



Groundsure

LOCATION INTELLIGENCE

Earth Environmental & Geotechnical Ltd
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Groundsure Reference: GS-3520849

Your Reference: A1819-16

Report Date 13 Dec 2016

Report Delivery Method: Email - pdf

Groundsure Enviro Insight

Address: BUSKER LANE, HUDDERSFIELD, HD8 9JU

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

Groundsure Enviro Insight

Address: BUSKER LANE, HUDDERSFIELD, HD8 9JU
Date: 13 Dec 2016
Reference: GS-3520849
Client: Earth Environmental & Geotechnical Ltd



Aerial Photograph Capture date: 26-Mar-2012
Grid Reference: 424652,410309
Site Size: 0.59ha

Report Reference: GS-3520849
Client Reference: A1819-16

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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	1	42	22
1.2 Additional Information – Historical Tank Database	0	0	6	4
1.3 Additional Information – Historical Energy Features Database	0	0	9	13
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	6
1.6 Potentially Infilled Land	0	4	21	23
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	1
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	1	2
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	1	0	4
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	1	0	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	0	0	0

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	0	23	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?	No
5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	None
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	2	2	2	11
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
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)	2	0	0	3	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	1	14	Not searched	Not searched
6.11 Surface water features within 250m of the study site	No	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?						Yes
7.2 Are there any Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site?						Yes
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	0
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	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	0	0	4	6
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	0	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	0	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	0	0	0	0	0	2
8.14 Records of Green Belt land	1	0	0	2	0	2

Section 9: Natural Hazards

9.1 What is the maximum risk of natural ground subsidence?	Very Low
9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?	Very Low
9.1.2 What is the maximum Landslides hazard rating identified on the study site?	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?	Negligible
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?	Yes
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.

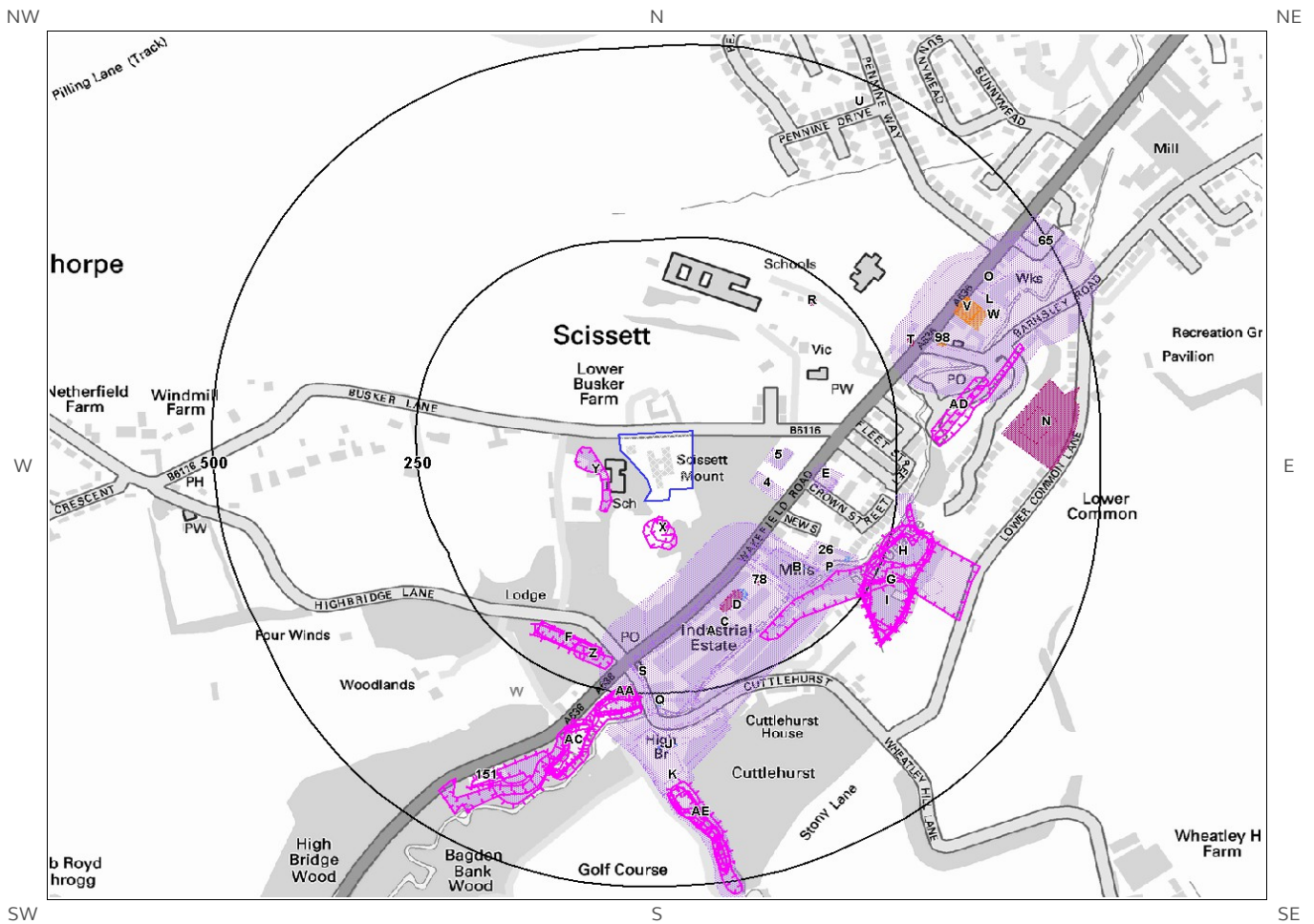
Note: Maps

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).

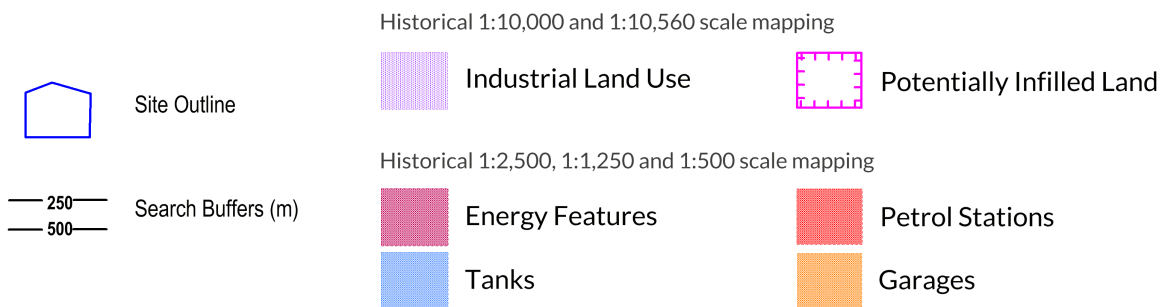
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

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.

1. Historical Land Use



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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: 65

ID	Distance [m]	Direction	Use	Date
1Y	30	SW	Unspecified Ground Workings	1892
2D	63	SE	Unspecified Mill	1967
3A	63	SE	Unspecified Mill	1979
4	70	E	Telephone Exchange	1979
5	87	E	Telephone Exchange	1993
6B	104	SE	Unspecified Mills	1948
7A	105	SE	Unspecified Mills	1938
8B	107	SE	Unspecified Mills	1951
9C	107	SE	Unspecified Commercial/Industrial	1904
10A	108	SE	Unspecified Mills	1948
11C	112	SE	Unspecified Mills	1951
12C	113	SE	Industrial Estate	1993
13A	120	SE	Unspecified Mills	1892
14B	126	SE	Unspecified Mill	1967
15B	127	SE	Unspecified Mills	1993
16B	127	SE	Unspecified Mill	1979
17E	141	E	Police Station	1967
18D	141	S	Unspecified Tanks	1938
19D	143	SE	Unspecified Tank	1951
20D	143	S	Unspecified Tanks	1948
21D	143	S	Unspecified Tanks	1904
22E	147	E	Police Station	1938
23E	148	E	Police Station	1948
24E	151	E	Police Station	1951
25D	151	S	Unspecified Tanks	1892
26	162	SE	Unspecified Mills	1938
27G	190	SE	Colliery	1892
28F	195	SW	Cuttings	1951
29F	198	SW	Unspecified Pit	1938
30F	198	SW	Unspecified Pit	1938
31F	199	SW	Unspecified Ground Workings	1948
32F	199	SW	Unspecified Ground Workings	1904

33Z	202	S	Unspecified Pit	1892
34G	235	SE	Refuse Heaps	1938
35G	235	SE	Refuse Heaps	1938
36H	237	SE	Unspecified Ground Workings	1979
37H	237	SE	Unspecified Ground Workings	1993
38H	237	SE	Unspecified Ground Workings	1967
39G	241	SE	Refuse Heaps	1951
40I	242	SE	Refuse Heap	1904
41H	242	E	Refuse Heap	1948
42I	243	SE	Refuse Heap	1948
43H	249	E	Railway Sidings	1904
44I	252	SE	Unspecified Heap	1993
45I	252	SE	Unspecified Heap	1979
46I	252	SE	Unspecified Heap	1967
47I	254	SE	Unspecified Heap	1892
48W	261	E	Unspecified Mill	1892
49H	264	E	Railway Sidings	1892
50J	274	S	Unspecified Disused Mills	1938
51J	275	S	Unspecified Disused Mills	1948
52J	275	S	Unspecified Mills	1904
53K	277	S	Unspecified Disused Mills	1951
54K	277	S	Unspecified Works	1967
55	281	S	Unspecified Mills	1892
56L	302	NE	Unspecified Works	1948
57M	305	S	Refuse Heap	1967
58L	319	E	Unspecified Mill	1904
59M	347	S	Unspecified Heap	1892
60N	379	E	Electric Substation	1988
61N	379	E	Electric Substation	1981
62O	391	NE	Unspecified Works	1938
63O	394	NE	Unspecified Works	1981
64O	394	NE	Unspecified Works	1988
65	459	NE	Unspecified Mill	1904

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:

10

ID	Distance (m)	Direction	Use	Date
----	--------------	-----------	-----	------

66D	142	S	Gasometers	1906
67D	142	S	Gasometers	1893
68D	142	SE	Unspecified Tank	1959
69B	170	SE	Unspecified Tank	1913
70P	196	SE	Tanks	1913
71P	207	SE	Tanks	1913
72Q	261	S	Unspecified Tank	1893
73Q	261	S	Unspecified Tank	1906
74J	316	S	Tanks	1913
75J	318	S	Tanks	1913

