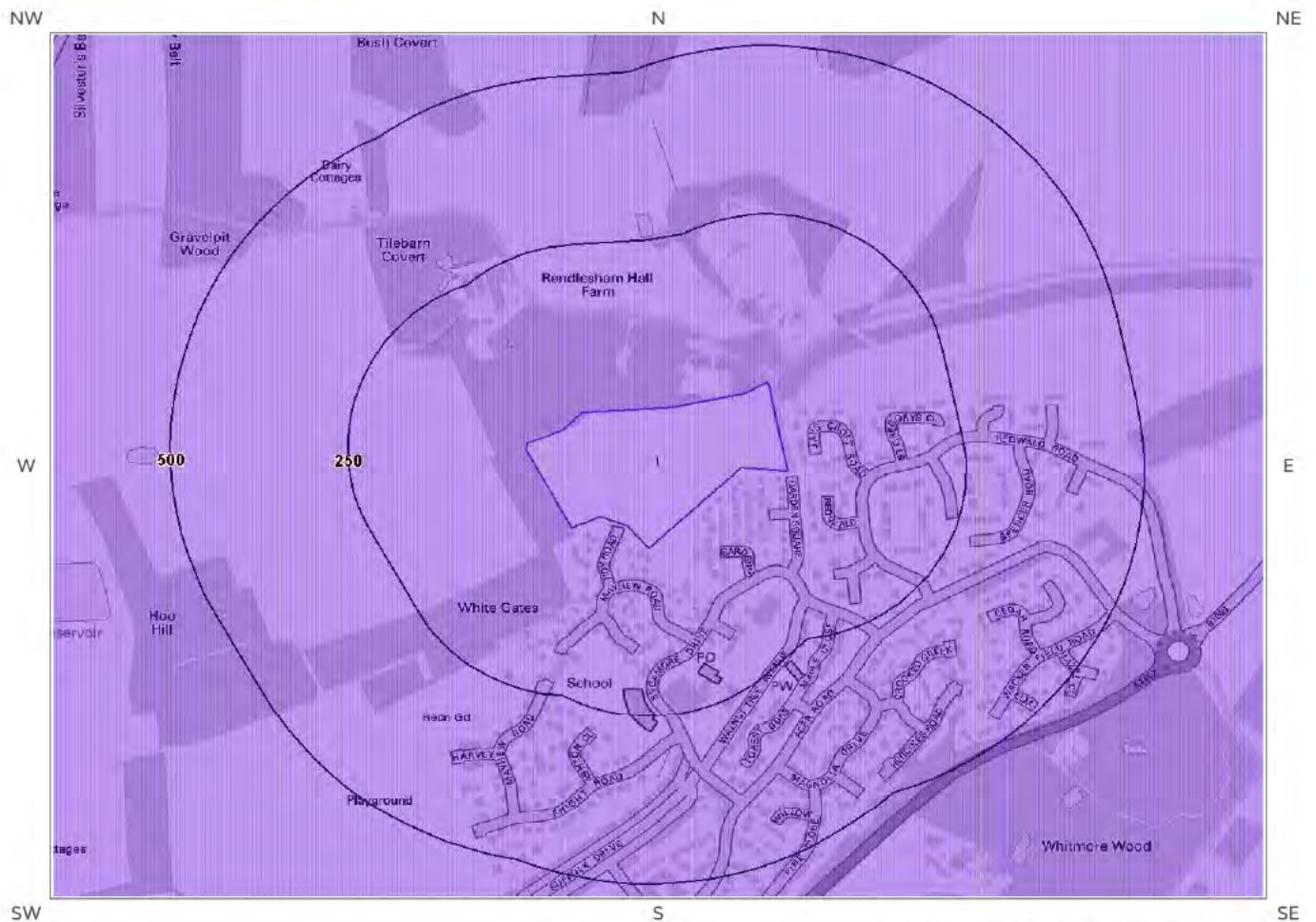
6a. Aquifer Within Superficial Geology



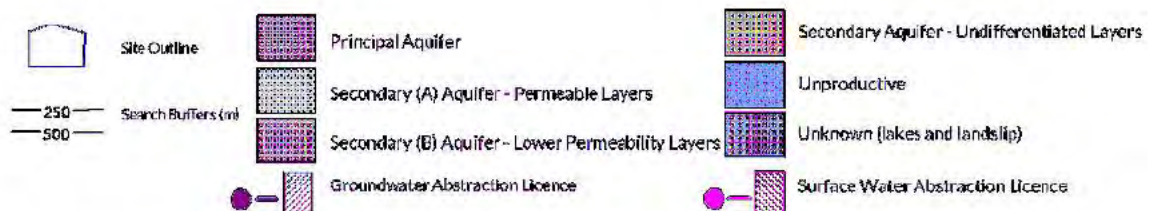
© Crown copyright and database rights 2017
Ordnance Survey license 100035207.



