Appendices

Appendix A: Groundsure Report
Appendix B: Coal Authority Mining Report
Appendix C: Risk Definitions

Appendix A

Groundsure Report

MLM Consulting Engineers Limited

7200, BEACH DRIVE,
CAMBRIDGE, CB25 9TL

Groundsure Reference:	GS-2356366
Your Reference:	773135
Report Date	20 Aug 2015
Report Delivery Method:	Email - pdf

Groundsure Enviroinsight

Address: Ruabon Park A483, WREXHAM, LL14 6DW

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviroinsight** 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,

[redacted]

Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

Groundsure Enviroinsight

Address:	**Ruabon Park A483, WREXHAM, LL14 6DW**
Date:	**20 Aug 2015**
Reference:	**GS-2356366**
Client:	**MLM Consulting Engineers Limited**

NW N NE



W E

SW S SE

Aerial Photograph Capture date:	27-Mar-2012
Grid Reference:	329736,343226
Site Size:	24.62ha

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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	5	18	66	69
1.2 Additional Information – Historical Tank Database	0	0	10	5
1.3 Additional Information – Historical Energy Features Database	0	0	6	31
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	3
1.6 Potentially Infilled Land	12	13	50	55

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	1	4
2.1.9 Records of Water Industry Referrals	0	0	0	1
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 Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	1	0	4	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	1000-5000
3.1 Landfill Sites						
3.1.1 Environment Agency Registered Landfill Sites	0	0	0	0	2	Not searched
3.1.2 Environment Agency Historic Landfill Sites	0	0	0	0	3	5
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	3	6
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	4	0	Not searched	Not searched
3.2.2 Environment Agency Licensed Waste Sites	0	0	0	8	0	14

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	0	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?	No
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	0	1
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	0
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)	4	2	3	1	Not searched	Not searched

	On-site	0-50m	51-250	251-500	501-1000	1000-1500

Section 6: Hydrogeology and Hydrology	0-500m					
6.9 Is there any Environment Agency information on river quality within 1500m of the study site?	No	No	No	Yes	No	Yes
6.10 Detailed River Network entries within 500m of the site	1	2	11	10	Not searched	Not searched
6.11 Surface water features within 250m of the study site	Yes	Yes	Yes	Not searched	Not searched	Not searched

Section 7: Flooding	
7.1 Are there any Enviroment Agency Zone 2 floodplains within 250m of the study site?	No
7.2 Are there any Environment Agency 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?	Potential at Surface
7.8 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	High

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	1	3
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	1	2
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	1	2	9	25	43	84
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	1	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	1

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
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	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?	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?	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 in a Radon Affected Area, as between 10 and 30% 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?	Full 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?	Yes
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”.

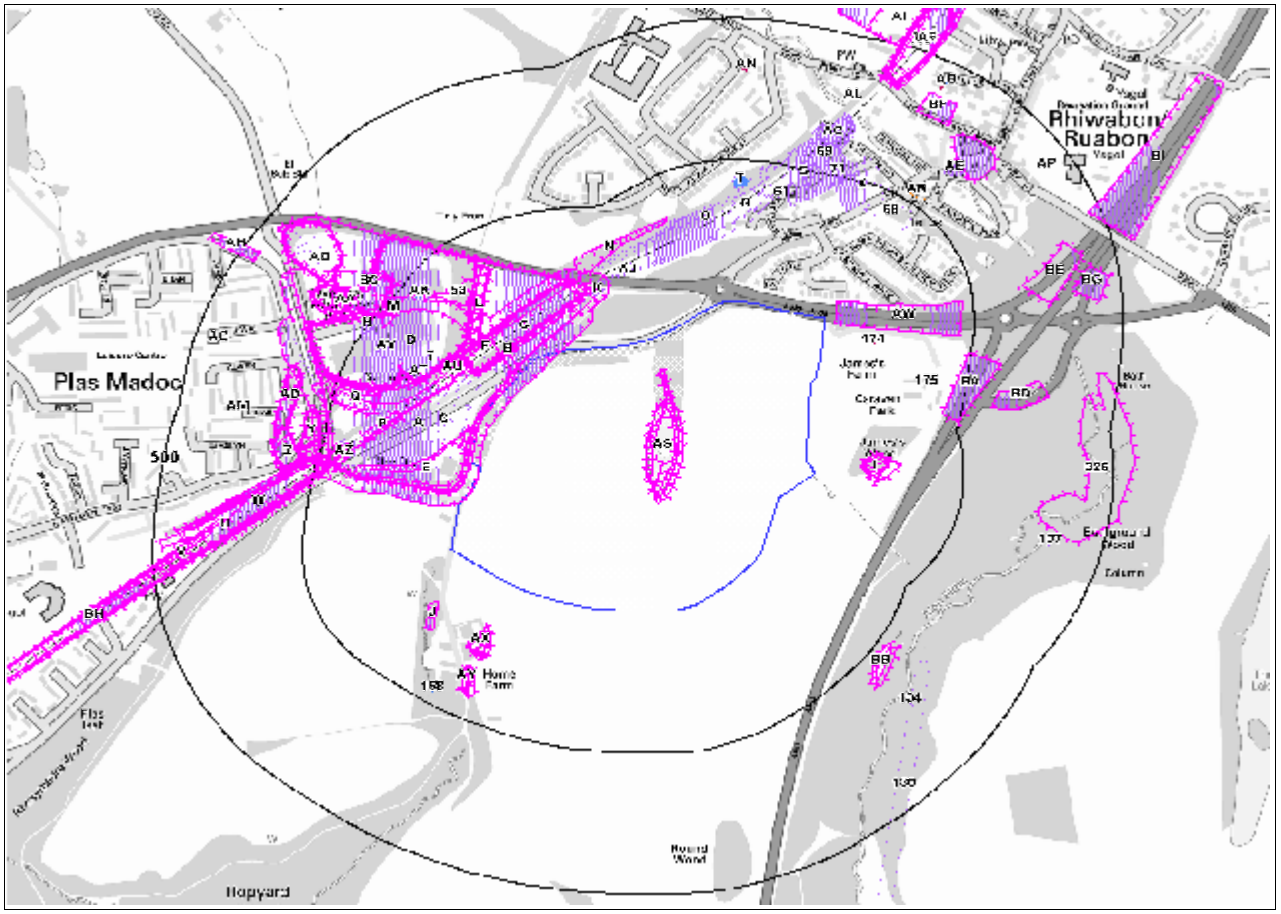
All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Historical Land Use

NW N NE

W E

SW S SE



Mapping sourced from Ordnance Survey

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Site Outline

250
500
Search Buffers (m)

Historical 1:10,000 and 1:10,560 scale mapping

Industrial Land Use

Potentially Infilled Land

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

Energy Features

Petrol Stations

Tanks

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: 158

ID	Distance [m]	Direction	Use	Date
1F	0	On Site	Railway Sidings	1898
2C	0	On Site	Unspecified Disused Mine	1960
3A	0	On Site	Colliery	1873
4A	0	On Site	Railway Sidings	1873
5AT	0	On Site	Colliery	1898
6B	4	NW	Railway Sidings	1938
7	5	NW	Colliery	1949
8B	5	NW	Railway Sidings	1949
9	5	NW	Railway Sidings	1910
10C	5	NW	Colliery	1910
11D	6	NW	Colliery	1938
12D	6	NW	Colliery	1938
13E	8	W	Unspecified Ground Workings	1910
14E	10	W	Unspecified Heap	1960
15AW	18	E	Cuttings	1993
16G	31	NW	Cuttings	1873
17F	36	NW	Cuttings	1898
18G	37	NW	Cuttings	1949
19G	39	NW	Cuttings	1910
20G	39	NW	Cuttings	1938
21G	41	NW	Cuttings	1960
22AU	41	NW	Railway Sidings	1960
23H	44	W	Tramway Sidings	1938
24H	57	W	Tramway Sidings	1910
25I	82	E	Gravel Pit	1949
26I	83	E	Gravel Pit	1949
27I	83	E	Gravel Pit	1910
28I	86	E	Gravel Pit	1938
29I	86	E	Unspecified Pit	1968
30I	86	E	Unspecified Pit	1993
31J	88	SW	Unspecified Pit	1974
32J	88	SW	Unspecified Pit	1994
33J	88	SW	Unspecified Pit	1985
34M	90	NW	Unspecified Ground Workings	1910
35K	90	N	Smithy	1949

36K	90	N	Smithy	1898
37L	91	NW	Unspecified Heap	1949
38K	92	N	Smithy	1910
39K	93	N	Smithy	1938
40L	93	NW	Unspecified Heap	1960
41K	94	N	Smithy	1960
42M	101	NW	Unspecified Heap	1938
43M	101	NW	Unspecified Heap	1938
44M	101	NW	Unspecified Heap	1949
45M	104	NW	Refuse Heap	1960
46AV	106	NW	Unspecified Heap	1898
47R	111	NW	Railway Sidings	1910
48O	112	NW	Railway Sidings	1960
49P	128	W	Cuttings	1873
50N	132	N	Unspecified Ground Workings	1994
51N	132	N	Unspecified Ground Workings	1974
52N	132	N	Unspecified Ground Workings	1985
53	142	NW	Unspecified Old Quarry	1898
54O	144	NW	Railway Sidings	1910
55Q	173	W	Cuttings	1949
56P	175	W	Railway Building	1960
57Q	177	W	Cuttings	1974
58Q	177	W	Cuttings	1985
59S	178	N	Unspecified Commercial/Industrial	1898
60R	190	N	Railway Building	1960
61	191	N	Railway Building	1910
62X	191	N	Telephone Exchange	1938
63S	194	N	Railway Sidings	1873
64AZ	196	W	Cuttings	1873
65T	198	N	Unspecified Tank	1994
66T	198	N	Unspecified Tank	1974
67T	198	N	Unspecified Tank	1985
68	200	NE	Telephone Exchange	1993
69	212	N	Railway Sidings	1949
70AK	215	NW	Unspecified Tank	1994
71	220	N	Unspecified Depot	1993
72BA	220	E	Cuttings	1993
73U	226	W	Cuttings	1873
74W	230	W	Cuttings	1898
75V	233	W	Cuttings	1910
76U	233	W	Cuttings	1949
77V	233	W	Cuttings	1938
78W	234	W	Cuttings	1960
79S	238	N	Railway Building	1873
80S	239	N	Railway Building	1949

81X	240	NE	Telephone Exchange	1949
82W	242	W	Cuttings	1974
83W	242	W	Cuttings	1985
84W	242	W	Cuttings	1994
85S	243	N	Railway Building	1910
86S	244	N	Railway Building	1938
87S	245	N	Railway Building	1949
88S	245	N	Railway Building	1968
89S	248	N	Railway Building	1960
90Y	252	NW	Unspecified Heap	1938
91Y	252	NW	Unspecified Heap	1938
92Y	256	NW	Unspecified Heap	1910
93Y	257	NW	Unspecified Heap	1949
94Y	258	W	Unspecified Heap	1960
95AC	264	N	Railway Station	1910
96Z	269	W	Unspecified Old Quarry	1898
97Z	276	W	Unspecified Old Quarry	1938
98Z	277	W	Unspecified Old Quarry	1949
99Z	278	W	Unspecified Old Quarry	1910
100Z	279	W	Unspecified Old Quarry	1960
101AA	280	NW	Unspecified Heap	1873
102AA	287	NW	Unspecified Heap	1898
103AB	291	NW	Unspecified Heaps	1938
104AB	291	NW	Unspecified Heaps	1938
105BC	291	NW	Old Coal Shaft	1938
106AB	292	NW	Unspecified Heap	1949
107AC	292	N	Railway Station	1949
108AA	293	NW	Unspecified Heap	1960
109AA	294	NW	Old Coal Shaft	1938
110AC	295	N	Railway Station	1898
111AA	295	NW	Unspecified Old Shaft	1960
112BD	298	E	Cuttings	1993
113AC	298	N	Railway Station	1873
114AA	298	NW	Unspecified Shaft	1873
115AC	299	N	Railway Station	1949
116AC	301	N	Railway Station	1968
117AC	302	N	Railway Station	1938
118AD	305	W	Unspecified Heap	1938
119AD	305	W	Unspecified Heap	1938
120AD	305	W	Unspecified Heap	1910
121AD	305	W	Unspecified Heap	1949
122AC	306	N	Railway Station	1993
123AA	306	NW	Old Coal Shaft	1949
124AA	308	NW	Old Coal Shaft	1938
125AD	309	W	Unspecified Heap	1960
126AA	313	NW	Old Coal Shaft	1910
127AA	314	NW	Old Coal Shaft	1938
128AA	315	NW	Unspecified Old Shaft	1960