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:

22

ID	Distance (m)	Direction	Use	Date
76D	142	S	Gasometers	1906
77D	142	S	Gasometers	1893
78	145	SE	Electricity Substation	1970
79R	217	NE	Electricity Substation	1995
80R	217	NE	Electricity Substation	1995
81R	220	NE	Electricity Substation	1989
82R	221	NE	Electricity Substation	1970
83S	223	S	Electricity Substation	1995
84S	223	S	Electricity Substation	1995
85T	287	NE	Electricity Substation	1995
86T	287	NE	Electricity Substation	1995
87T	288	NE	Electricity Substation	1989
88T	288	NE	Electricity Substation	1970
89N	380	E	Electricity Substation	1991
90N	380	E	Electricity Substation	1979
91N	380	E	Electricity Substation	1988
92N	400	E	Electricity Substation	1980
93N	400	E	Electricity Substation	1970
94U	467	NE	Electricity Substation	1995
95U	467	NE	Electricity Substation	1995
96U	468	NE	Electricity Substation	1989
97U	470	NE	Electricity Substation	1970

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: 6

ID	Distance (m)	Direction	Use	Date
98	320	E	Garage	1989
99V	355	NE	Garage	1988
100V	355	NE	Garage	1991
101L	355	NE	Garage	1979
102W	355	NE	Garage	1980
103V	359	NE	Garage	1970

1.6 Potentially Infilled Land

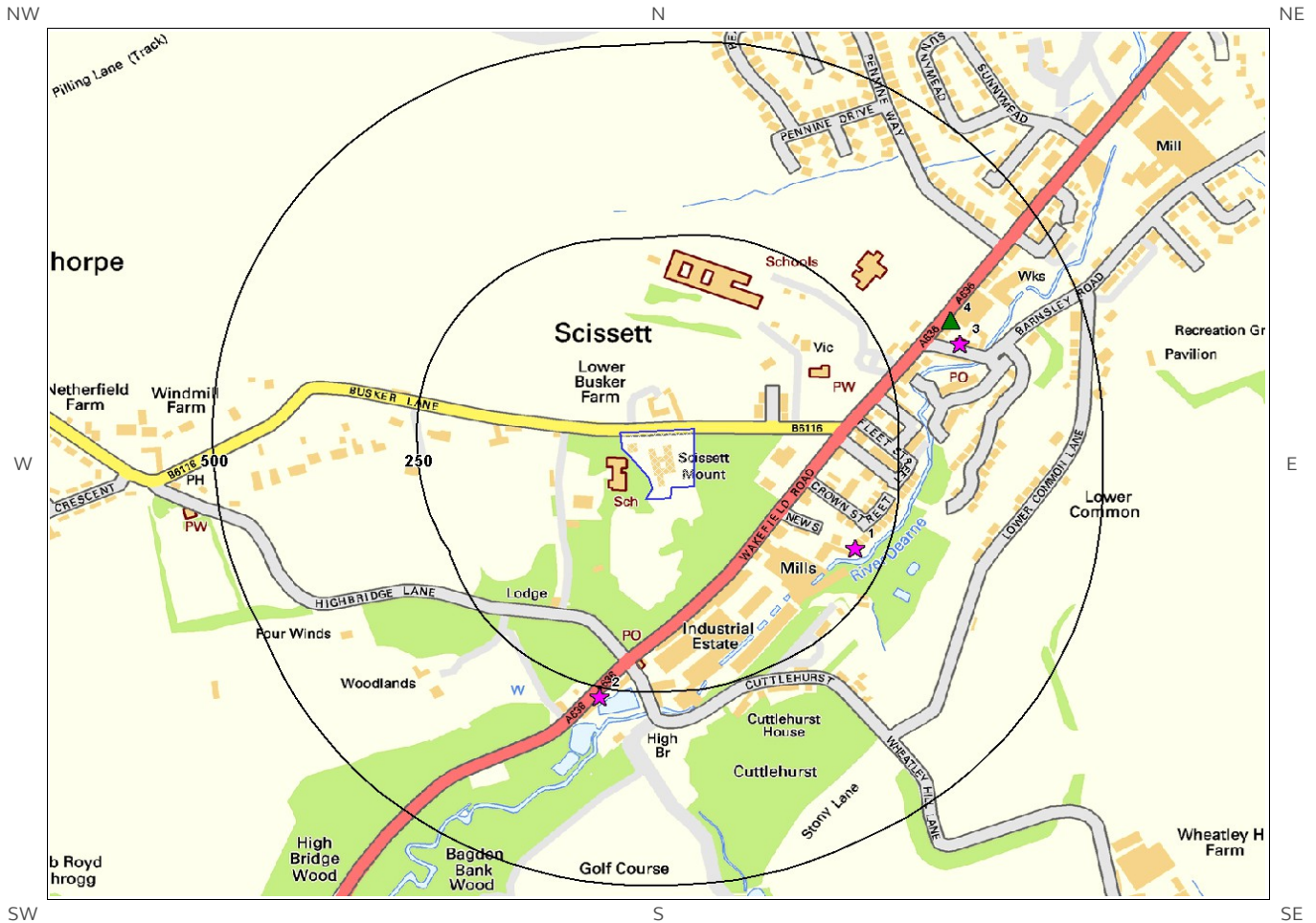
Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 48

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
















ID	Distance(m)	Direction	Use	Date
104X	21	S	Pond	1967
105X	21	S	Pond	1979
106X	24	S	Pond	1892
107Y	30	SW	Unspecified Ground Workings	1892
108G	190	SE	Colliery	1892
109F	195	SW	Cuttings	1951
110F	198	SW	Unspecified Pit	1938
111F	198	SW	Unspecified Pit	1938
112F	199	SW	Unspecified Ground Workings	1904
113F	199	SW	Unspecified Ground Workings	1948
114Z	202	S	Unspecified Pit	1892
115G	235	SE	Refuse Heaps	1938

116G	235	SE	Refuse Heaps	1938
117H	237	SE	Unspecified Ground Workings	1993
118H	237	SE	Unspecified Ground Workings	1967
119H	237	SE	Unspecified Ground Workings	1979
120AA	240	S	Pond	1993
121G	241	SE	Refuse Heaps	1951
122I	242	SE	Refuse Heap	1904
123AA	242	S	Reservoir	1948
124H	242	E	Refuse Heap	1948
125AB	243	S	Ponds	1904
126AA	243	S	Reservoir	1938
127I	243	SE	Refuse Heap	1948
128AB	249	S	Reservoirs	1892
129I	252	SE	Unspecified Heap	1967
130I	252	SE	Unspecified Heap	1993
131I	252	SE	Unspecified Heap	1979
132I	254	SE	Unspecified Heap	1892
133AA	258	S	Pond	1967
134AA	258	S	Pond	1983
135AC	292	S	Ponds	1967
136AC	292	S	Reservoirs	1951
137AC	292	S	Ponds	1983
138AD	293	E	Pond	1904
139AD	296	E	Pond	1892
140AC	297	S	Reservoirs	1948
141AC	298	S	Reservoirs	1938
142M	305	S	Refuse Heap	1967
143M	347	S	Unspecified Heap	1892
144AE	365	S	Pond	1967
145AE	365	S	Reservoirs	1951
146AE	371	S	Reservoirs	1938
147AE	372	S	Ponds	1904
148AE	372	S	Ponds	1948
149	377	S	Ponds	1892
150M	382	SW	Ponds	1983
151	395	SW	Pond	1967

2. Environmental Permits, Incidents and Registers Map



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- | | | | | | |
|---|-------------------------------|---|--|---|---|
|  | Site Outline |  | Recorded Pollution Incident |  | RAS 3 & 4 Authorisations |
|  | Dangerous Substances (List 1) |  | Part A(1) Authorised Processes and Historic IPC Authorisations |  | Part A(2) and Part B Authorised Processes |
|  | Dangerous Substances (List 2) |  | Water Industry Referrals |  | COMAH / NIHHS Sites |
|  | Licensed 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:

1

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details
4	342	NE	425003 410487	Address: Jay Ray Vehicle Solution Ltd, Riverside Business Park, Wakefield Road, Scissett, Huddersfield, HD8 9HR Process: Waste Oil Burner <0.4MW Status: New Legislation Applies Permit Type: Part B Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified

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:

3

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
1	212	E	424886 410194	Incident Date: 13-Mar-2003 Incident Identification: 142836 Pollutant: Organic Chemicals/Products Pollutant Description: Adhesives	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
2	262	S	424572 410002	Incident Date: 01-Sep-2003 Incident Identification: 186384 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3	342	E	425014 410458	Incident Date: 16-Jul-2003 Incident Identification: 174160 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