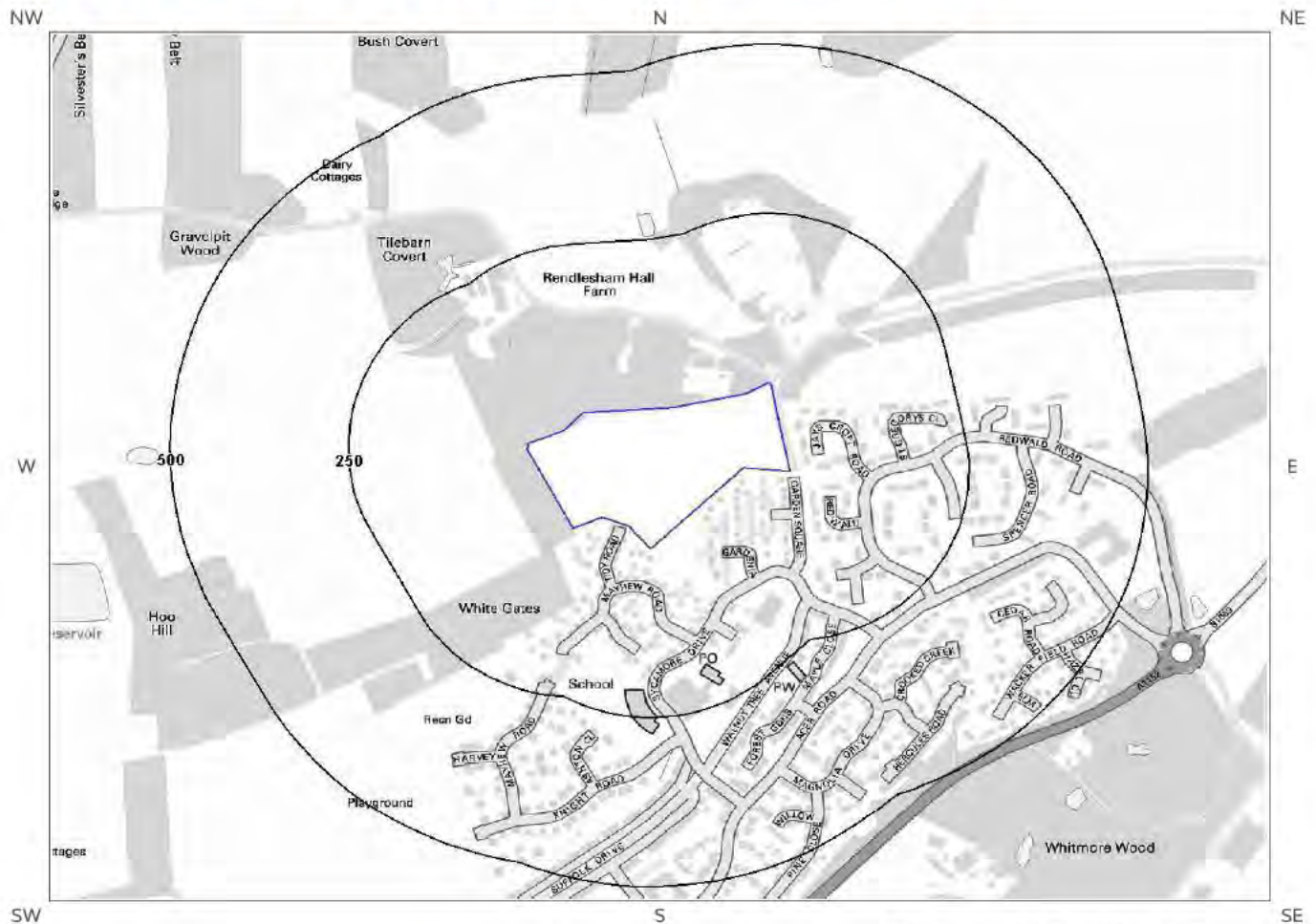
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



© Crown copyright and database rights 2017
Ordnance Survey license 100035207.