129AE	324	NE	Police Station	1873
130	325	SE	Rifle Range	1873
131BE	335	E	Cuttings	1993
132AB	345	NW	Unspecified Ground Workings	1960
133AE	345	NE	Grave Yard	1873
134	351	SE	Targets	1910
135AL	387	N	Gasometer	1873
136BF	397	NE	Grave Yard	1873
137	406	E	Water Wheel	1909
138BG	416	E	Cuttings	1993
139AF	422	N	Cuttings	1873
140	425	N	Railway Sidings	1949
141AG	425	N	Cuttings	1949
142AF	430	N	Cuttings	1949
143AG	430	N	Cuttings	1949
144AF	431	N	Cuttings	1910
145AF	432	N	Cuttings	1938
146AF	436	N	Cuttings	1993
147AF	436	N	Cuttings	1968
148AF	437	N	Railway Sidings	1910
149BH	448	W	Cuttings	1960
150AF	455	N	Cuttings	1898
151AH	471	NW	Railway Sidings	1898
152AH	471	NW	Cuttings	1873
153AH	471	NW	Railway Sidings	1949
154BI	479	NE	Cuttings	1993
155AH	484	NW	Railway Sidings	1910
156AI	498	N	Cemetery	1873
157AI	498	N	Cemetery	1898
158AI	499	N	Cemetery	1949

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: 15

ID	Distance (m)	Direction	Use	Date
159AJ	122	NW	Unspecified Tank	1899
160AJ	122	NW	Unspecified Tank	1912
161AJ	127	NW	Unspecified Tank	1961
162T	199	N	Unspecified Tank	1967
163T	199	N	Unspecified Tank	1971
164AK	215	NW	Unspecified Tank	1989

165AK	217	NW	Unspecified Tank	1994
166AK	218	NW	Unspecified Tank	1989
167AK	218	NW	Unspecified Tank	1991
168	223	SW	Unspecified Tank	1960
169AE	345	NE	Unspecified Tank	1960
170AE	345	NE	Unspecified Tank	1960
171AE	345	NE	Unspecified Tank	1960
172AL	389	N	Gasometer	1873
173AO	461	NE	Unspecified Tank	1912

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: 37

ID	Distance (m)	Direction	Use	Date
174	83	E	Electricity Substation	1992
175	177	E	Electricity Substation	1992
176AK	223	NW	Electricity Substation	1994
177AK	224	NW	Electricity Substation	1991
178AK	237	NW	Electricity Substation	1989
179AK	240	NW	Electricity Substation	1991
180AL	389	N	Gasometer	1873
181AM	400	W	Electricity Substation	1971
182AM	400	W	Electricity Substation	1991
183AM	400	W	Electricity Substation	1989
184AM	400	W	Electricity Substation	1989
185AM	400	W	Electricity Substation	1994
186AM	401	W	Electricity Substation	1989
187AN	408	N	Electricity Substation	1994
188AN	409	N	Electricity Substation	1989
189AN	409	N	Electricity Substation	1971
190AN	409	N	Electricity Substation	1991
191AN	409	N	Electricity Substation	1989
192AN	411	N	Electricity Substation	1967
193AO	448	NE	Electricity Substation	1992
194AO	448	NE	Electricity Substation	1992
195AO	448	NE	Electricity Substation	1989
196AO	448	NE	Electricity Substation	1995
197AO	448	NE	Electricity Substation	1995
198AO	449	NE	Electricity Substation	1960
199AO	449	NE	Electricity Substation	1960
200AP	453	NE	Electricity Substation	1992
201AP	453	NE	Electricity Substation	1992
202AP	453	NE	Electricity Substation	1989

203AP	456	NE	Electricity Substation	1960
204AP	456	NE	Electricity Substation	1960
205AQ	460	W	Electricity Substation	1991
206AQ	460	W	Electricity Substation	1989
207AQ	460	W	Electricity Substation	1989
208AQ	460	W	Electricity Substation	1989
209AQ	460	W	Electricity Substation	1994
210AQ	460	W	Electricity Substation	1971

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: 3

ID	Distance (m)	Direction	Use	Date
211AR	261	NE	Garage	1960
212AR	261	NE	Garage	1960
213AR	261	NE	Garage	1960

1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 130

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

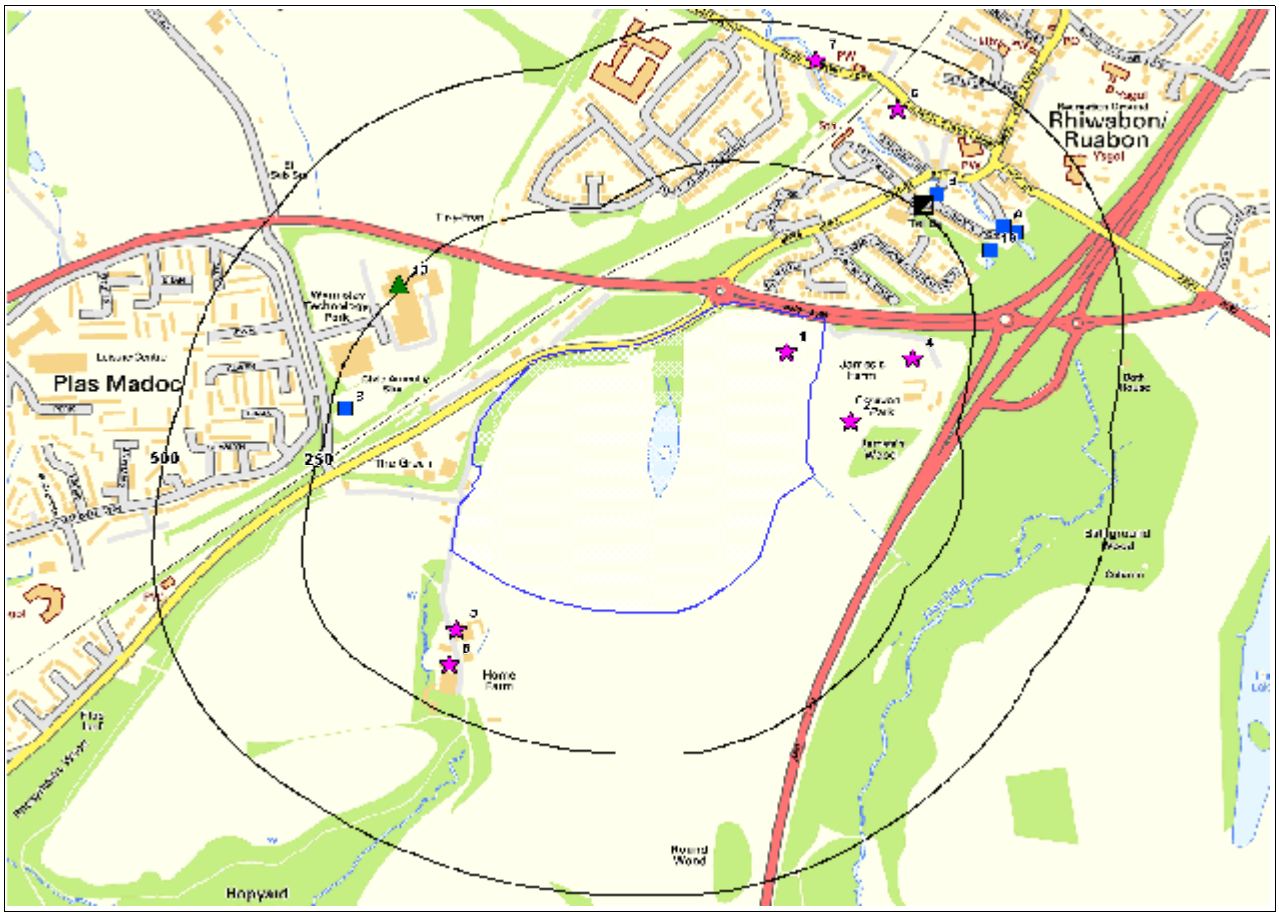
ID	Distance(m)	Direction	Use	Date
214C	0	On Site	Unspecified Disused Mine	1960
215AS	0	On Site	Pond	1938
216AS	0	On Site	Pond	1898
217AS	0	On Site	Pond	1873
218AS	0	On Site	Pond	1985
219AS	0	On Site	Pond	1994
220AS	0	On Site	Pond	1974
221A	0	On Site	Colliery	1873
222AS	0	On Site	Pond	1910

223AS	0	On Site	Water Body	1960
224AS	0	On Site	Pond	1949
225AT	0	On Site	Colliery	1898
226AU	5	NW	Colliery	1949
227C	5	NW	Colliery	1910
228AV	6	NW	Colliery	1938
229AV	6	NW	Colliery	1938
230E	8	W	Unspecified Ground Workings	1910
231E	10	W	Unspecified Heap	1960
232AW	18	E	Cuttings	1993
233G	31	NW	Cuttings	1873
234F	36	NW	Cuttings	1898
235G	37	NW	Cuttings	1949
236G	39	NW	Cuttings	1910
237G	39	NW	Cuttings	1938
238G	41	NW	Cuttings	1960
239AX	82	SW	Ponds	1960
240I	82	E	Gravel Pit	1949
241AX	83	SW	Ponds	1938
242I	83	E	Gravel Pit	1949
243I	83	E	Gravel Pit	1910
244AX	85	SW	Pond	1910
245I	86	E	Gravel Pit	1938
246I	86	E	Unspecified Pit	1993
247I	86	E	Unspecified Pit	1968
248J	88	SW	Unspecified Pit	1985
249J	88	SW	Unspecified Pit	1994
250J	88	SW	Unspecified Pit	1974
251M	90	NW	Unspecified Ground Workings	1910
252L	91	NW	Unspecified Heap	1949
253L	93	NW	Unspecified Heap	1960
254AX	97	SW	Pond	1873
255AX	97	SW	Pond	1898
256AX	100	SW	Pond	1949
257M	101	NW	Unspecified Heap	1938
258M	101	NW	Unspecified Heap	1938
259M	101	NW	Unspecified Heap	1949
260M	104	NW	Refuse Heap	1960
261AV	106	NW	Unspecified Heap	1898
262P	128	W	Cuttings	1873
263N	132	N	Unspecified Ground Workings	1985
264N	132	N	Unspecified Ground Workings	1994
265N	132	N	Unspecified Ground Workings	1974
266L	142	NW	Unspecified Old Quarry	1898
267AY	160	SW	Pond	1960