0

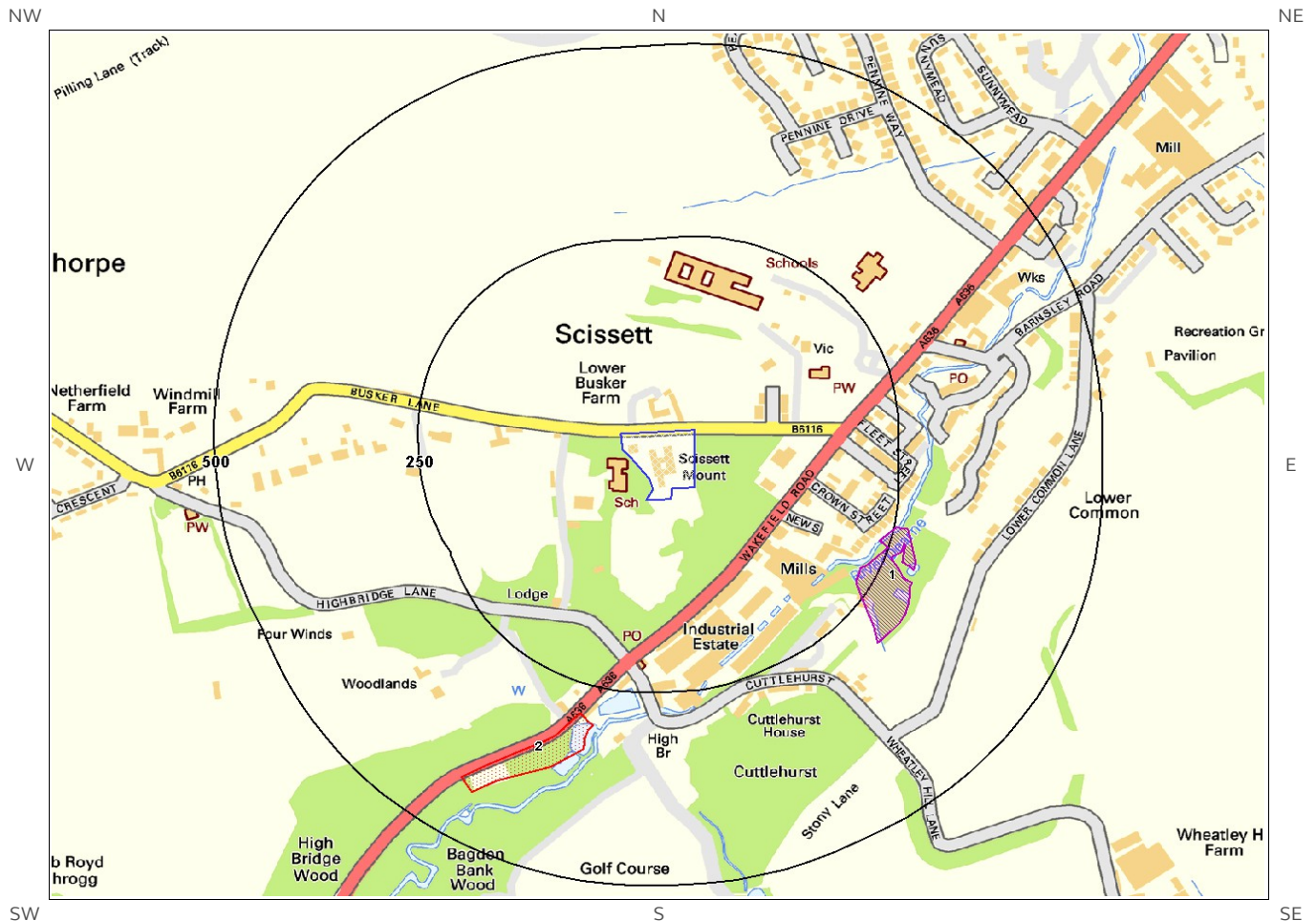
Database searched and no data found.

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



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- | | | | | | |
|---|------------------------|---|---------------------------|---|---|
|  | Site Outline |  | EA/NRW Active Landfill |  | Historic and Planned Waste Sites |
|  | 250 Search Buffers (m) |  | EA/NRW Historic Landfill |  | EA/NRW Licensed Waste Site |
|  | 500 Search Buffers (m) |  | BGS / DoE Survey Landfill |  | Local Authority/Historical Mapping Landfill Records |

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:

5

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details
2	288	S	424400 409900	<p>Site Address: Wakefield Road, Bagden Bank Wood, Scissett Waste Licence: - Site Reference: 4400/(52) Waste Type: - Environmental Permitting Regulations (Waste) Reference: -</p> <p>Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -</p>
Not shown	1007	SE	425400 409600	<p>Site Address: Quarry off Wheatley Hill Lane, High Hoyland, Clayton West, Denby Dale, Huddersfield Waste Licence: Yes Site Reference: 4400/(96), 4700/0283 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: -</p> <p>Licence Issue: 23-Jan-1978 Licence Surrendered: 23-Apr-1994 Licence Holder Address: Wheatley Hill Farm, Clayton Wear, Huddersfield Operator: - Licence Holder: Mr C Broove First Recorded: 31-Jan-1978 Last Recorded: 31-Mar-1994</p>
Not shown	1116	SE	425600 409600	<p>Site Address: Wheatley Hill Farm, High Hoyland, Denby Dale Waste Licence: Yes Site Reference: 643 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -</p> <p>Licence Issue: 09-Nov-1981 Licence Surrendered: Licence Holder Address: Aycliffe Farm, Harecroft, Wilsden, Bradford Operator: - Licence Holder: D Bottomley First Recorded: - Last Recorded: -</p>
Not shown	1126	SE	425600 409600	<p>Site Address: Land at Wheatley Hill Farm, High Hoyland, Clayton West, Denby Dale, Huddersfield Waste Licence: Yes Site Reference: 4400/0133 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: -</p> <p>Licence Issue: 27-Sep-1979 Licence Surrendered: 23-Apr-1994 Licence Holder Address: Wheatley Hill Farm, Clayton West, Kirklees Operator: - Licence Holder: W H Brook and Sons First Recorded: 30-Sep-1979 Last Recorded: 23-Apr-1994</p>

ID	Distance (m)	Direction	NGR	Details		
Not shown	1489	S	424300 408700	Site Address: Field 3074/3981, Clough House Lane, Denby Dale Waste Licence: Yes Site Reference: 561, 4700/0275 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 23-Sep-1981 Licence Surrendered: 28-Apr-1994 Licence Holder Address: Dry Hill Farm, Dry Hill Lane, Denby Dale Operator: - Licence Holder: H Buckley Esquire First Recorded: 31-May-1986 Last Recorded: 31-Dec-1990	

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:

1

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

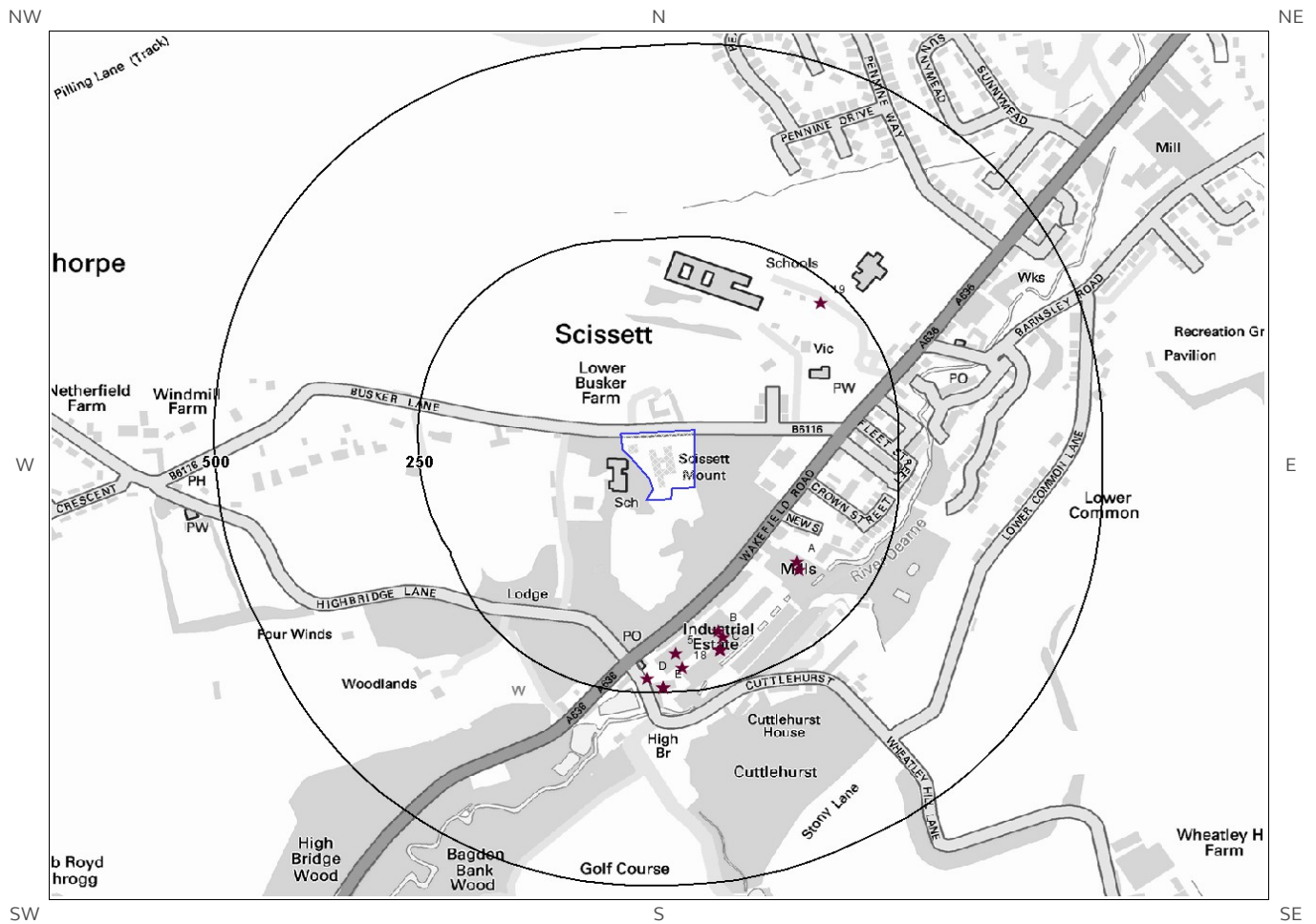
ID	Distance (m)	Direction	NGR	Details		
1	228	SE	424924 410146	Type of Site: Ground Workings and Refuse Heap Site Address: N/A	Planning Application Reference: N/A Date: 1913	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon

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

0

Database searched and no data found.