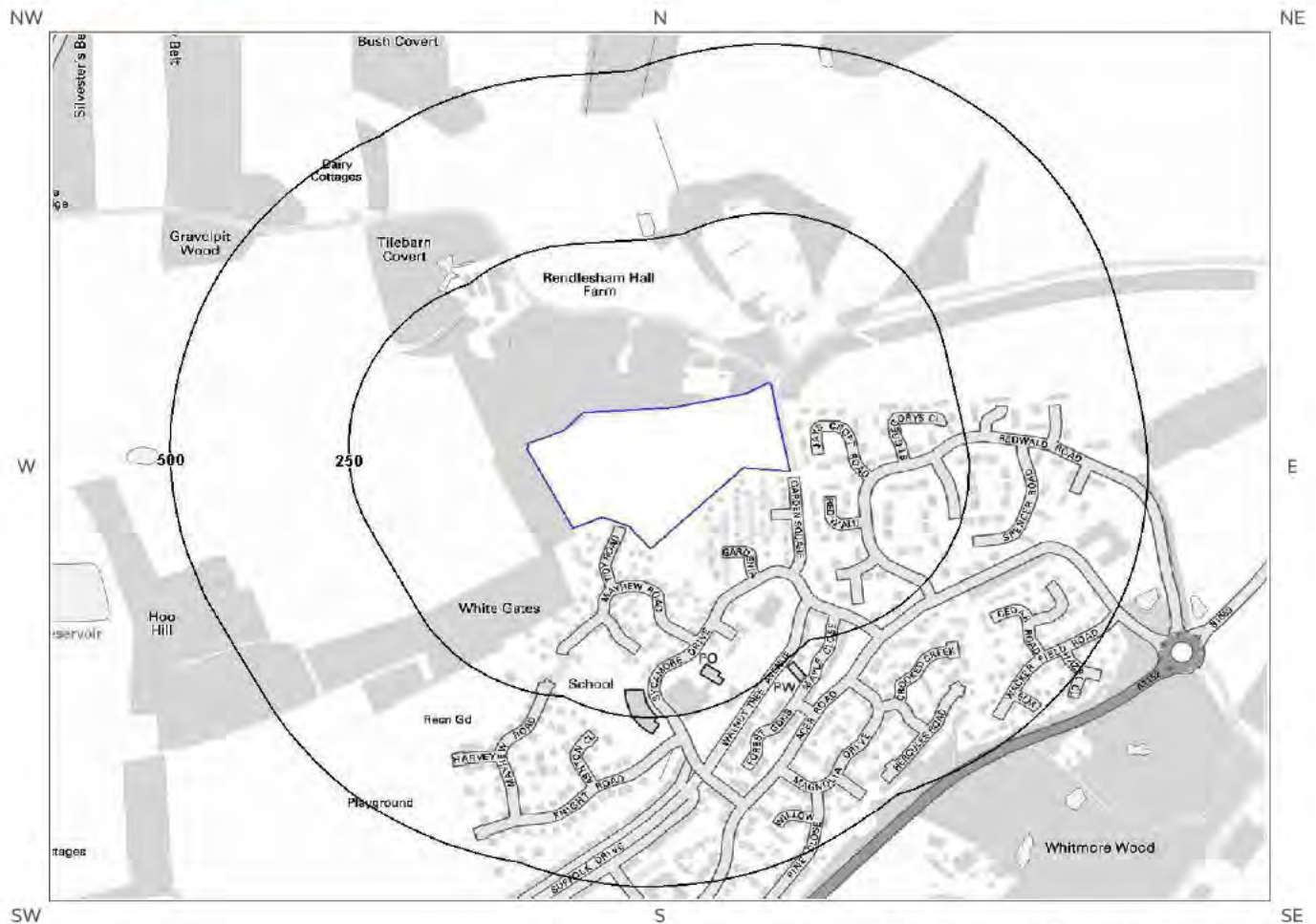
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



© Crown copyright and database rights 2017
Ordnance Survey license 100035207.



6d. Hydrogeology – Source Protection Zones within confined aquifer



© Crown copyright and database rights 2017
Ordnance Survey license 100035207.



6e. Hydrology – Detailed River Network and River Quality



© Crown copyright and database rights 2017.
Ordnance Survey license 100035207.



6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
3	0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
1	38	SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	206	NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

6.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

6.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site?