268AY	160	SW	Pond	1985
269AY	160	SW	Pond	1974
270AY	161	SW	Pond	1938
271AY	161	SW	Pond	1910
272AY	162	SW	Pond	1949
273AY	162	SW	Pond	1873
274AY	162	SW	Pond	1898
275Q	173	W	Cuttings	1949
276Q	177	W	Cuttings	1985
277Q	177	W	Cuttings	1974
278AZ	196	W	Cuttings	1873
279BA	220	E	Cuttings	1993
280U	226	W	Cuttings	1873
281W	230	W	Cuttings	1898
282V	233	W	Cuttings	1910
283U	233	W	Cuttings	1949
284V	233	W	Cuttings	1938
285W	234	W	Cuttings	1960
286W	242	W	Cuttings	1974
287W	242	W	Cuttings	1985
288W	242	W	Cuttings	1994
289Y	252	NW	Unspecified Heap	1938
290Y	252	NW	Unspecified Heap	1938
291Y	256	NW	Unspecified Heap	1910
292Y	257	NW	Unspecified Heap	1949
293Y	258	W	Unspecified Heap	1960
294BB	263	SE	Pond	1898
295Z	269	W	Unspecified Old Quarry	1898
296BB	273	SE	Pond	1873
297Z	276	W	Unspecified Old Quarry	1938
298Z	277	W	Unspecified Old Quarry	1949
299Z	278	W	Unspecified Old Quarry	1910
300Z	279	W	Unspecified Old Quarry	1960
301AA	280	NW	Unspecified Heap	1873
302BC	286	NW	Air Shaft	1898
303AA	287	NW	Unspecified Heap	1898
304AB	291	NW	Unspecified Heaps	1938
305AB	291	NW	Unspecified Heaps	1938
306BC	291	NW	Old Coal Shaft	1938
307AB	292	NW	Unspecified Heap	1949
308AA	293	NW	Unspecified Heap	1960
309BC	294	NW	Old Coal Shaft	1938
310BC	295	NW	Unspecified Old Shaft	1960
311BD	298	E	Cuttings	1993
312AA	298	NW	Unspecified Shaft	1873
313AD	305	W	Unspecified Heap	1938
314AD	305	W	Unspecified Heap	1938
315AD	305	W	Unspecified Heap	1910

316AD	305	W	Unspecified Heap	1949
317AA	306	NW	Old Coal Shaft	1949
318AA	308	NW	Old Coal Shaft	1938
319AD	309	W	Unspecified Heap	1960
320BC	313	NW	Old Coal Shaft	1910
321BC	314	NW	Old Coal Shaft	1938
322BC	315	NW	Unspecified Old Shaft	1960
323BE	335	E	Cuttings	1993
324AB	345	NW	Unspecified Ground Workings	1960
325AE	345	NE	Grave Yard	1873
326	380	E	Pond	1873
327BF	397	NE	Grave Yard	1873
328BG	416	E	Cuttings	1993
329AF	422	N	Cuttings	1873
330AG	425	N	Cuttings	1949
331AF	430	N	Cuttings	1949
332AF	430	N	Cuttings	1949
333AF	431	N	Cuttings	1910
334AF	432	N	Cuttings	1938
335AF	436	N	Cuttings	1993
336AF	436	N	Cuttings	1968
337BH	448	W	Cuttings	1960
338AF	455	N	Cuttings	1898
339AH	471	NW	Cuttings	1873
340BI	479	NE	Cuttings	1993
341AI	498	N	Cemetery	1898
342AI	498	N	Cemetery	1873
343AI	499	N	Cemetery	1949

2. Environmental Permits, Incidents and Registers Map



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- Site Outline
- Search Buffers (m) 250 500
- Recorded Pollution Incicent
- Dangerous Substances (List 1)
- Dangerous Substances (List 2)
- Water Industry Referrals
- Licenced Discharge Consents
- Red List Discharge Consents
- RAS 3 & 4 Authorisations
- Part A(1) Authorised Processes and Historic IPC Authorisations
- Part A(2) and Part B Authorised Processes
- COMAH / NIHHS Sites
- 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 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	
13	257	NW	329320 343558	Address: Rolinx Performance Coatings, Wynnstay Technology Park, Ruabon, Wrexham, LL14 6EN Process: Coating Process Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified. Date of Enforcement: No Enforcement Notified. Comment: No Enforcement 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:

5

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
8	226	W	329230 343340	Address: RUABON MANNED CONTAINER SITE WYNNST, RUABON MANNED CONTAINER SITE WYN, MANNED CONTAINER SITE WYNNSTAY B, WYNNSTAY BANKS, UNKNOWN, UNKNOWN Effluent Type: UNSPECIFIED Permit Number: CM0151401 Permit Version: 1	Receiving Water: Status: CONSENT EXPIRED - TIME LIMIT Issue date: 06/04/1987 Effective Date: 06-Apr-1987 Revocation Date: 18/03/1993
9B	290	NE	330220 343720	Address: RUABON 5 DUKE STREET PRIVATE GARAGE, RUABON 5 DUKE STREET PRIVATE GAR, 5 DUKE STREET PRIVATE GARAGE, PRIVATE GARAGE, UNKNOWN, UNKNOWN Effluent Type: UNSPECIFIED Permit Number: CM0033401 Permit Version: 1	Receiving Water: Status: CONSENT EXPIRED - TIME LIMIT Issue date: 20/04/1966 Effective Date: 20-Apr-1966 Revocation Date: 05/04/1995
10	302	NE	330310 343620	Address: PADDOCK ROW RUABON ,, PADDOCK ROW RUABON ,, RUABON ,, RUABON ,, , Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CG0358201 Permit Version: 1	Receiving Water: Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 21/07/1994 Effective Date: 21-Jul-1994 Revocation Date: -

ID	Distance (m)	Direction	NGR	Details	
11A	340	NE	330331 343663	Address: TAL Y LAN CSO, RUABON PS (SE OF BRIDGE STREET), (SE OF BRIDGE STREET) RUABON, RUABON, RUABON, RUABON Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: CM0008201 Permit Version: 1	Receiving Water: Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 08/01/1960 Effective Date: 08-Jan-1960 Revocation Date: -
12A	354	NE	330353 343652	Address: RUABON PS, RUABON PS, UNKNOWN, UNKNOWN, UNKNOWN, LL14 1US Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: CM0190801 Permit Version: 3	Receiving Water: Status: VARIED UNDER EPR 2010 Issue date: 19/12/2011 Effective Date: 19-Dec-2011 Revocation Date: -

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

1

The following Water Industry Referral records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	Address	Permission reference	Local Authority	First Date Received	Last Date Received	Status
15B	261	NE	SUPASTRIP LTD, PROVIDENCE CHAPEL, BRIDGE STREET, RUABON, RUABON, LL14 6DA	AU5688	WREXHAM COUNTY BOROUGH COUNCIL	01-Jun-2001	01-Apr-2015	RECEIVED

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 Recorded Pollution Incidents

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

7

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	0	On Site	329968 343441	Incident Date: 11-Sep-2006 Incident Identification: 434517 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Ammonia/Amine Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
2	69	E	330076 343319	Incident Date: 15-Aug-2012 Incident Identification: 1026336 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
3	112	SW	329416 342950	Incident Date: 10-Oct-2002 Incident Identification: 113978 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4	153	E	330180 343429	Incident Date: 11-May-2013 Incident Identification: 1111914 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
5	171	SW	329405 342888	Incident Date: 09-Sep-2001 Incident Identification: 29747 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Blood and Offal	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
6	392	N	330155 343871	Incident Date: 19-Aug-2003 Incident Identification: 183455 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
7	444	N	330017 343956	Incident Date: 05-Oct-2001 Incident Identification: 34948 Pollutant: Oils and Fuel Pollutant Description: Petrol	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

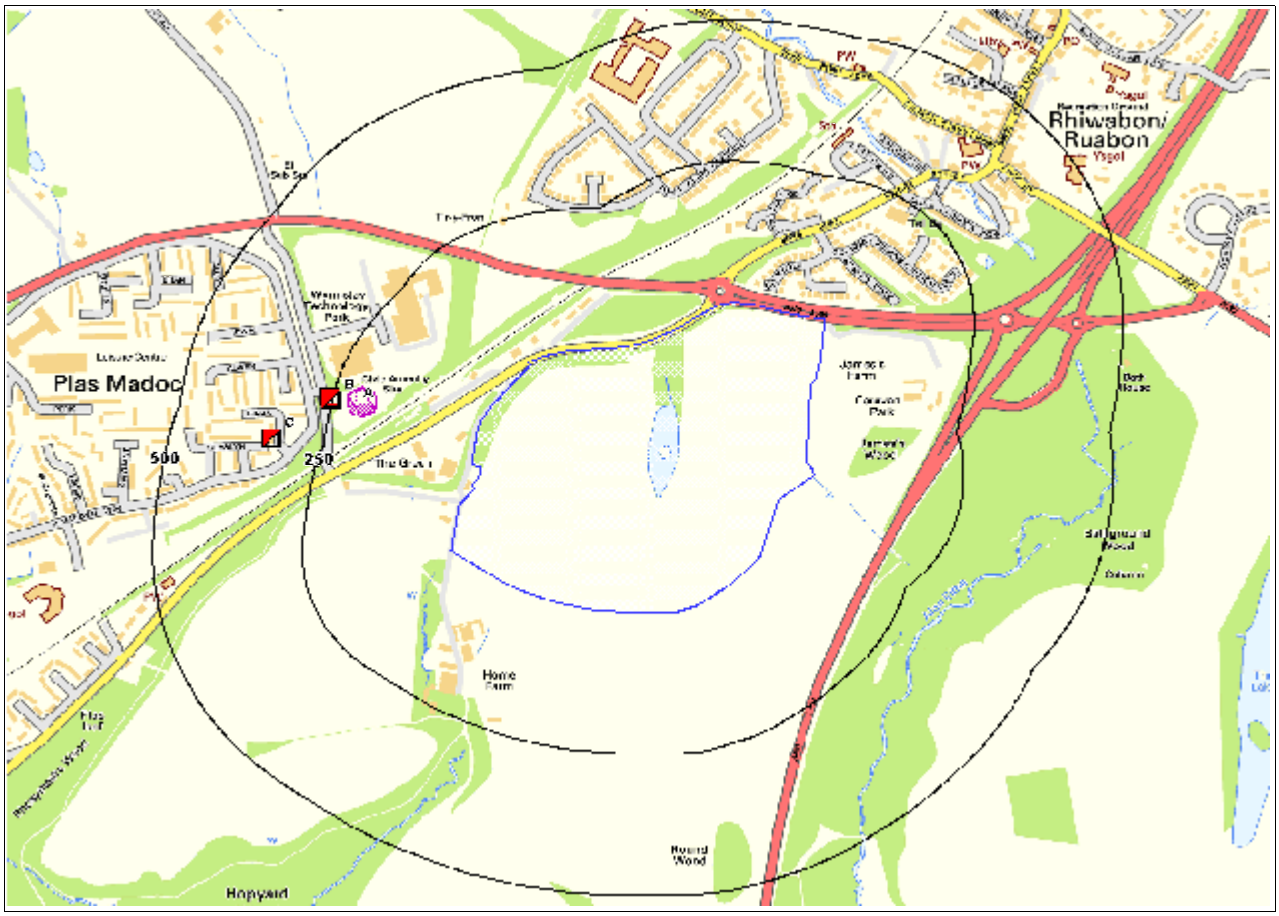
Database searched and no data found.