4. Current Land Use Map



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-  Site Outline
-  Current Industrial Sites
-  Electricity Transmission Cables
-  Search Buffers (m)
-  Petrol & Fuel Sites
-  Gas Transmission Pipelines

4. Current Land Uses

4.1 Current Industrial Data

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

23

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

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1A	157	SE	GB Battery	424815 410178	Unit 5 Union Business Centre, Wakefield Road, Scissett, Huddersfield, HD8 9JL	Electrical Production and Manipulation Equipment	Industrial Products
2A	165	SE	Autophilia Ltd	424817 410168	Unit 6 Union Business Centre, Wakefield Road, Scissett, Huddersfield, HD8 9JL	Vehicle Parts and Accessories	Motoring
3B	180	S	Fastcolours	424718 410089	Nortonthorpe Mills, Wakefield Road, Huddersfield, HD8 9LA	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
4B	189	S	Nortonthorpe Industrial Estate	424724 410081	HD8	Business Parks and Industrial Estates	Industrial Features
5	199	S	Dearneside Press	424665 410060	Unit 4 Union Business Centre, Wakefield Road, Scissett, Huddersfield, HD8 9JL	Published Goods	Industrial Products
6C	204	S	R P L	424720 410064	Unit 39 Nortonthorpe Industrial Estate, Wakefield Road, Scissett, Huddersfield, HD8 9FB	Air and Water Filtration	Industrial Products
7C	204	S	Turbocharger Service UK Ltd	424720 410064	Unit 36 Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Vehicle Parts and Accessories	Motoring
8C	204	S	Prima Oliva	424720 410064	Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Catering and Non Specific Food Products	Foodstuffs
9C	204	S	European OGD	424720 410064	Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
10C	204	S	Shield Coatings Ltd	424720 410064	Unit 7/B Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Industrial Coatings and Finishings	Industrial Products
11C	204	S	Woods Trophies & Engravers	424720 410064	Unit 13/A Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Medals, Trophies, Ceremonial and Religious Goods	Consumer Products
12C	204	S	Lucianne Upholstery	424720 410064	Unit 7d Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Furniture	Consumer Products

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
13C	204	S	Seatable UK Ltd	424720 410064	Unit 21 Nortonthorpe Industrial Estate, Wakefield Road, Scissett, Huddersfield, HD8 9FB	Furniture	Consumer Products
14C	204	S	Nortonthorpe Van Sales	424720 410064	Unit 18/B Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	New Vehicles	Motoring
15C	204	S	The Fire Place & Stove Centre	424720 410064	Unit 18/A Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Fireplaces and Mantelpieces	Consumer Products
16C	204	S	J J Turbochargers	424720 410064	Unit 7a Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Vehicle Parts and Accessories	Motoring
17C	204	S	Graphicapp Ltd	424720 410064	Unit 18/C Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Published Goods	Industrial Products
18	219	S	Highbridge Motor Spares	424673 410040	Unit 10 Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Vehicle Parts and Accessories	Motoring
19	226	NE	Electricity Sub Station	424844 410514	HD8	Electrical Features	Infrastructure and Facilities
20D	231	S	Electricity Sub Station	424631 410027	HD8	Electrical Features	Infrastructure and Facilities
21D	243	S	Jenkinson Co Calendars	424650 410015	Block 1 Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Published Goods	Industrial Products
22E	243	S	Cocoon Trading Ltd	424650 410015	Block 1 Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Clothing, Components and Accessories	Consumer Products
23E	243	S	Shelley Automation Ltd	424650 410015	Block 1 Nortonthorpe Mills, Wakefield Road, Scissett, Huddersfield, HD8 9LA	Pumps and Compressors	Industrial Products

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

Database searched and no data found.

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

5.2 Superficial Ground and Drift Geology

Database searched and no data found.

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

5.3 Bedrock and Solid Geology

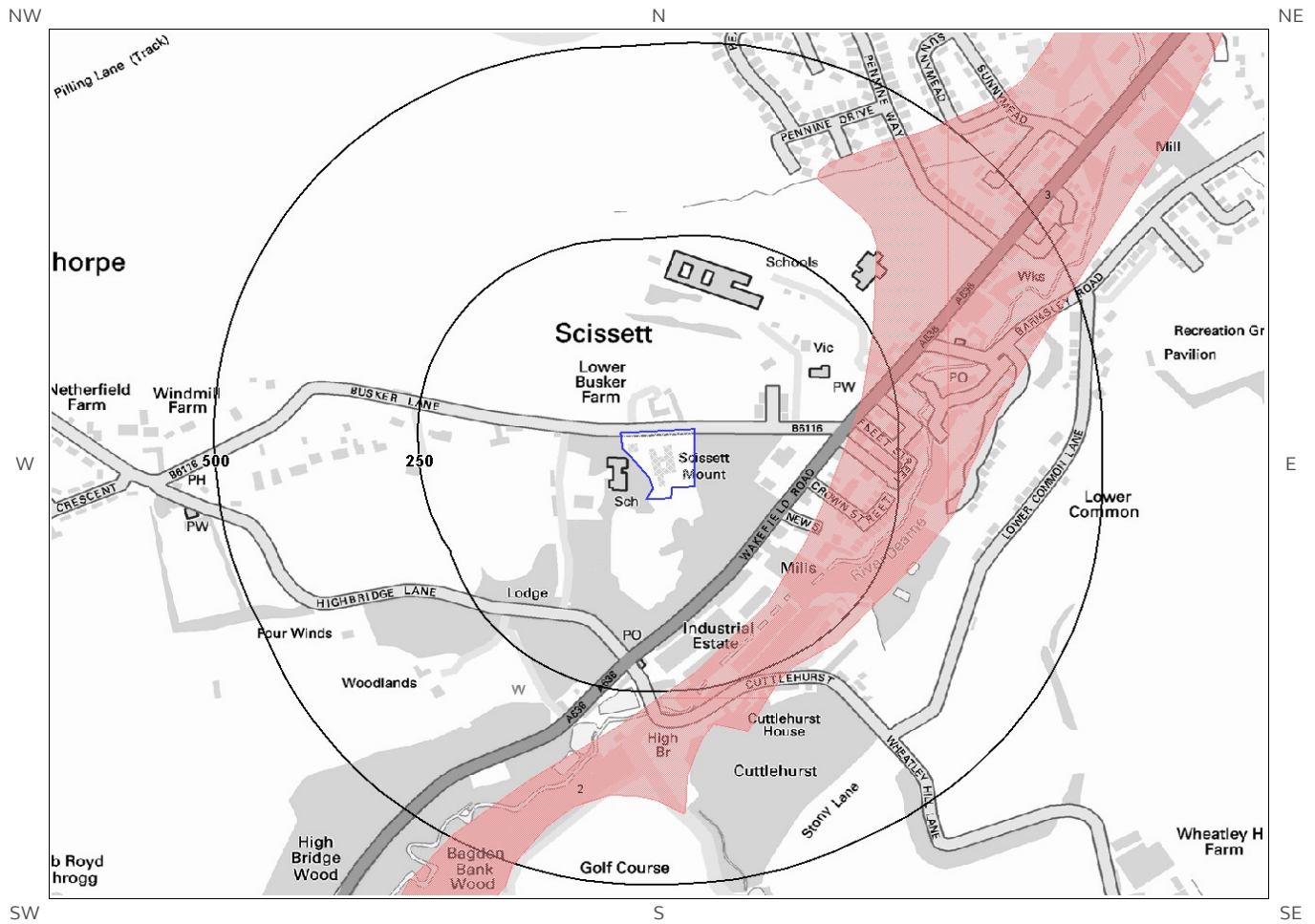
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
PF-SDST	PENISTONE FLAGS	SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE

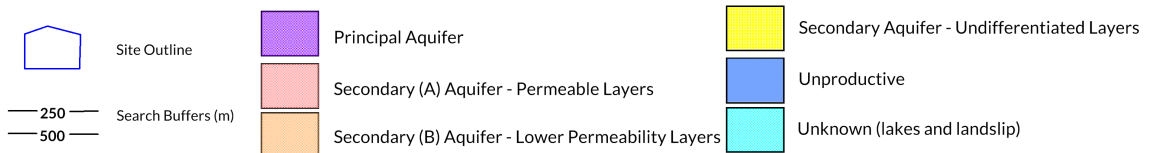
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