Yes

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details
Not shown	859	W	632700 253800	<p>Status: Active Licence No: 7/35/06/*G/0068 Details: Transfer Between Sources (Pre Water Act 2003) Direct Source: Ground Water Source Of Supply Point: 19 Wellpts At High House Fm,r. Data Type: Point Name: NAUNTON HALL FARMS</p> <p>Annual Volume (m³): 113600 Max Daily Volume (m³): 1955 Original Application No: NPS/WR/012301 Original Start Date: 1/4/1967 Expiry Date: - Issue No: 106 Version Start Date: 1/4/2016 Version End Date:</p>
Not shown	859	W	632700 253800	<p>Status: Active Licence No: 7/35/06/*G/0068 Details: Spray Irrigation - Direct Direct Source: Ground Water Source Of Supply Point: 19 Wellpts At High House Fm,r. Data Type: Point Name: NAUNTON HALL FARMS</p> <p>Annual Volume (m³): 113600 Max Daily Volume (m³): 1955 Original Application No: NPS/WR/012301 Original Start Date: 1/4/1967 Expiry Date: - Issue No: 106 Version Start Date: 1/4/2016 Version End Date:</p>
Not shown	859	W	632700 253800	<p>Status: Active Licence No: 7/35/06/*G/0068 Details: Spray Irrigation - Storage Direct Source: Ground Water Source Of Supply Point: 19 Wellpts At High House Fm,r. Data Type: Point Name: NAUNTON HALL FARMS</p> <p>Annual Volume (m³): 113600 Max Daily Volume (m³): 1955 Original Application No: NPS/WR/012301 Original Start Date: 1/4/1967 Expiry Date: - Issue No: 106 Version Start Date: 1/4/2016 Version End Date:</p>
Not shown	1663	NE	635300 254800	<p>Status: Historical Licence No: 7/35/04/*G/0120 Details: Spray Irrigation - Direct Direct Source: Ground Water Source Of Supply Point: Borehole At Tunstall Data Type: Point Name: NAUNTON HALL FARMS</p> <p>Annual Volume (m³): 73000 Max Daily Volume (m³): 2400 Original Application No: ES2917 Original Start Date: 28/10/2005 Expiry Date: 31/3/2008 Issue No: 2 Version Start Date: 6/2/2006 Version End Date:</p>
Not shown	1663	NE	635300 254800	<p>Status: Historical Licence No: 7/35/05/*G/0090 Details: Spray Irrigation - Direct Direct Source: Ground Water Source Of Supply Point: Borehole At Tunstall Data Type: Point Name: NAUNTON HALL FARMS</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 1/3/1996 Expiry Date: 31/10/2005 Issue No: 100 Version Start Date: 1/3/1996 Version End Date:</p>
Not shown	1663	NE	635300 254800	<p>Status: Historical Licence No: 7/35/04/*G/0120A Details: Spray Irrigation - Direct Direct Source: Ground Water Source Of Supply Point: Borehole At Tunstall Data Type: Point Name: NAUNTON HALL FARMS</p> <p>Annual Volume (m³): 73000 Max Daily Volume (m³): 2400 Original Application No: EN2317 Original Start Date: 1/4/2008 Expiry Date: 31/3/2010 Issue No: 1 Version Start Date: 1/4/2008 Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details	
Not shown	1663	NE	635300 254800	Status: Active Licence No: AN/035/0004/006 Details: Spray Irrigation - Direct Direct Source: Ground Water Source Of Supply Point: Borehole At Tunstall Woodbridge Sffk Data Type: Point Name: NAUNTON HALL FARMS	Annual Volume (m³): 36200 Max Daily Volume (m³): 2400 Original Application No: NPSWR002370 Original Start Date: 1/4/2010 Expiry Date: 31/3/2026 Issue No: 1 Version Start Date: 1/4/2016 Version End Date:
Not shown	1877	NW	632740 255510	Status: Historical Licence No: 7/35/04/*G/0102 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water Source Of Supply Point: Well At Chantry Farm Data Type: Point Name: TENNYSON LANDSCAPES	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 1/6/1991 Expiry Date: - Issue No: 100 Version Start Date: 1/6/1991 Version End Date:
Not shown	1877	NW	632740 255510	Status: Historical Licence No: 7/35/04/*G/0102 Details: General Farming & Domestic Direct Source: Ground Water Source Of Supply Point: Well At Chantry Farm Data Type: Point Name: TENNYSON LANDSCAPES	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 1/6/1991 Expiry Date: - Issue No: 100 Version Start Date: 1/6/1991 Version End Date:
Not shown	1877	NW	632740 255510	Status: Historical Licence No: 7/35/04/*G/0102 Details: Spray Irrigation - Direct Direct Source: Ground Water Source Of Supply Point: Well At Chantry Farm Data Type: Point Name: TENNYSON LANDSCAPES	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 1/6/1991 Expiry Date: - Issue No: 100 Version Start Date: 1/6/1991 Version End Date:
Not shown	1905	W	631700 254230	Status: Historical Licence No: 7/35/06/*G/0111A Details: Spray Irrigation - Direct Direct Source: Ground Water Source Of Supply Point: Borehole At Pettistree Data Type: Point Name: WESTROPE	Annual Volume (m³): 90700 Max Daily Volume (m³): 1438 Original Application No: EN2170 Original Start Date: 20/2/2007 Expiry Date: 31/3/2014 Issue No: 1 Version Start Date: 20/2/2007 Version End Date:
Not shown	1905	W	631700 254230	Status: Historical Licence No: 7/35/06/*G/0111 Details: Spray Irrigation - Direct Direct Source: Ground Water Source Of Supply Point: Borehole At Pettistree Data Type: Point Name: WESTROPE	Annual Volume (m³): 90700 Max Daily Volume (m³): 1438 Original Application No: - Original Start Date: 1/4/1997 Expiry Date: 31/10/2006 Issue No: 100 Version Start Date: 1/4/1997 Version End Date:
Not shown	1905	W	631700 254230	Status: Active Licence No: AN/035/0006/006 Details: Spray Irrigation - Direct Direct Source: Ground Water Source Of Supply Point: Borehole At Pettistree Data Type: Point Name: WESTROPE	Annual Volume (m³): 90700 Max Daily Volume (m³): 1438 Original Application No: NPS/WR/012302 Original Start Date: 1/4/2014 Expiry Date: 31/3/2026 Issue No: 1 Version Start Date: 1/4/2014 Version End Date:

6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site?

Yes

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details
Not shown	1936	W	631760 254530	<p>Status: Active Licence No: 7/35/06/*S/0043 Details: Spray Irrigation - Direct Direct Source: Surface Water Source Of Supply Point: Decoy Pond At Campsea Ash Data Type: Point Name: Trustees of The Spicmick 2013 Settlement</p> <p>Annual Volume (m³): 18000 Max Daily Volume (m³): 682 Application No: NPS/WR/016793 Original Start Date: 1/2/1966 Expiry Date: - Issue No: 103 Version Start Date: 10/10/2014 Version End Date:</p>
Not shown	1969	NW	631800 254700	<p>Status: Historical Licence No: 7/35/06/*S/0043 Details: Spray Irrigation - Direct Direct Source: Surface Water Source Of Supply Point: Decoy Pond At Campsea Ash Data Type: Point Name: STINNER</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 1/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/8/1984 Version End Date:</p>

6.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site?

Yes

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (6c):

ID	Distance (m)	Direction	NGR	Details
Not shown	1877	NW	632740 255510	<p>Status: Historical Licence No: 7/35/04/*G/0102 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water Source Of Supply Point: Well At Chantry Farm Data Type: Point Name: TENNYSON LANDSCAPES</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 1/6/1991 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>

6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site?

No

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site? No

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Is there any Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site? Yes

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/Intermediate Leaching Potential	I1	Soils which can possibly transmit a wide range of pollutants.
352	W	Minor Aquifer/High Leaching Potential	H2	Deep, permeable, coarse textured soils which readily transmit a wide range of pollutants because of their rapid drainage and low attenuation potential.

6.9 River Quality

Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site? Yes

6.9.1 Biological Quality:

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (6e):

ID	Distance (m)	Direction	NGR	River Quality Grade	Biological Quality Grade				
					2005	2006	2007	2008	2009
Not shown	1418	W	632200 253400	River Name: Deben Reach: Haunton Hall Gs...river Deben End/Start of Stretch: Start of Stretch NGR	B	C	C	C	B
Not shown	1418	W	632200 253400	River Name: Deben Reach: White Bridge Loudham...naunton Hill Gs. End/Start of Stretch: End of Stretch NGR	B	C	C	C	B

6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAH). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (6e):

ID	Distance (m)	Direction	NGR	River Quality Grade	Chemical Quality Grade				
					2005	2006	2007	2008	2009
Not shown	1418	W	632200 253400	River Name: Deben Reach: White Bridge Loudham Naunton Hill Gs. End/Start of Stretch: End of Stretch NGR	B	C	C	C	C
Not shown	1418	W	632200 253400	River Name: Deben Reach: Haunton Hall Gs River Deben End/Start of Stretch: Start of Stretch NGR	B	C	C	C	C

6.10 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site?

No

Database searched and no data found.