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
250
500
E.A. Active Landfill
E.A. Historic Landfill
BGS / DoE Survey Landfill
Historic and Planned Waste Sites
E.A. Licensed Waste Site
Local Authority/Historical Mapping Landfill Records

3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency landfill data within 1000m of the study site:

2

The following Environment Agency landfill records are represented as polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
Not shown	681	N	330077 344722	Address: Tatham Road, Ruabon, Wrexham, Clwyd, LL14 6RF Landfill Reference: 37109.0 Environmental Permitting Regulations (Waste) Reference: SHA001 Landfill Type: A4 : Household, Commercial & Industrial Waste Landfill	Operator: Shanks Northern Ltd Status: Closure IPPC Reference: EPR Reference:
Not shown	764	N	330087 344716	Address: Gardden, Tatham Road, Ruabon, Wrexham, Clwyd, LL14 6RF Landfill Reference: 37014.0 Environmental Permitting Regulations (Waste) Reference: SHA005 Landfill Type: A4 : Household, Commercial & Industrial Waste Landfill	Operator: Shanks Midlands Ltd Status: Closure IPPC Reference: EPR Reference:

3.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site:

8

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	
Not shown	694	N	329800 344200	Site Address: Llys Offa, Tatham Road, Wrexham, Ruarbon Waste Licence: Yes Site Reference: WMBC L/29 Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 02-Jun-1983 Licence Surrendered: 02-Jun-1984 Licence Hold Address: - Operator: - First Recorded: 02-Jun-1983 Last Recorded: 02-Jun-1984

ID	Distance (m)	Direction	NGR	Details	
Not shown	743	N	330100 344500	Site Address: Gardden Clay Pit, Gardden Lodge, Tatham Road, Ruabon, Wrexham, Clywd Waste Licence: Yes Site Reference: WMBC L/23, WMBC L82 Waste Type: Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 01-Apr-1977 Licence Surrendered: Licence Hold Address: A8 Edinburgh Road, Coatbridge, Lanarkshire Operator: - First Recorded: 31-Dec-1977 Last Recorded: 31-Aug-1984
Not shown	915	W	328400 343100	Site Address: Woodwards Rock, Plas Madoc Waste Licence: Yes Site Reference: - Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Hold Address: - Operator: - First Recorded: 01-Jan-1968 Last Recorded: 31-Dec-1978
Not shown	1284	W	327700 344000	Site Address: The Delph, Acrefair, Wrexham, Clwyd Waste Licence: Yes Site Reference: WMBC L/32 Waste Type: Inert, Industrial, Household, Special Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 05-Aug-1981 Licence Surrendered: 31-Dec-1986 Licence Hold Address: - Operator: - First Recorded: 30-Nov-1981 Last Recorded: 31-Dec-1986
Not shown	1333	W	328100 342500	Site Address: Rhosmedre Quarry, Rhosmedre Waste Licence: Yes Site Reference: L17 Waste Type: Industrial, Household Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 31-Dec-1977 Licence Surrendered: 30-Apr-1994 Licence Hold Address: - Operator: - First Recorded: - Last Recorded: -
Not shown	1348	W	327900 343200	Site Address: Air Products Social Club, Acrefair, Wrexham, Clwyd Waste Licence: - Site Reference: - Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Hold Address: - Operator: - First Recorded: 31-Dec-1950 Last Recorded: 31-Dec-1960
Not shown	1409	SW	328100 342200	Site Address: Druids United FC, Plas Kynaston Lane, Wrexham, Cefn Mawr Waste Licence: Yes Site Reference: WMBC L/42 Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 28-Jul-1983 Licence Surrendered: 31-Oct-1983 Licence Hold Address: - Operator: - First Recorded: 01-Mar-1983 Last Recorded: 31-Oct-1983
Not shown	1460	W	327900 343000	Site Address: Air Products, Llangollen Road, Wrexham, Acrefair Waste Licence: Yes Site Reference: WMBC L/8, WMBC L/58 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 01-Sep-1977 Licence Surrendered: 30-Apr-1993 Licence Hold Address: - Operator: - First Recorded: 01-Sep-1977 Last Recorded: 31-Dec-1991

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:

9

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

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
Not shown	914	W	328408 343092	Refuse Tip	1967 mapping	Polygon
Not shown	914	W	328436 343135	Refuse Tip	1961 mapping	Polygon
Not shown	914	W	328417 343136	Refuse Tip	1971 mapping	Polygon
Not shown	1363	SW	328143 342542	Refuse Tips	1960 mapping	Polygon
Not shown	1363	SW	328143 342542	Refuse Tips	1960 mapping	Polygon
Not shown	1396	SW	328125 342535	Refuse Tips	1960 mapping	Polygon
Not shown	1396	SW	328125 342535	Refuse Tips	1960 mapping	Polygon
Not shown	1411	W	328092 342547	Refuse Tips	1960 mapping	Polygon
Not shown	1411	W	328092 342547	Refuse Tips	1960 mapping	Polygon

3.2 Other Waste Sites

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

4

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		
3A	173	W	329259 343351	Type of Site: Tyre Recycling Plant (Conversion) Site Address: 2 & 3, Wynnstay Technlogy Park, Ruabon, WREXHAM, Clwyd, LL14 6	Planning Application Reference: P/2008/0483 Date: -	Further Details: Scheme comprises change of use from industrial premises to used tyre recycling plant. An application (ref: P/2008/0483) for detailed planning permission was granted by Wrexham B.C. Planning decision obtained Data Source: Historic Planning Application Data Type: Point
4A	174	W	329258 343351	Type of Site: Amenity Site Site Address: N/A	Planning Application Reference: N/A Date: 1989	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon

ID	Distance (m)	Direction	NGR	Details		
5A	174	W	329258 343351	Type of Site: Amenity Site Site Address: N/A	Planning Application Reference: N/A Date: 1989	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
6A	174	W	329258 343351	Type of Site: Amenity Site Site Address: N/A	Planning Application Reference: N/A Date: 1991	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon

3.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site:

22

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	
15B	252	W	329206 343357	Site Address: Off Plas Bennion Road, Wynnstay Bank Ruabon, Wrexham, Clwyd, LL14 1TP Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 3CW010 EPR reference: - Operator: 3 C Waste Ltd Waste Management licence No: 37039 Annual Tonnage: 0.0	Issue Date: 01/10/1993 Effective Date: 13/11/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Wynnstay Banks Civic Amenity Site Correspondence Address: -, Barton House, Darland Lane, Lavister, Wrexham, LL12 0EL
16B	252	W	329206 343357	Site Address: Off Plas Bennion Road, Wynnstay Bank Ruabon, Wrexham, Clwyd, LL14 1TP Type: Special Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 3CW010 EPR reference: - Operator: 3 C Waste Ltd Waste Management licence No: 37039 Annual Tonnage: 0.0	Issue Date: 01/10/1993 Effective Date: 13/11/2001 Modified: 10/12/2003 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Wynnstay Banks Civic Amenity Site Correspondence Address: Chris Giffiths, Barton House, Darland Lane, Lavister, Wrexham, LL12 0EL
17B	252	W	329206 343357	Site Address: Off Plas Bennion Road, Wynnstay Bank Ruabon, Wrexham, Clwyd, LL14 3ES Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 3CW010 EPR reference: EA/EPR/MP3394FY/V004 Operator: 3 C Waste Ltd Waste Management licence No: 37039 Annual Tonnage: 0.0	Issue Date: 01/10/1993 Effective Date: 13/11/2001 Modified: 28/02/2007 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Wynnstay Banks Civic Amenity Site Correspondence Address: -, -

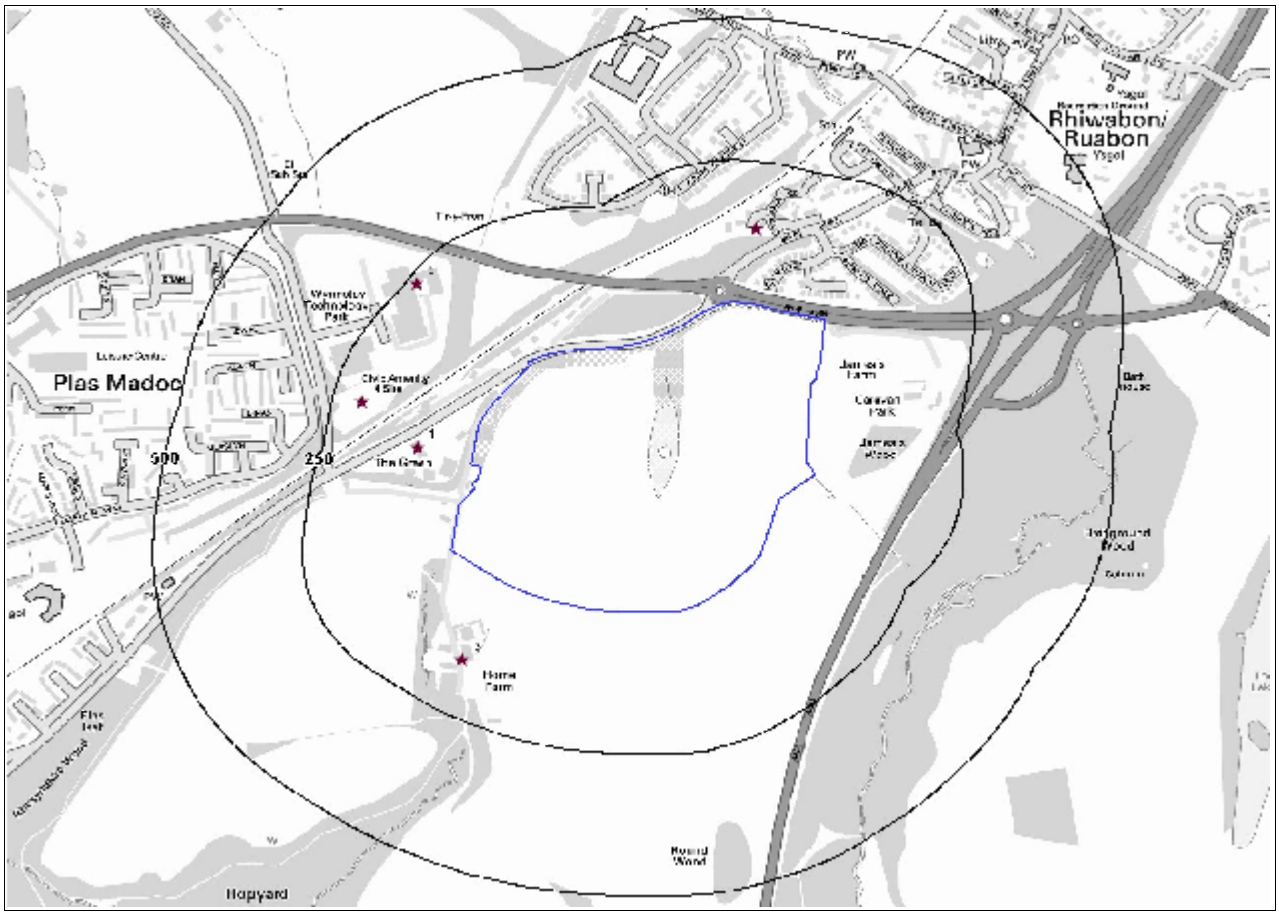
ID	Distance (m)	Direction	NGR	Details	
18B	252	W	329206 343357	Site Address: Off Plas Bennion Road, Wynnstay Bank Ruabon, Wrexham, Clwyd, LL14 3ES Type: Household Waste Amenity Site Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: 3CW010 EPR reference: MP3394FY/V004 Operator: 3 C Waste Ltd Waste Management licence No: 37039 Annual Tonnage: 0.0	Issue Date: 01/10/1993 Effective Date: 13/11/2001 Modified: 28/02/2007 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked Site Name: Wynnstay Banks Civic Amenity Site Correspondence Address: -, -
19B	254	W	329205 343361	Site Address: Plas Madoc H W R C, Wynnstay Industrial Estate, Acrefair, Wrexham, Clwyd, LL14 1TP Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS025 EPR reference: EA/EPR/NP3095EW/V002 Operator: F C C Recycling (U K) Limited Waste Management licence No: 100081 Annual Tonnage: 24999.0	Issue Date: 23/10/2007 Effective Date: - Modified: 22/11/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Plas Madoc Household Waste Recycling Centre Correspondence Address: -, -
20B	254	W	329205 343361	Site Address: Plas Madoc H W R C, Wynnstay Industrial Estate, Acrefair, Wrexham, Clwyd, LL14 1TP Type: Household Waste Amenity Site Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WAS025 EPR reference: NP3095EW/V002 Operator: F C C Recycling (U K) Limited Waste Management licence No: 100081 Annual Tonnage: 0.0	Issue Date: 23/10/2007 Effective Date: - Modified: 22/11/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Plas Madoc Household Waste Recycling Centre Correspondence Address: -, -
21C	336	W	329107 343288	Site Address: Land/ Premises At, Acrefair, Plas Madoc, Wrexham, Clwyd, LL14 3ES Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS025 EPR reference: EA/EPR/NP3095EW/A001 Operator: Waste Recycling Ltd Waste Management licence No: 100081 Annual Tonnage: 24999.0	Issue Date: 23/10/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Plas Madoc Household Waste Recycling Centre Correspondence Address: -, -
22C	336	W	329107 343288	Site Address: Acrefair, Plas Madoc, Wrexham, Clwyd, LL14 3ES Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS025 EPR reference: - Operator: Waste Recycling Limited Waste Management licence No: 100081 Annual Tonnage: 0.0	Issue Date: 23/10/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Plas Madoc Household Waste Recycling Centre Correspondence Address: -, Bold Business Centre, Bold Lane, Sutton, St Helens, Merseyside, WA9 4TX
Not shown	1204	N	330083 344716	Site Address: Tatham Road, Ruabon, Wrexham, LL14 6DR Type: Household, Commercial & Industrial Waste Landfill Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA001 EPR reference: - Operator: Shanks Northern Ltd Waste Management licence No: 37109 Annual Tonnage: 0.0	Issue Date: 06/07/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure Site Name: Gardden Claypit 2 Northern Correspondence Address: -, Unit 9, Abbey Lane Industrial Estate, Burscough, Ormskirk, Merseyside, L40 7SR