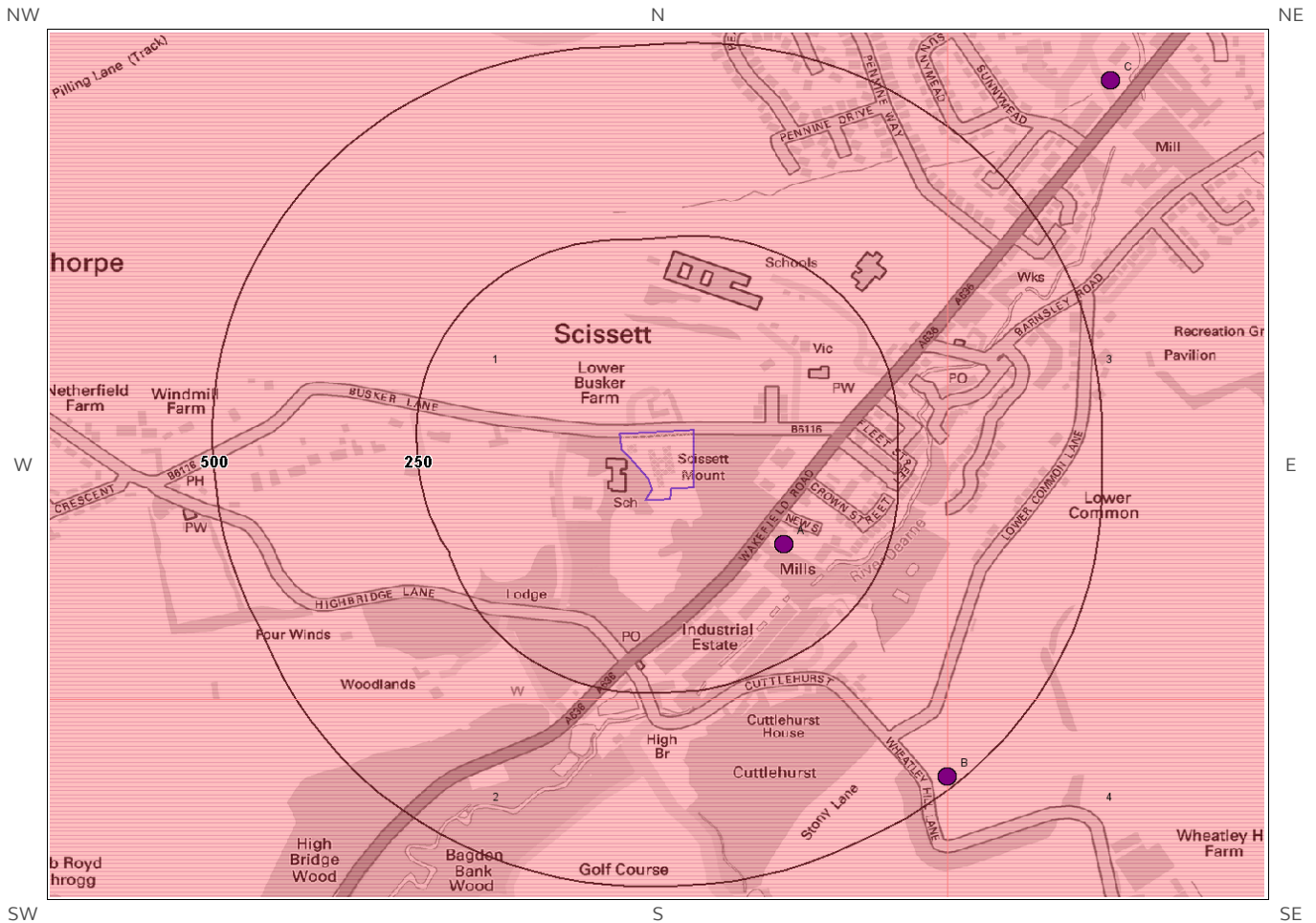
6a. Aquifer Within Superficial Geology



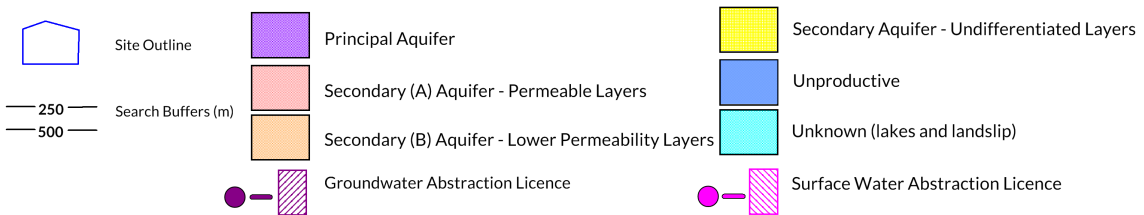
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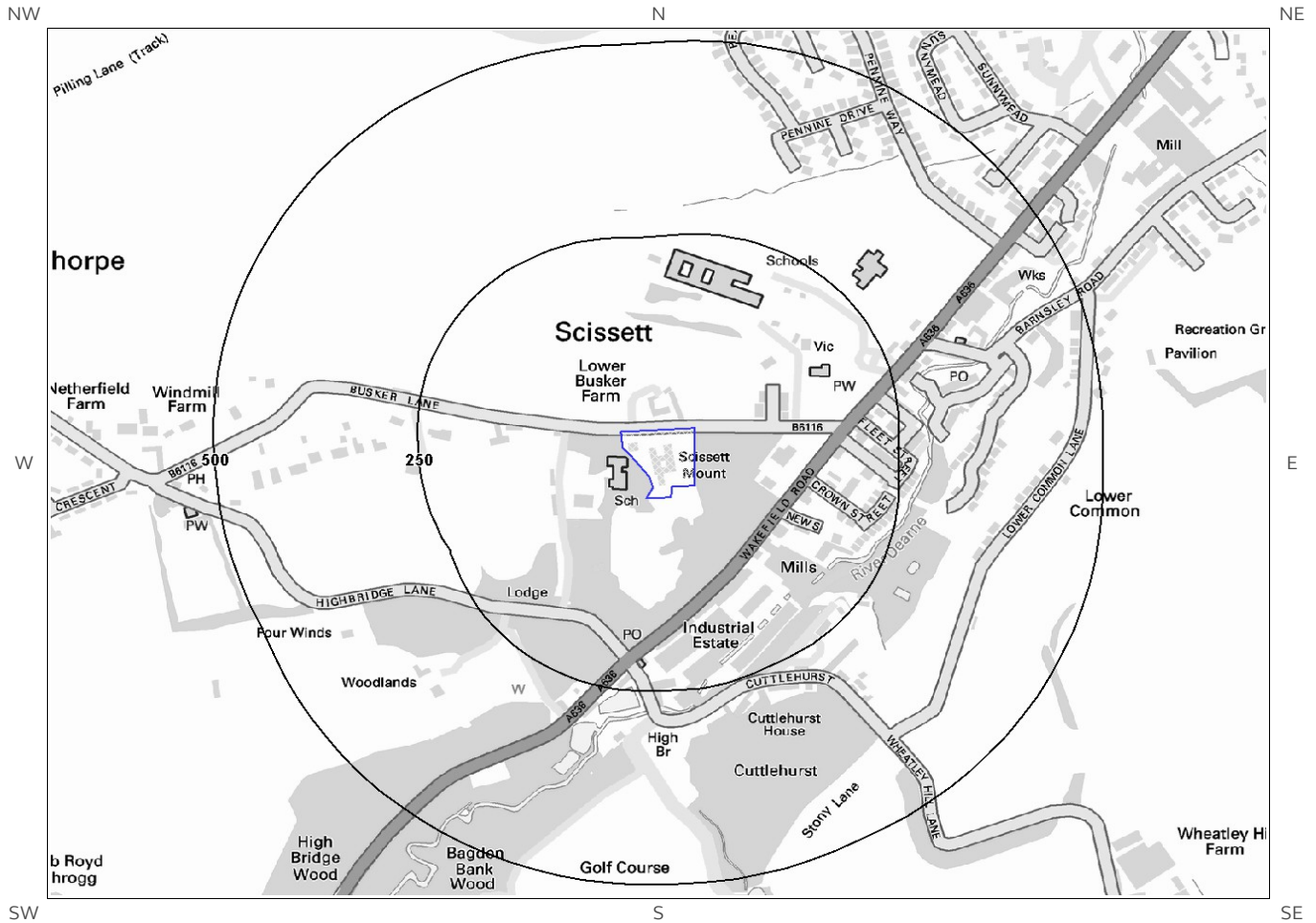
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



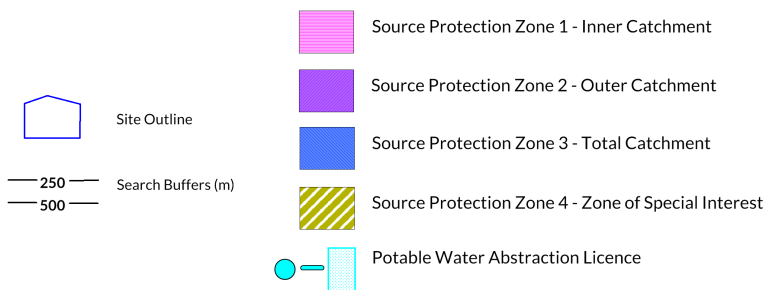
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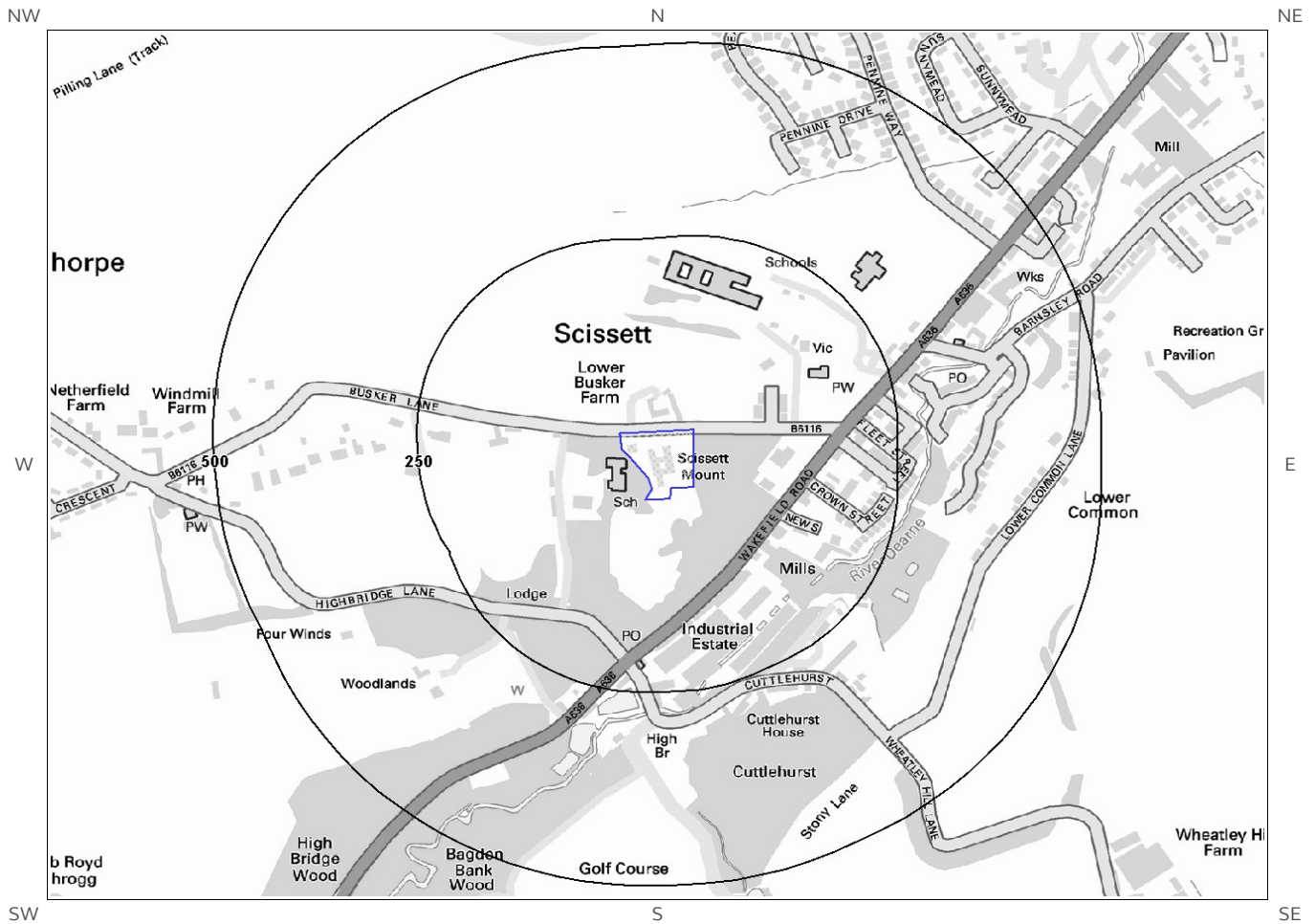
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