6.11 Surface Water Features

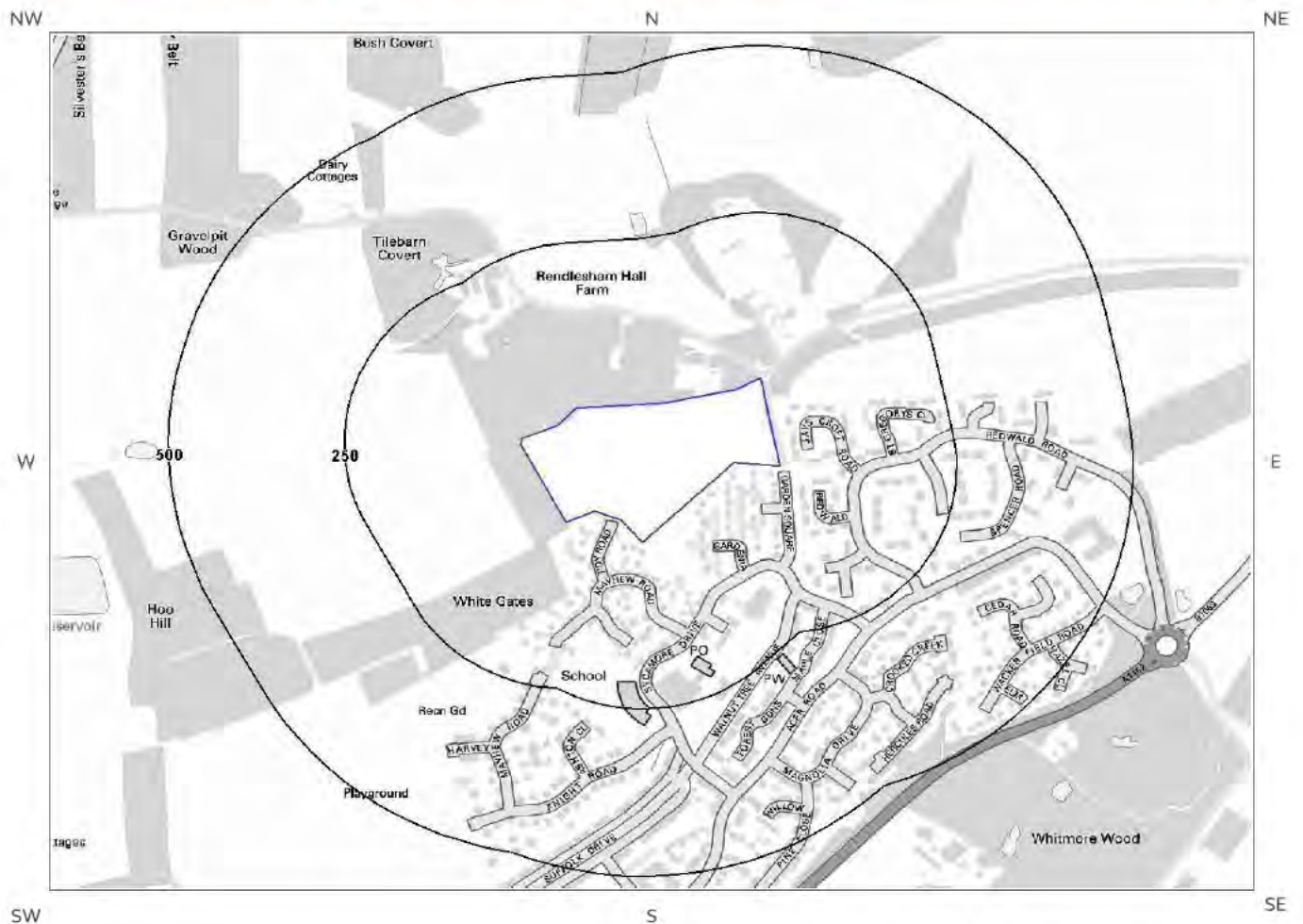
Are there any surface water features within 250m of the study site?

Yes

The following surface water records are not represented on mapping:

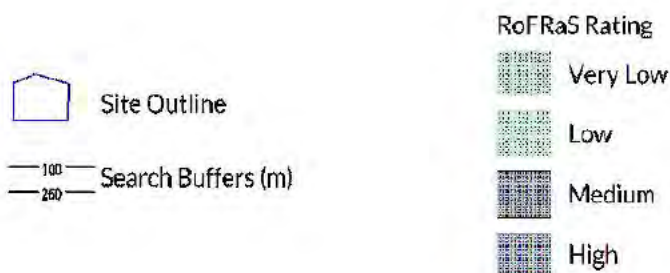
Distance (m)	Direction
0	On Site
201	NW

7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



© Crown copyright and database rights 2017.
Ordnance Survey license 100035207.





7 Flooding

7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 2 floodplain? No

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

Database searched and no data found.

7.2 River and Coastal Zone 3 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 3 floodplain? No

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

Database searched and no data found.