ID	Distance (m)	Direction	NGR	Details	
Not shown	1204	N	330087 344716	Site Address: Gardden, Tatham Road, Ruabon, Wrexham, Clwyd, LL14 6RF Type: Household, Commercial & Industrial Waste Landfill Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA005 EPR reference: BP3494FC/A001 Operator: Shanks Midlands Ltd Waste Management licence No: 37014 Annual Tonnage: 400.0	Issue Date: 02/05/1989 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure Site Name: Gardden Claypit 1 Midlands Correspondence Address: -, -
Not shown	1209	N	330077 344722	Site Address: Tatham Road, Ruabon, Wrexham, Clwyd, LL14 6RF Type: Household, Commercial & Industrial Waste Landfill Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA001 EPR reference: EA/EPR/HP3694FJ/A001 Operator: Shanks Northern Ltd Waste Management licence No: 37109 Annual Tonnage: 51712.0	Issue Date: 06/07/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure Site Name: Gardden Claypit 2 Northern Correspondence Address: -, -
Not shown	1209	N	330077 344722	Site Address: Tatham Road, Ruabon, Wrexham, Clwyd, LL14 6RF Type: Household, Commercial & Industrial Waste Landfill Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA001 EPR reference: HP3694FJ/A001 Operator: Shanks Northern Ltd Waste Management licence No: 37109 Annual Tonnage: 51712.0	Issue Date: 06/07/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure Site Name: Gardden Claypit 2 Northern Correspondence Address: -, -
Not shown	1209	N	330087 344721	Site Address: Tatham Road, Ruabon, Wrexham, LL14 6DR Type: Household, Commercial & Industrial Waste Landfill Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA005 EPR reference: - Operator: Shanks Midlands Ltd Waste Management licence No: 37014 Annual Tonnage: 0.0	Issue Date: 02/05/1989 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure Site Name: Gardden Claypit 1 Midlands Correspondence Address: -, Woodside House, Church Road, Woburn Sands, Milton Keynes, MK17 8TA
Not shown	1428	N	330083 344942	Site Address: Land / Premises At, Gardden Ind Est, Ruabon, Wrexham, Clwyd, LL14 6RG Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BEN001 EPR reference: EA/EPR/VP3394FX/A001 Operator: Bennett D Waste Management licence No: 37163 Annual Tonnage: 30000.0	Issue Date: 31/03/1999 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: Clwyd Car Breakers Correspondence Address: -, -
Not shown	1428	N	330083 344942	Site Address: Land / Premises At, Gardden Ind Est, Ruabon, Wrexham, Clwyd, LL14 6RG Type: Metal Recycling Site (mixed MRS's) Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BEN001 EPR reference: VP3394FX/A001 Operator: Bennett D Waste Management licence No: 37163 Annual Tonnage: 30000.0	Issue Date: 31/03/1999 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: Clwyd Car Breakers Correspondence Address: -, -

ID	Distance (m)	Direction	NGR	Details	
Not shown	1439	N	330053 344957	Site Address: Gardden Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6RG Type: Vehicle depollution facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CLW002 EPR reference: EA/EPR/NP3290VM/A001 Operator: Clwyd Breakers Ltd Waste Management licence No: 102006 Annual Tonnage: 74999.0	Issue Date: 07/10/2010 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Clwyd Breakers Ltd Correspondence Address: -, -
Not shown	1439	N	330053 344957	Site Address: Gardden Industrial Estate, Ruabon, Wrexham, Clwyd, LL14 6RG Type: Vehicle depollution facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: CLW002 EPR reference: NP3290VM/A001 Operator: Clwyd Breakers Ltd Waste Management licence No: 102006 Annual Tonnage: 0.0	Issue Date: 07/10/2010 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Clwyd Breakers Ltd Correspondence Address: -, -
Not shown	1475	N	330082 344990	Site Address: I Hayward Ltd, Gardden Ind Est, Ruabon, Wrexham, Clwyd, LL14 6RG Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HAY001 EPR reference: EA/EPR/EP3794FY/V003 Operator: I Hayward Limited Waste Management licence No: 37162 Annual Tonnage: 24999.0	Issue Date: 31/03/1999 Effective Date: - Modified: 31/01/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: I Hayward Ltd Correspondence Address: -, -
Not shown	1475	N	330082 344990	Site Address: Gardden Ind Est, Ruabon, Wrexham, LL14 6RG Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HAY001 EPR reference: - Operator: Haywards I Waste Management licence No: 37162 Annual Tonnage: 0.0	Issue Date: 31/03/1999 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: I Haywards Ltd Correspondence Address: -, Gardden Ind Est, Ruabon, Wrexham, LL14 6RG
Not shown	1475	N	330082 344990	Site Address: I Hayward Ltd, Gardden Ind Est, Ruabon, Wrexham, Clwyd, LL14 6RG Type: Metal Recycling Site (mixed MRS's) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: HAY001 EPR reference: EP3794FY/V003 Operator: I Hayward Limited Waste Management licence No: 37162 Annual Tonnage: 0.0	Issue Date: 31/03/1999 Effective Date: - Modified: 31/01/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: I Hayward Ltd Correspondence Address: -, -
Not shown	1483	S	329188 341568	Site Address: Pen-y-bont Landfill, Newbridge Road, Chirk, Wrexham, LL14 3JE Type: Household, Commercial & Industrial Waste Landfill Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA004 EPR reference: EA/EPR/CP3094FU/V002 Operator: Shanks Midlands Ltd Waste Management licence No: 37123 Annual Tonnage: 214490.0	Issue Date: 23/12/1994 Effective Date: - Modified: 26/03/2002 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC Site Name: Pen-y-bont Landfill Correspondence Address: -, -

ID	Distance (m)	Direction	NGR	Details	
Not shown	1483	S	329188 341568	Site Address: Pen-y-bont Landfill, Newbridge Road, Chirk, Wrexham, LL14 3JE Type: Household, Commercial & Industrial Waste Landfill Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA004 EPR reference: CP3094FU/V002 Operator: Shanks Midlands Ltd Waste Management licence No: 37123 Annual Tonnage: 214490.0	Issue Date: 23/12/1994 Effective Date: - Modified: 26/03/2002 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC Site Name: Pen-y-bont Landfill Correspondence Address: -, -

4. Current Land Use Map



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Site Outline

Search Buffers (m)
250
500

Current Industrial Sites

Petrol & Fuel Sites

Electricity Transmission Cables

Gas Transmission Pipelines

4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 5

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

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	94	W	Clwyd Caravans & Leisure Ltd	329352 343272	The Green, Wynnstay Yard, Ruabon, Wrexham, LL14 6DP	Vehicle Hire and Rental	Hire Services
2	133	N	Electricity Sub Station	329918 343658	LL14	Electrical Features	Infrastructure and Facilities
3	153	SW	Hopper	329426 342897	LL14	Hoppers and Silos	Farming
4	201	W	Civic Amenity Site	329258 343353	LL14	Refuse Disposal Facilities	Infrastructure and Facilities
5	234	NW	Electricity Sub Station	329350 343561	LL14	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

Database searched and no data found.

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

5.2 Superficial Ground and Drift Geology

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

Lex Code	Description	Rock Type
TILLD	TILL, DEVENSIAN	DIAMICTON
GFDUD	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME]

5.3 Bedrock and Solid Geology

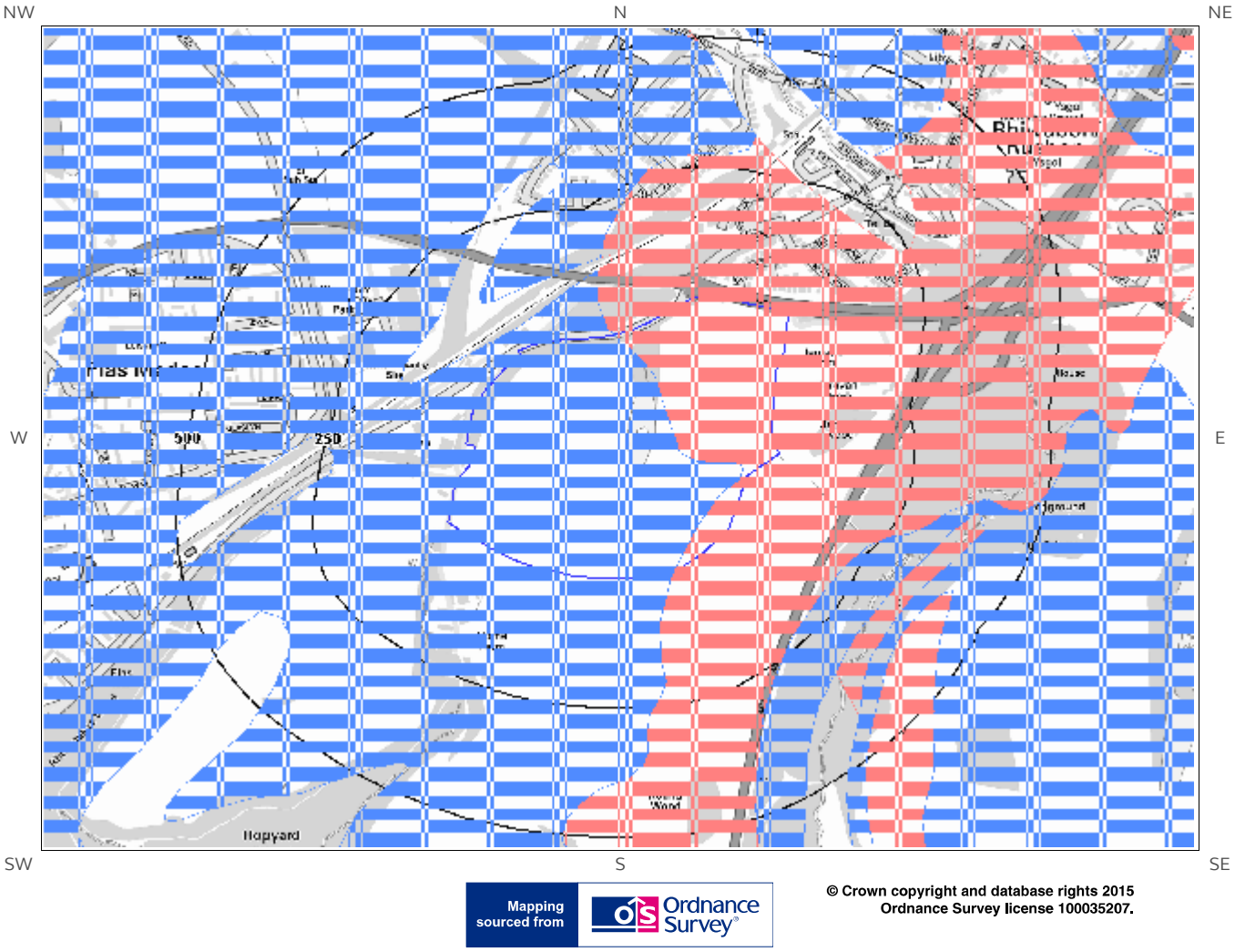
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
PLMC-MDSS	PENNINE LOWER COAL MEASURES FORMATION AND PENNINE MIDDLE COAL MEASURES FORMATION (UNDIFFERENTIATED)	MUDSTONE, SILTSTONE AND SANDSTONE
ETM-MDST	ETRURIA FORMATION	MUDSTONE