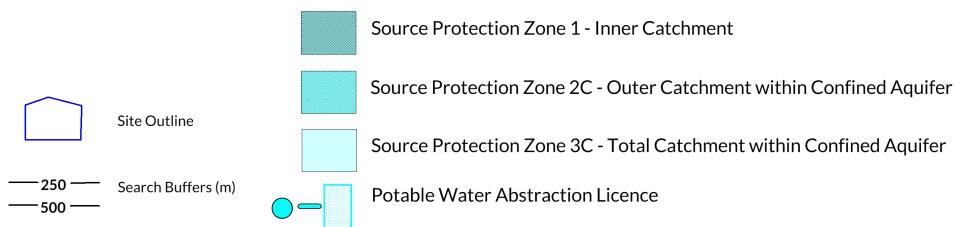
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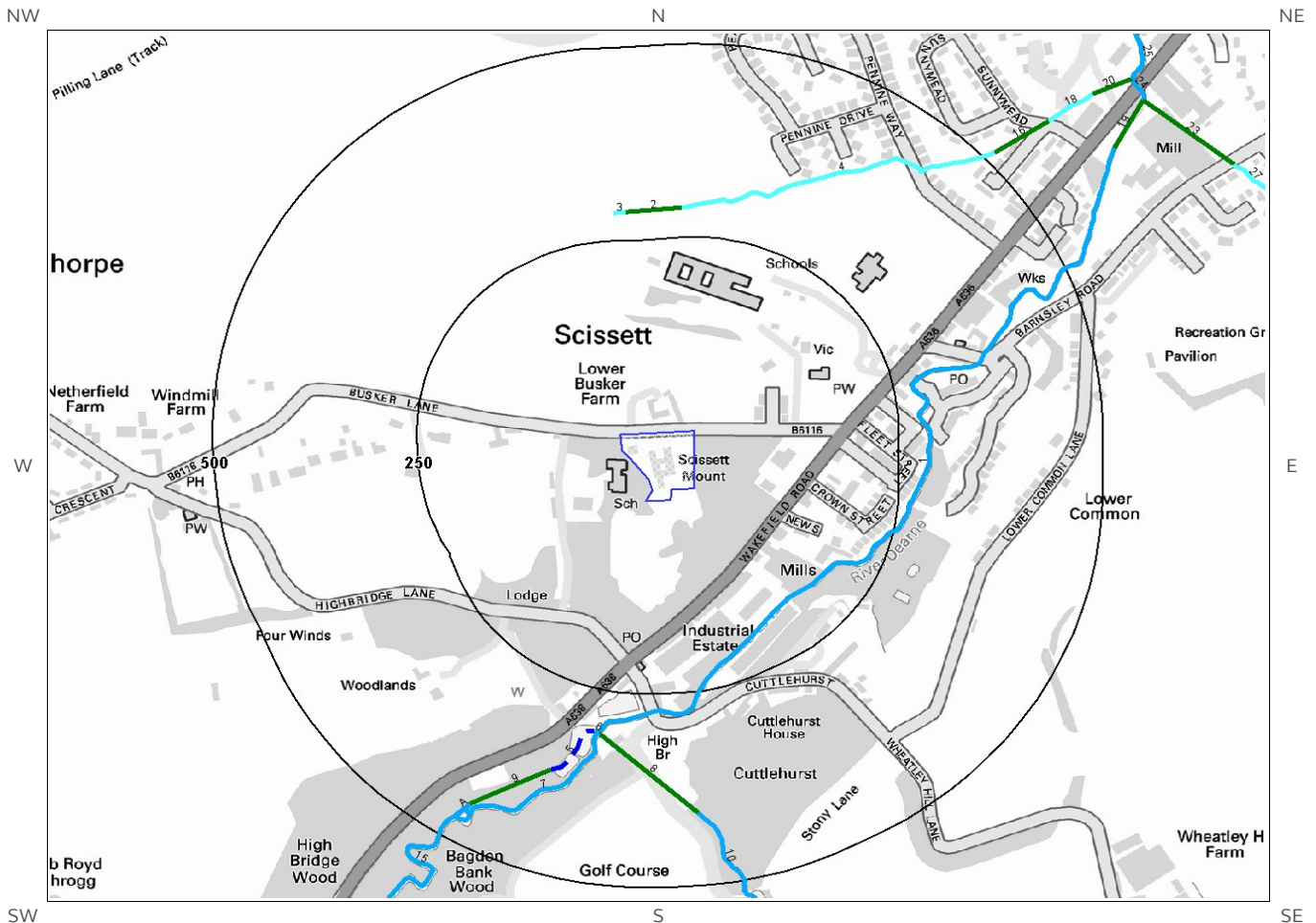
6d. Hydrogeology – Source Protection Zones within confined aquifer



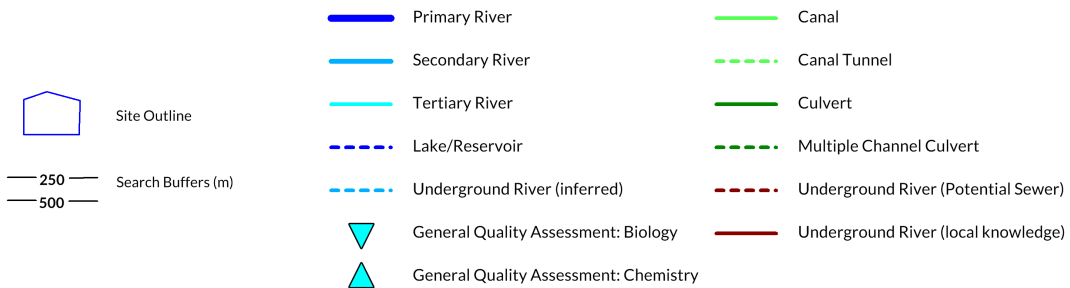
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6e. Hydrology – Detailed River Network and River Quality



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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
1	153	SE	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	258	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
3	310	E	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	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	258	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
3	310	E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	414	SE	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

6.3 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
5A	133	SE	424800 410200	Status: Historical Licence No: 2/27/08/028 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole Data Type: Point Name: PHOENOX TEXTILES LTD Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 1029 Original Start Date: 20/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/1/1966 Version End Date:
6A	133	SE	424800 410200	Status: Historical Licence No: 2/27/08/028 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole - Coal Measures - Scissett Data Type: Point Name: PHOENOX TEXTILES LTD Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 01029 Original Start Date: 20/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/1/1966 Version End Date:
7B	486	SE	425000 409900	Status: Historical Licence No: 2/27/08/116 Details: General Farming & Domestic Direct Source: Groundwaters Point: Borehole Data Type: Point Name: W H BROOK & SON Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 6773 Original Start Date: 20/12/1996 Expiry Date: - Issue No: 100 Version Start Date: 20/12/1996 Version End Date:
8B	486	SE	425000 409900	Status: Historical Licence No: 2/27/08/116 Details: General Farming & Domestic Direct Source: Groundwaters Point: Borehole - Coal Measures - Clayton West Data Type: Point Name: W H BROOK & SON Annual Volume (m ³): 9928 Max Daily Volume (m ³): 27.2 Original Application No: 6773 Original Start Date: 20/12/1996 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2008 Version End Date:
9C	681	NE	425200 410800	Status: Historical Licence No: 2/27/08/112 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole Data Type: Point Name: AUCKLAND Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 6718 Original Start Date: 20/6/1996 Expiry Date: - Issue No: 100 Version Start Date: 20/6/1996 Version End Date:
10C	681	NE	425200 410800	Status: Historical Licence No: 2/27/08/112 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole - Coal Measures - Scissett Data Type: Point Name: AUCKLAND Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 06718 Original Start Date: 20/6/1996 Expiry Date: - Issue No: 100 Version Start Date: 20/6/1996 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1019	NW	423660 410740	<p>Status: Historical Licence No: 2/27/13/174 Details: Raw Water Supply Direct Source: Groundwaters Point: Borehole-coal Measures-skelmanthorpe Data Type: Point Name: SIMMONDS</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 06654 Original Start Date: 23/12/1994 Expiry Date: - Issue No: 101 Version Start Date: 3/6/2001 Version End Date:</p>
Not shown	1019	NW	423660 410740	<p>Status: Historical Licence No: 2/27/13/174 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Groundwaters Point: Borehole Data Type: Point Name: SIMMONDS</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 6654 Original Start Date: 23/12/1994 Expiry Date: - Issue No: 100 Version Start Date: 23/12/1994 Version End Date:</p>
Not shown	1413	NW	423300 410900	<p>Status: Historical Licence No: 2/27/08/091 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: Groundwaters Point: Borehole Data Type: Point Name: DAWSON FUR FABRICS LIMITED</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 5539 Original Start Date: 27/9/1977 Expiry Date: - Issue No: 100 Version Start Date: 27/9/1977 Version End Date:</p>
Not shown	1413	NW	423300 410900	<p>Status: Historical Licence No: 2/27/08/091 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole - Coal Measures - Skelmathorpe Data Type: Point Name: FLEECE LTD INC DAWSON FABRICS</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 05539 Original Start Date: 27/9/1977 Expiry Date: - Issue No: 102 Version Start Date: 1/10/2002 Version End Date:</p>
Not shown	1413	NW	423300 410900	<p>Status: Historical Licence No: 2/27/08/091 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole Data Type: Point Name: DAWSON FUR FABRICS LIMITED</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 5539 Original Start Date: 27/9/1977 Expiry Date: - Issue No: 100 Version Start Date: 27/9/1977 Version End Date:</p>
Not shown	1413	NW	423300 410900	<p>Status: Historical Licence No: 2/27/08/091 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: Groundwaters Point: Borehole - Coal Measures - Skelmathorpe Data Type: Point Name: FLEECE LTD INC DAWSON FABRICS</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 05539 Original Start Date: 27/9/1977 Expiry Date: - Issue No: 102 Version Start Date: 1/10/2002 Version End Date:</p>
Not shown	1413	NW	423300 410900	<p>Status: Historical Licence No: 2/27/08/091 Details: Process Water Direct Source: Groundwaters Point: Borehole - Coal Measures - Skelmathorpe Data Type: Point Name: TECHNIFLEECE LTD</p> <p>Annual Volume (m³): 131000 Max Daily Volume (m³): 545 Original Application No: 5539 Original Start Date: 27/9/1977 Expiry Date: - Issue No: 103 Version Start Date: 13/3/2006 Version End Date:</p>
Not shown	1721	SW	423200 409300	<p>Status: Historical Licence No: 2/27/08/005 Details: General Farming & Domestic Direct Source: Groundwaters Point: Well X2 - Coal Measures - Denby Dale Data Type: Point Name: D M & J SHAW</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 02642 Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 25/1/1985 Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1721	SW	423200 409300	Status: Historical Licence No: 2/27/08/005 Details: General Farming & Domestic Direct Source: Groundwaters Point: Well X2 Data Type: Point Name: SHAW Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 2642 Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 25/1/1985 Version End Date:
Not shown	1777	N	424530 412120	Status: Historical Licence No: 2/27/08/104 Details: General Farming & Domestic Direct Source: Groundwaters Point: Borehole Data Type: Point Name: SAVILE ESTATE Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 6131 Original Start Date: 17/6/1988 Expiry Date: - Issue No: 100 Version Start Date: 17/6/1988 Version End Date:
Not shown	1777	N	424530 412120	Status: Historical Licence No: 2/27/08/104 Details: General Farming & Domestic Direct Source: Groundwaters Point: Borehole - Coal Measures - Emley Data Type: Point Name: SAVILE TRUST (1965) Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 06131 Original Start Date: 17/6/1988 Expiry Date: - Issue No: 100 Version Start Date: 17/6/1988 Version End Date:

6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

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	1019	NW	423660 410740	Status: Historical Licence No: 2/27/13/174 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Groundwaters Point: Borehole Data Type: Point Name: SIMMONDS Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 6654 Original Start Date: 23/12/1994 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:

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/High Leaching Potential	H3	Coarse textured or moderately shallow soils which readily transmit non-adsorbed pollutants and liquid discharges but have some ability to attenuate adsorbed pollutants because of their clay or organic matter content.
0	On Site	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.
350	SE	Minor Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.
350	SE	Minor Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.
472	W	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.