7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

What is the highest risk of flooding onsite? Very Low

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

7.4 Flood Defences

Are there any Flood Defences within 250m of the study site? No

Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site? No

7.6 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site?

No

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes

Does this relate to Clearwater Flooding or Superficial Deposits Flooding?

Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Limited potential

Where limited potential for groundwater flooding to occur is indicated, this means that although given the geological conditions there may be a groundwater flooding hazard, unless other relevant information, e.g. records of previous flooding, suggests groundwater flooding has occurred before in this area, you need take no further action in relation to groundwater flooding hazard.

7.8 Groundwater Flooding Confidence Areas

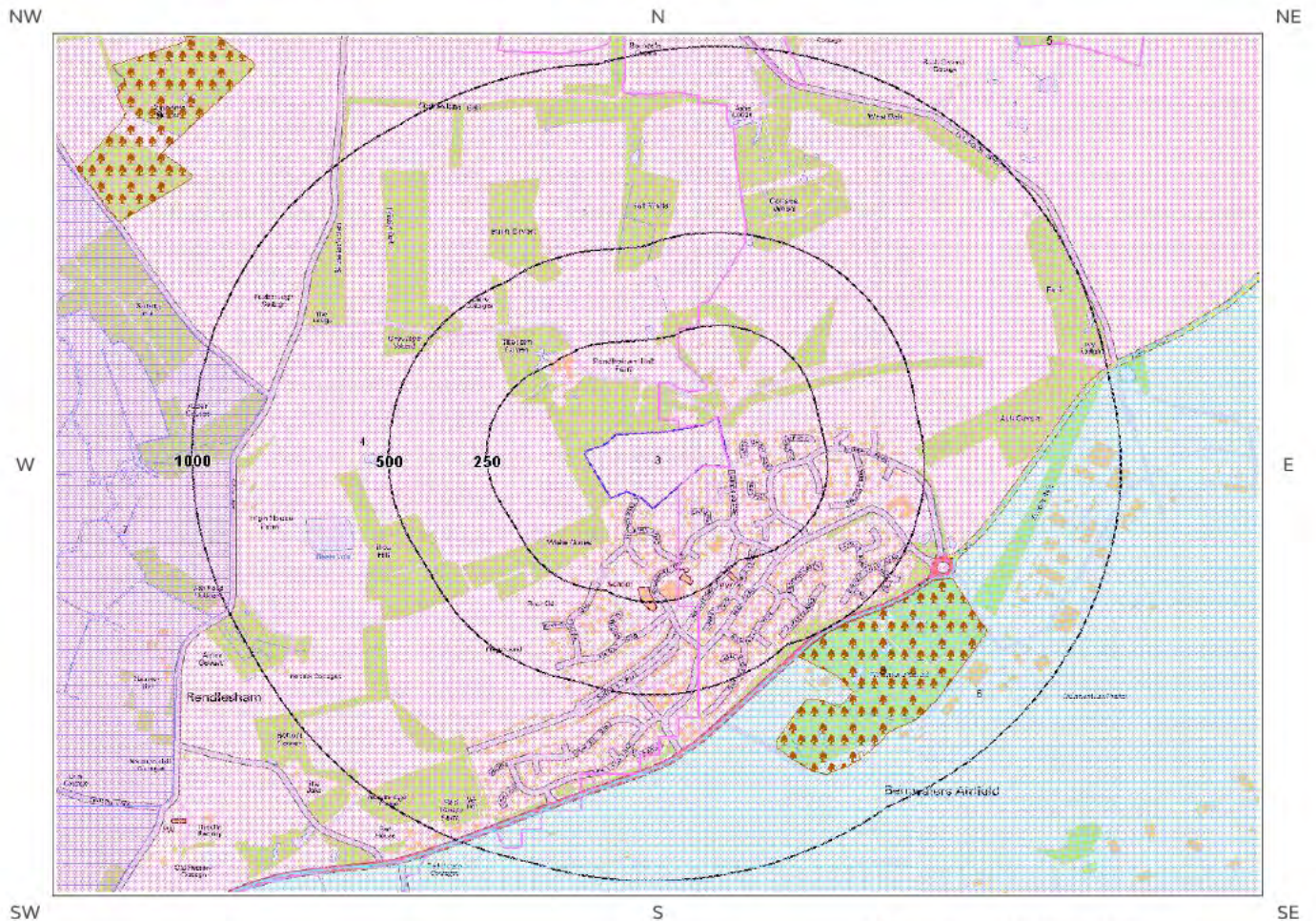
What is the British Geological Survey confidence rating in this result?