(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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Site Outline

250
500

Principal Aquifer

Secondary (A) Aquifer Permeable Layers

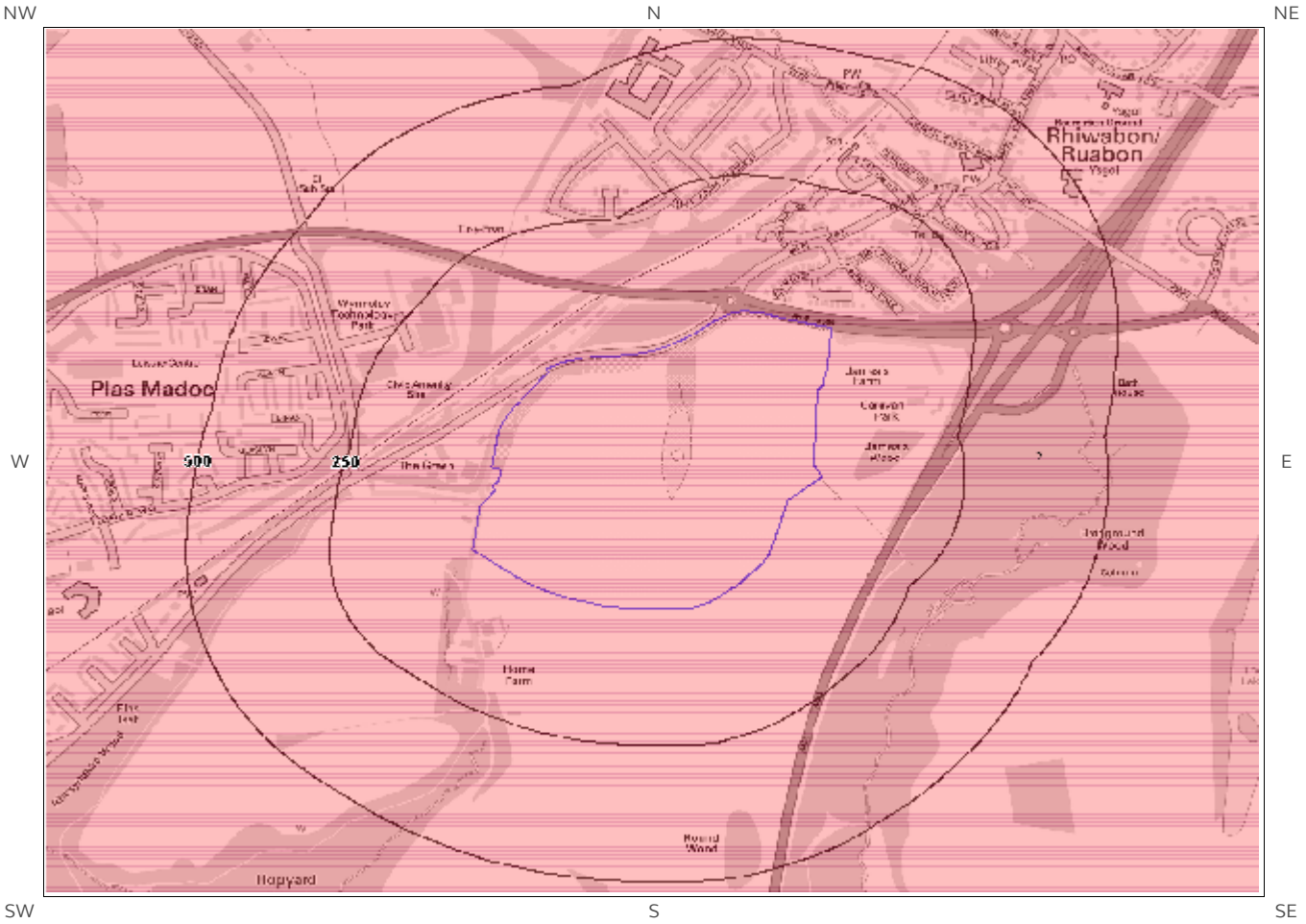
Secondary (B) Aquifer Lower Permeability Layers

Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

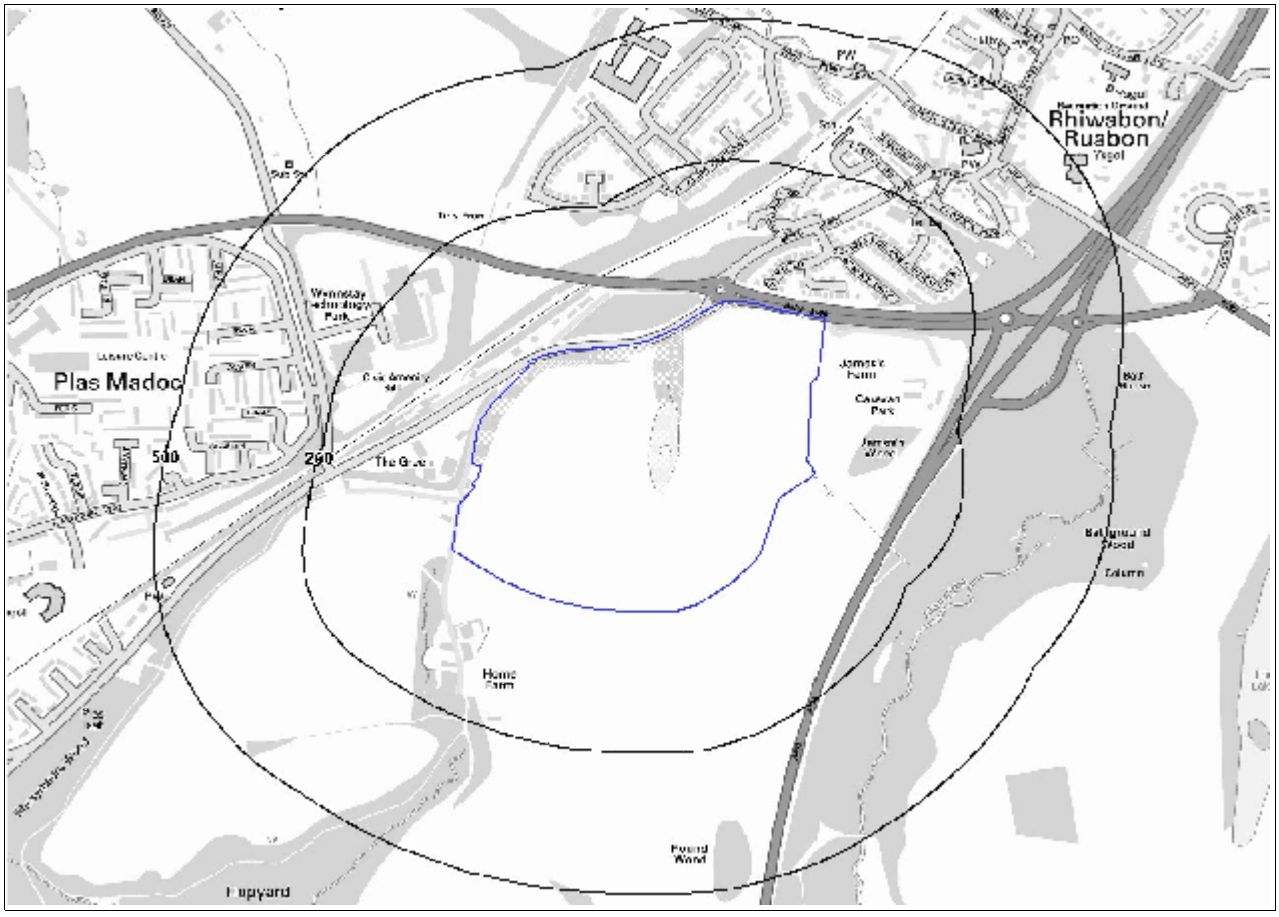
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



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Site Outline
250
500
Search Buffers (m)
Principal Aquifer
Secondary (A) Aquifer - Permeable Layers
Secondary (B) Aquifer - Lower Permeability Layers
Groundwater Abstraction Licence
Secondary Aquifer - Undifferentiated Layers
Unproductive
Unknown (lakes and landslip)
Surface Water Abstraction Licence

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



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Site Outline

250

500

Source Protection Zone 1 - Inner Catchment

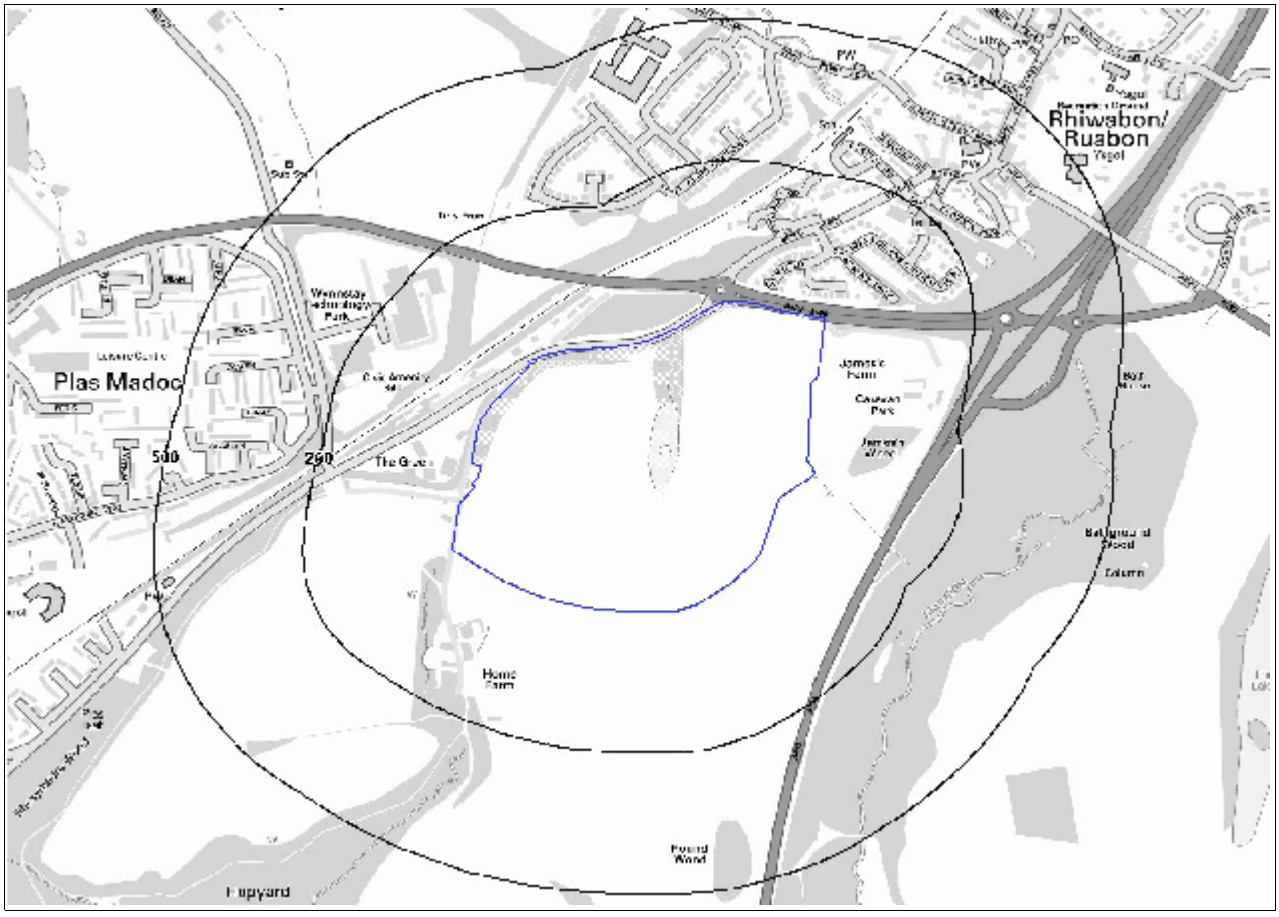
Source Protection Zone 2 - Outer Catchment

Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest

Potable Water Abstraction Licence

6d. Hydrogeology – Source Protection Zones within confined aquifer



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Source Protection Zone 1 - Inner Catchment

Source Protection Zone 2C - Outer Catchment within Confined Aquifer

Source Protection Zone 3C - Total Catchment within Confined Aquifer

Potable Water Abstraction Licence

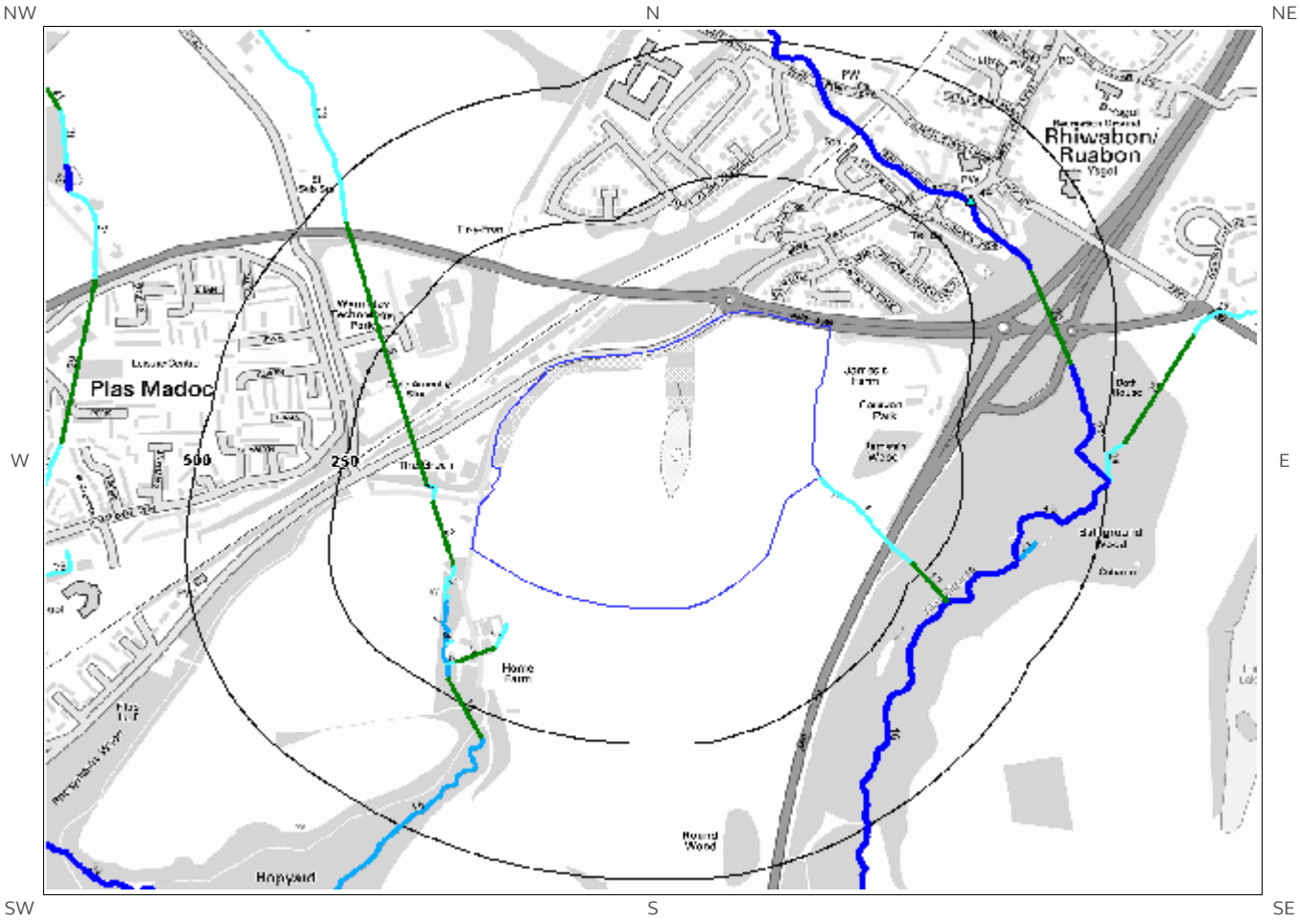
Site Outline

250

500

Search Buffers (m)

6e. Hydrology – Detailed River Network and River Quality



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Site Outline

250
500
Search Buffers (m)

Primary River
Secondary River
Tertiary River
Lake/Reservoir
Underground River (Inferred)
General Quality Assessment: Biology
General Quality Assessment: Chemistry

Canal
Canal Tunnel
Culvert
Multiple Channel Culvert
Underground River (Public Sewer)
Underground River (Local Knowledge)

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'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 Enviroinsight User Guide.

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

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	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
9	0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
10	213	SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
11	292	SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
3	310	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
4	377	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
12	473	N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	491	N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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'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 Enviroinsight 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	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

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	1992	NW	328100 344800	Status: Historical Licence No: 24/67/5/0046 Details: General Farming & Domestic Direct Source: Eaw Groundwater Point: 35 Ft Deep, 8ft Dia. Well Data Type: Point Name: Lloyd	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: N124 Original Start Date: 12/10/1973 Expiry Date: - Issue No: 100 Version Start Date: 12/10/1973 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? No

Database searched and no data found.

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 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/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.
0	On Site	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.
0	On Site	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.
0	On Site	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.
19	N	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.
43	NW	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.
59	NW	Minor Aquifer/Intermediate Leaching Potential	I1	Soils which can possibly transmit a wide range of pollutants.
151	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.
250	N	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.
313	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.

6.9 River Quality

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

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAHI). 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):

					Chemical Quality Grade				
ID	Distance (m)	Direction	NGR	River Quality Grade	2005	2006	2007	2008	2009
44	338	NE	330280 343730	River Name: Eitha Reach: Conf.r.dee W.park - Conf.trib.nr.penycae End/Start of Stretch: Sample Point NGR	A	A	A	A	-
Not shown	1451	SW	328730 341800	River Name: Dee Reach: Conf.bradley Bk.-conf.trefynant Bk. End/Start of Stretch: Sample Point NGR	A	A	A	A	-
Not shown	1451	SW	328730 341800	River Name: Dee Reach: Conf.cyflymen Bk.- Conf.eglwyseg End/Start of Stretch: Sample Point NGR	A	A	A	A	-
Not shown	1451	SW	328730 341800	River Name: Dee Reach: Conf.trefynant Bk.- Conf. Cyflymen Bk. End/Start of Stretch: Sample Point NGR	A	A	A	A	-
Not shown	1451	SW	328730 341800	River Name: Dee Reach: Conf.eglwyseg - Conf. Afon Morwynion End/Start of Stretch: Sample Point NGR	A	A	A	A	-

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	0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
2	40	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
3	45	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
4	82	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
5	84	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
6	100	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
7	103	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
8	132	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
9A	160	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
10A	170	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
11B	191	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
12B	201	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
13	222	SE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
14	222	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
15	295	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
16	299	SE	River Name: Afon Eitha Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
17	304	NE	River Name: Afon Eitha Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
18	321	SE	River Name: Afon Eitha Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
19	359	E	River Name: Afon Eitha Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
20	365	E	River Name: Afon Eitha Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
21	377	SE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
22	425	E	River Name: Afon Eitha Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
23	443	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
24	500	E	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined

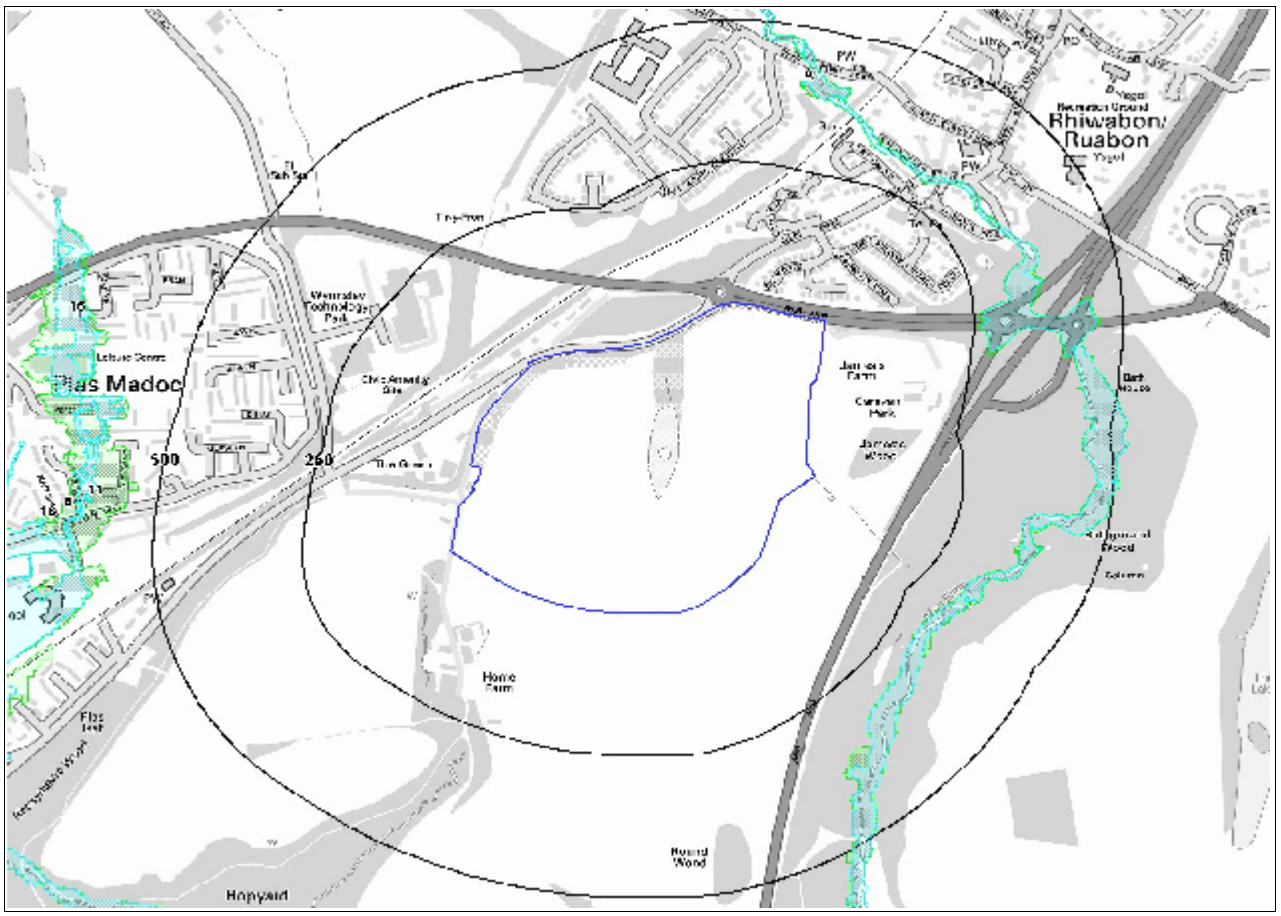
6.11 Surface Water Features

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
0	On Site
0	On Site
0	On Site
45	SW
63	SW
76	SE
83	NW
84	SW
130	SE
160	SW
180	SE
191	SW

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



Mapping sourced from Ordnance Survey

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Site Outline

Search Buffers (m)