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	1279	NE	425499 411339	River Name: Dearne Reach: Hinchcliffe's Park Gate Dyke End/Start of Stretch: End of Stretch NGR	D	D	D	B	B

6.9.2 Chemical Quality:

Database searched and no data found.

6.10 Detailed River Network

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

Yes

The following Detailed River Network records are represented on the Hydrology Map (6e):

ID	Distance (m)	Direction	Details
1	182	SE	River Name: River Dearne Welsh River Name: - Alternative Name: - River Type: Secondary River Main River Status: Currently Undefined
2	287	N	River Name: - Welsh River Name: - Alternative Name: - River Type: Culvert Main River Status: Currently Undefined
3	287	N	River Name: - Welsh River Name: - Alternative Name: - River Type: Tertiary River Main River Status: Currently Undefined
4	288	N	River Name: - Welsh River Name: - Alternative Name: - River Type: Tertiary River Main River Status: Currently Undefined
5	304	S	River Name: - Welsh River Name: - Alternative Name: - River Type: Lake/Reservoir Main River Status: Currently Undefined
6	304	S	River Name: - Welsh River Name: - Alternative Name: - River Type: Secondary River Main River Status: Currently Undefined
7	305	S	River Name: River Dearne Welsh River Name: - Alternative Name: - River Type: Secondary River Main River Status: Currently Undefined
8	305	S	River Name: - Welsh River Name: - Alternative Name: - River Type: Culvert Main River Status: Currently Undefined
9	367	S	River Name: - Welsh River Name: - Alternative Name: - River Type: Culvert Main River Status: Currently Undefined
10	405	S	River Name: - Welsh River Name: - Alternative Name: - River Type: Secondary River Main River Status: Currently Undefined
11A	447	SW	River Name: - Welsh River Name: - Alternative Name: - River Type: Secondary River Main River Status: Currently Undefined
12A	456	SW	River Name: - Welsh River Name: - Alternative Name: - River Type: Secondary River Main River Status: Currently Undefined
13A	456	SW	River Name: - Welsh River Name: - Alternative Name: - River Type: Secondary River Main River Status: Currently Undefined
14A	460	SW	River Name: River Dearne Welsh River Name: - Alternative Name: - River Type: Secondary River Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
15	470	SW	River Name: River Dearne Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined

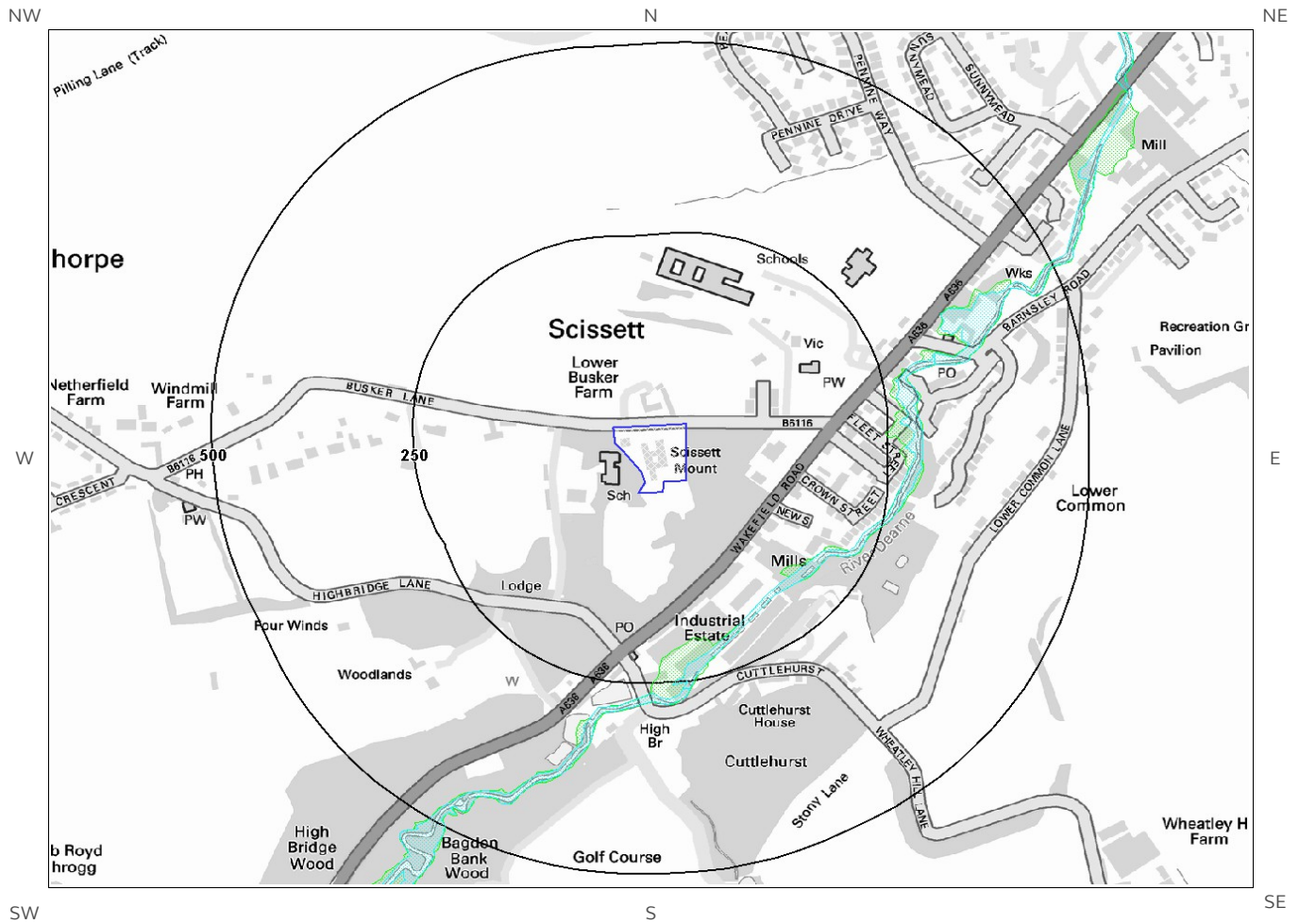
6.11 Surface Water Features

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

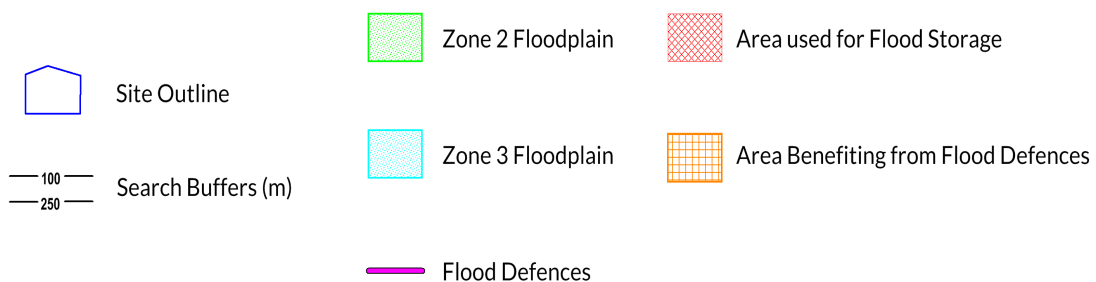
The following surface water records are not represented on mapping:

Distance (m)	Direction
191	SE
243	S

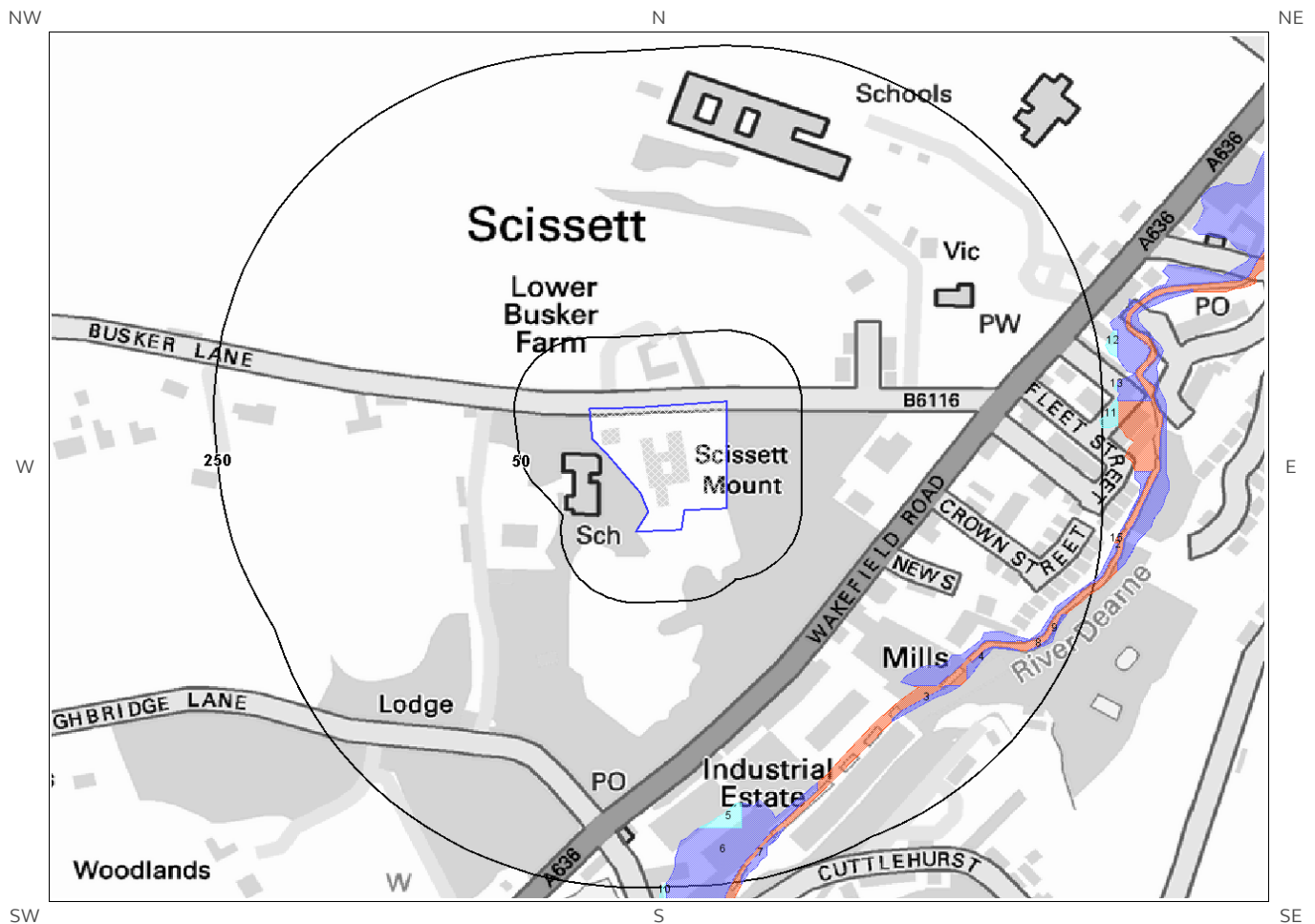
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



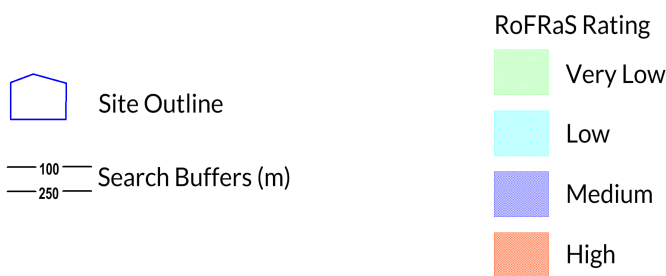
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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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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? Yes

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:

ID	Distance (m)	Direction	Update	Type
1	167	SE	09-Sep-2016	Zone 2 - (Fluvial/Tidal Models)

7.2 River and Coastal Zone 3 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 3 floodplain? Yes

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.

ID	Distance (m)	Direction	Update	Type
1	177	SE	09-Sep-2016	Zone 3 - (Fluvial Models)

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.

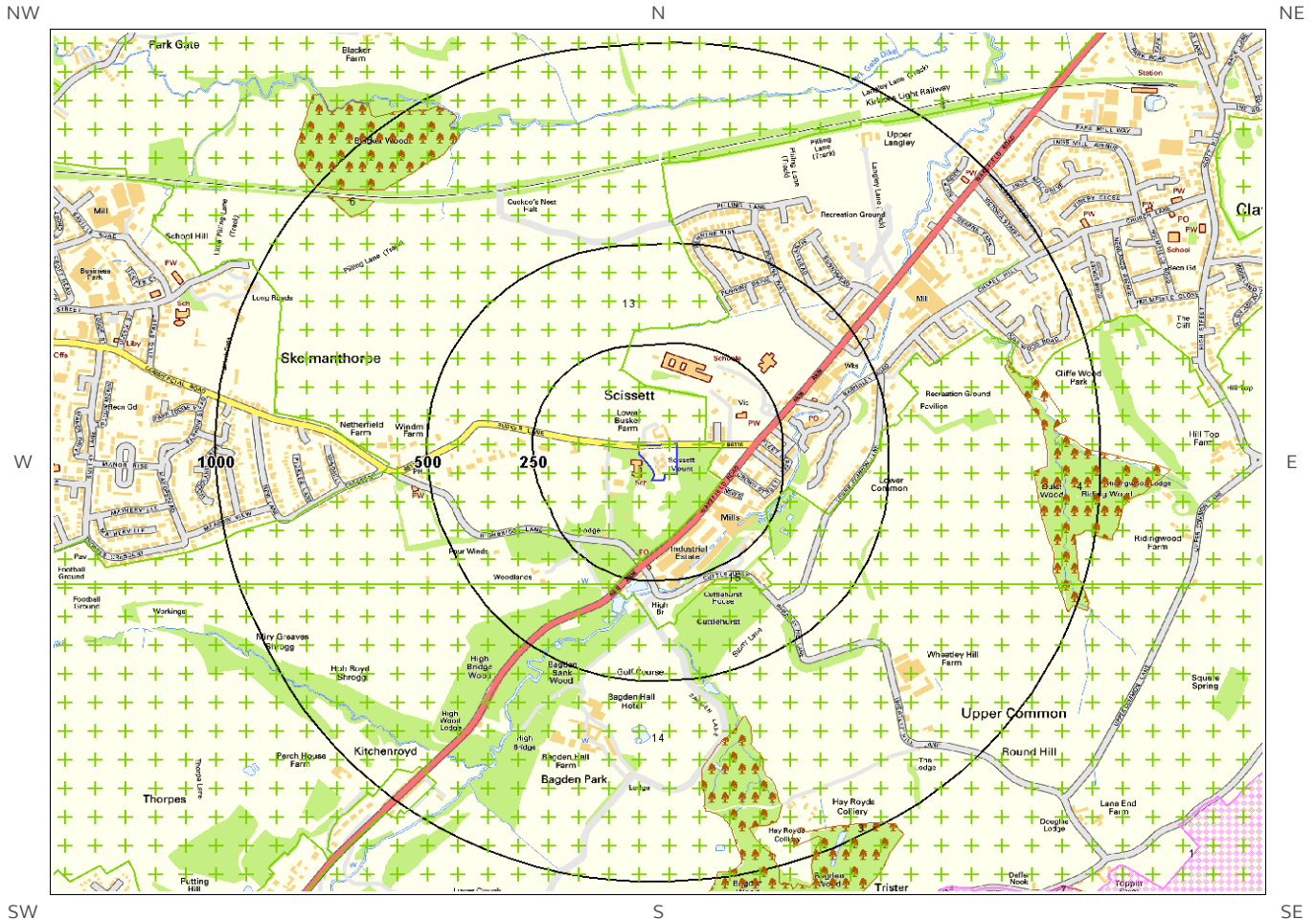
7.8 Groundwater Flooding Confidence Areas

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

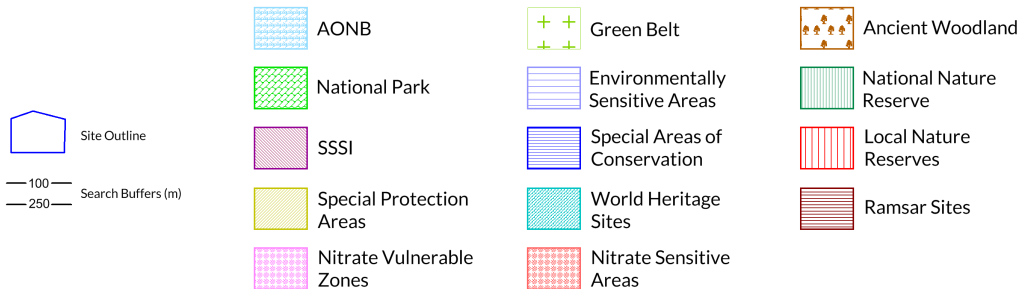
Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

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



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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:

0

Database searched and no data found.

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:

0

Database searched and no data found.

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:

10

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
3	618	S	UNKNOWN	Ancient Replanted Woodland
4	798	E	UNKNOWN	Ancient and Semi-Natural Woodland
5	861	NW	UNKNOWN	Ancient and Semi-Natural Woodland
6	873	NW	UNKNOWN	Ancient and Semi-Natural Woodland
7	1349	SE	UNKNOWN	Ancient Replanted Woodland
Not shown	1441	NW	UNKNOWN	Ancient Replanted Woodland
Not shown	1726	E	UNKNOWN	Ancient Replanted Woodland
Not shown	1927	E	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1939	SW	UNKNOWN	Ancient Replanted Woodland
Not shown	1958	S	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:

0

Database searched and no data found.

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

0

Database searched and no data found.

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:

2

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
1	1209	SE	Existing	DEFRA
Not shown	1602	E	Existing	DEFRA

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

5

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ID	Distance	Direction	Green Belt Name	Local Authority Name
13	0	On Site	Liverpool, Manchester and West Yorks Greenbelt	Kirklees District (B)
14	271	S	Liverpool, Manchester and West Yorks Greenbelt	Kirklees District (B)
15	276	SE	Liverpool, Manchester and West Yorks Greenbelt	Kirklees District (B)
Not shown	1770	E	Liverpool, Manchester and West Yorks Greenbelt	Barnsley District (B)



Not
shown

1772

E

Liverpool, Manchester and West Yorks
Greenbelt

Barnsley District (B)

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? Very Low

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

Hazard
Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

9.1.2 Landslides

What is the maximum Landslide* 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
Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property no significant increase in insurance risk due to natural slope instability problems.

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? Negligible

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

Hazard

No indicators for running sand identified. 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?

Yes

The following coal mining information provided by the Coal Authority is not represented on Mapping:

Distance (m)	Direction	Details
0	On Site	The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848.

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
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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: Kirklees Council
Phone: 01484 221 000
Web: <http://www.kirklees.gov.uk/>
Address: Civic Centre 3, Market Street, Huddersfield, HD1 1WG

Gemapping PLC

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



Public Health
England



The Coal
Authority



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