Low

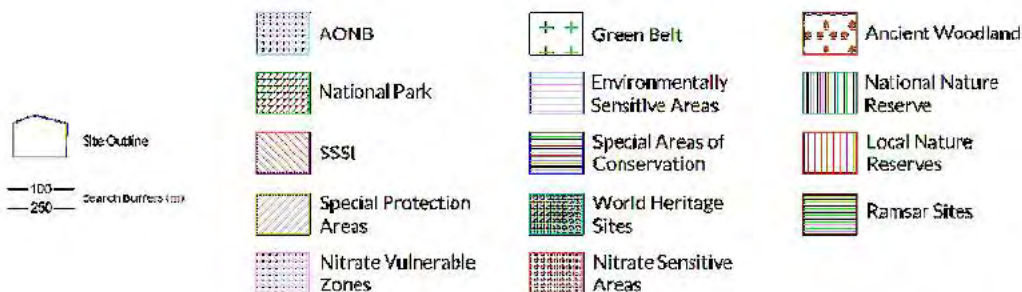
Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

8. Designated Environmentally Sensitive Sites Map



© Crown copyright and database rights 2017.
Ordnance Survey license 100035207.



8. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site? Yes

8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

1

The following Site of Special Scientific Interest (SSSI) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	SSSI Name	Data Source
Not shown	1539	S	Sandlings Forest	Natural England

8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

1

The following Special Protection Area (SPA) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	SPA Name	Data Source
Not shown	1539	S	Sandlings	Natural England

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

8.6 Records of Ancient Woodland within 2000m of the study site:

6

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
8	511	SE	UNKNOWN	Ancient and Semi-Natural Woodland
9	1245	NW	UNKNOWN	Ancient Replanted Woodland
Not shown	1821	E	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1831	NE	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1965	E	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1980	NE	UNKNOWN	Ancient Replanted Woodland

8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

0

Database searched and no data found.

8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

1

The following Environmentally Sensitive Area records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	ESA Name	Data Source
7	825	W	Suffolk River Valleys	Natural England

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

1

The following Area of Outstanding Natural Beauty (AONB) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	AONB/NSA Name	Data Source
6	506	SE	Suffolk Coast & Heaths	Natural England

8.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

3

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
3	0	On Site	Existing	DEFRA
4	0	On Site	Existing	DEFRA

ID	Distance (m)	Direction	NVZ Name	Data Source
5	921	N	Existing	DEFRA

8.14 Records of Green Belt land within 2000m of the study site:

Database searched and no data found.

0

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a **Groundsure Geo Insight**, available from **our website**. The following information has been found:

9.1.1 Shrink Swell

What is the maximum Shrink-Swell* hazard rating identified on the study site? Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.

9.1.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

9.1.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

* This indicates an automatically generated 50m buffer and site.

9.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

9.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

9.1.6 Running Sand

What is the maximum Running Sand* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

* This indicates an automatically generated 50m buffer and site.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing

ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Are there any coal mining areas within 75m of the study site?

No

Database searched and no data found.

10.2 Non-Coal Mining

Are there any Non-Coal Mining areas within 50m of the study site boundary?

No

Database searched and no data found.

10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site?

No

Guidance: No Guidance Required.

Contact Details

Groundsure Helpline
Telephone: 08444 159 000
info@groundsure.com



British Geological Survey Enquiries
Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:

Web: www.bgs.ac.uk

BGS Geological Hazards Reports and general geological enquiries:
enquiries@bgs.ac.uk



Environment Agency
National Customer Contact Centre, PO Box 544
Rotherham, S60 1BY
Tel: 03708 506 506
Web: www.environment-agency.gov.uk
Email: enquiries@environment-agency.gov.uk



Public Health England
Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe
Email: enquiries@phe.gov.uk
Main switchboard: 020 7654 8000



The Coal Authority
200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk



Ordnance Survey
Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505



Local Authority
Authority: Suffolk Coastal District Council
Phone: 01394 383 789
Web: <http://www.suffolkcoastal.gov.uk/>
Address: Melton Hill, Woodbridge, Suffolk, IP12 1AU

Gemapping PLC
Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444



Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England who retain the Copyright and Intellectual Property Rights for the data.

PointX © Database Right/Copyright, Thomson Directories Limited © Copyright Link Interchange Network Limited © Database Right/Copyright and Ordnance Survey © Crown Copyright and/or Database Right. All Rights Reserved. Licence Number [03421028].

This report has been prepared in accordance with the Groundsure Ltd standard Terms and Conditions of business for work of this nature.

Standard Terms and Conditions

Groundsure's Terms and Conditions can be viewed online at this link:
<https://www.groundsure.com/terms-and-conditions-sept-2016>