Zone 2 Floodplain

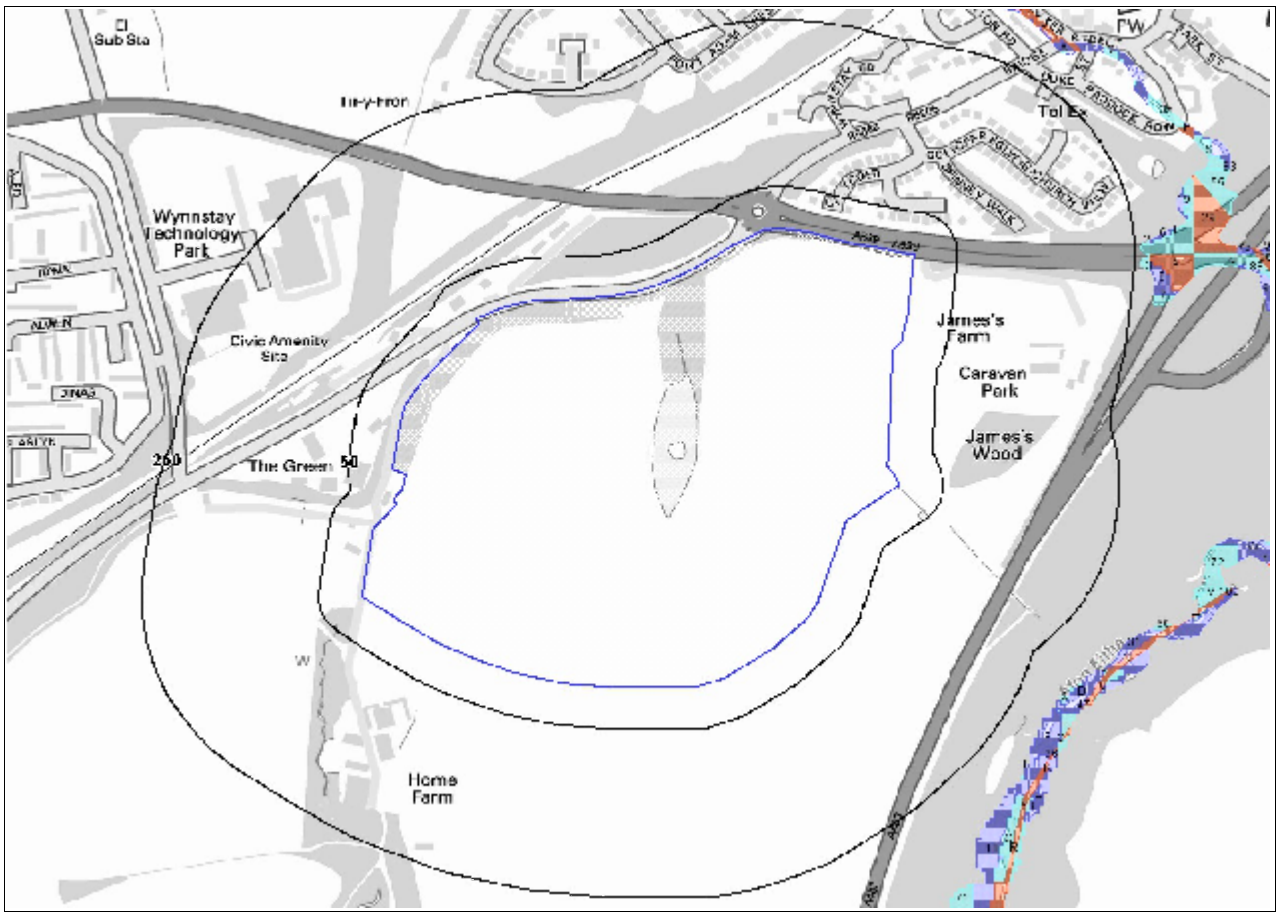
Zone 3 Floodplain

Flood Defences

Area used for Flood Storage

Area Benefiting from Flood Defences

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



Mapping sourced from Ordnance Survey

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Site Outline

100 250 Search Buffers (m)

RoFRaS Rating

- Very Low
- Low
- Medium
- High

7 Flooding

7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency Zone 2 floodplain? No

Environment Agency 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 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 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? Superficial Deposits 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?

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

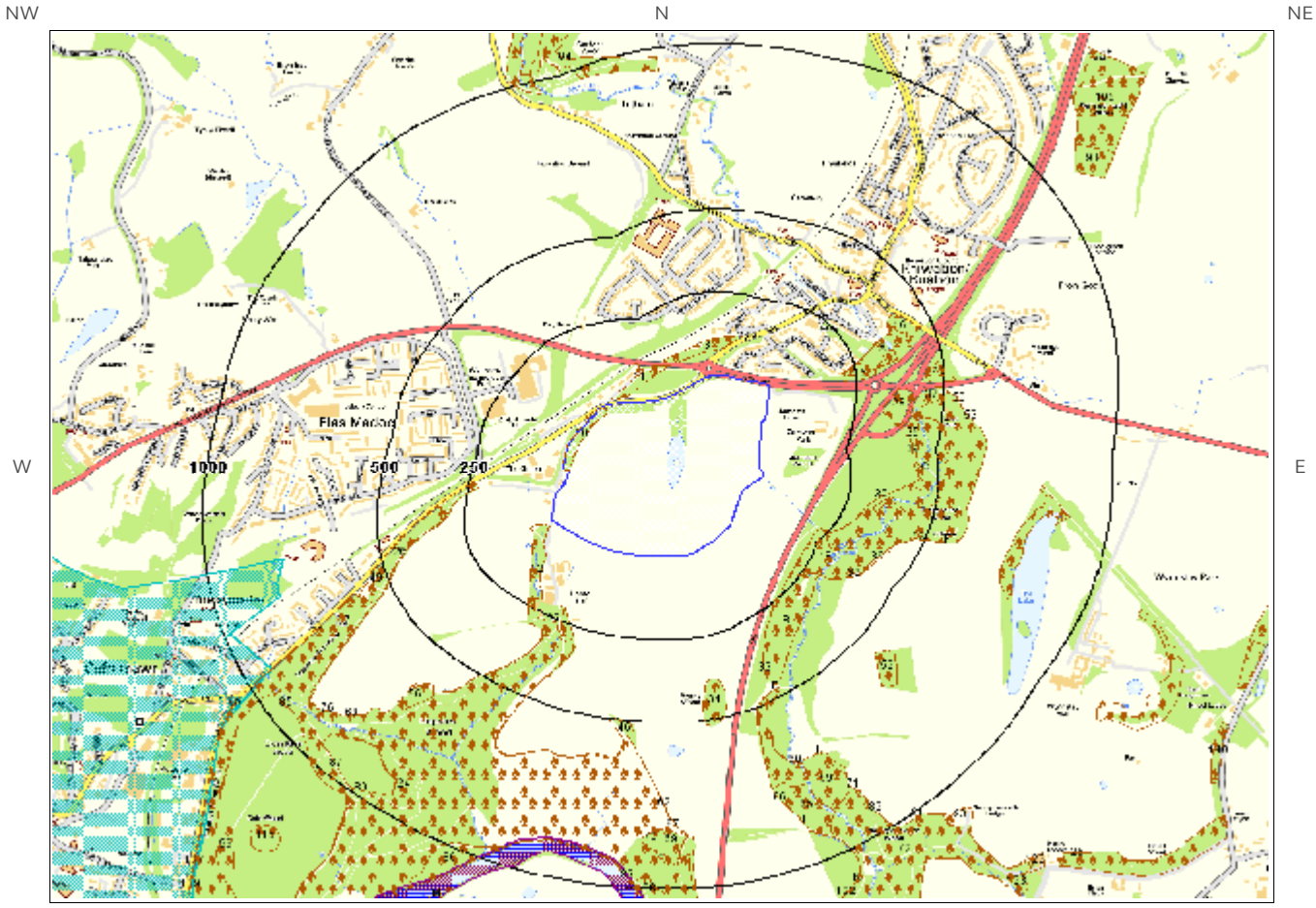
7.8 Groundwater Flooding Confidence Areas

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

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



Mapping sourced from Ordnance Survey

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AONB
National Park
SSSI
Special Protection Areas
Nitrate Vulnerable Zones
Green Belt
Environmentally Sensitive Areas
Special Areas of Conservation
World Heritage Sites
Nitrate Sensitive Areas
Ancient Woodland
National Nature Reserve
Local Nature Reserves
Ramsar Sites

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:

4

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
4	885	S	AFON DYFRDWY (RIVER DEE)	Natural Resources Wales
Not shown	1650	N	STRYT LAS A'R HAFOD	Natural Resources Wales
Not shown	1681	S	NANT-Y-BELAN AND PRYNELA WOODS	Natural Resources Wales
Not shown	1901	N	STRYT LAS A'R HAFOD	Natural Resources Wales

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:

3

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

ID	Distance (m)	Direction	SAC Name	Data Source
1	885	S	River Dee and Bala Lake / Afon Dyfrdwy a Llyn Tegid (Wales)	Natural Resources Wales
Not shown	1650	N	Johnstown Newt Sites	Natural Resources Wales
Not shown	1901	N	Johnstown Newt Sites	Natural Resources Wales

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:

164

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
10	0	On Site	Unknown	Ancient and Semi-Natural Woodland
11	12	N	Unknown	Ancient and Semi-Natural Woodland
12	17	SW	Unknown	Ancient and Semi-Natural Woodland
13	70	N	Unknown	Ancient and Semi-Natural Woodland
14	205	SW	Unknown	Restored Ancient Woodland Site
15	212	E	Unknown	Restored Ancient Woodland Site
16	213	E	Unknown	Ancient Replanted Woodland
17A	215	E	Unknown	Restored Ancient Woodland Site
18	220	SE	Unknown	Restored Ancient Woodland Site
19	223	W	Unknown	Ancient and Semi-Natural Woodland
20	224	SE	Unknown	Ancient Replanted Woodland
21B	225	SE	Unknown	Other Ancient Woodland
22	252	SE	Unknown	Ancient Replanted Woodland
23	260	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
24	260	SW	Unknown	Restored Ancient Woodland Site
25	298	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
26	302	W	Unknown	Ancient and Semi-Natural Woodland
27A	305	E	Unknown	Ancient Replanted Woodland
28	324	E	Unknown	Restored Ancient Woodland Site
29C	329	E	Unknown	Ancient Replanted Woodland
30	334	E	Unknown	Ancient Replanted Woodland
31B	350	SE	Unknown	Ancient and Semi-Natural Woodland
32	364	SE	Unknown	Ancient Replanted Woodland
33	372	SE	Unknown	Ancient and Semi-Natural Woodland
34	377	S	Unknown	Ancient and Semi-Natural Woodland
35	386	E	Unknown	Restored Ancient Woodland Site
36	399	SE	Unknown	Ancient Replanted Woodland
37	407	E	Unknown	Ancient Replanted Woodland
38C	420	E	Unknown	Ancient Replanted Woodland
39	421	E	Unknown	Ancient Replanted Woodland
40	449	E	Unknown	Restored Ancient Woodland Site
41G	469	SE	Unknown	Ancient Replanted Woodland

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
42	470	SE	Unknown	Ancient Replanted Woodland
43D	471	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
44E	476	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
45D	477	SE	Unknown	Restored Ancient Woodland Site
46	495	S	HOPYARD WOOD	Ancient and Semi-Natural Woodland
47	504	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
48E	516	SE	Unknown	Restored Ancient Woodland Site
49	524	W	Unknown	Ancient Replanted Woodland
50	532	E	Unknown	Ancient Replanted Woodland
51F	538	E	Unknown	Ancient Replanted Woodland
52	563	SE	Unknown	Ancient and Semi-Natural Woodland
53	578	E	Unknown	Ancient Replanted Woodland
54F	589	E	Unknown	Ancient Replanted Woodland
55	598	W	Unknown	Restored Ancient Woodland Site
56	618	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
57G	631	S	Unknown	Restored Ancient Woodland Site
58	680	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
59	691	SE	Unknown	Ancient Replanted Woodland
60	694	SE	Unknown	Ancient and Semi-Natural Woodland
61H	699	SE	Unknown	Ancient and Semi-Natural Woodland
62	700	S	HOPYARD WOOD	Ancient and Semi-Natural Woodland
63H	701	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
64	729	E	Unknown	Ancient and Semi-Natural Woodland
65	740	S	Unknown	Restored Ancient Woodland Site
66	781	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
67	786	S	Unknown	Restored Ancient Woodland Site
68	790	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
69	815	S	Unknown	Ancient Replanted Woodland
70	822	S	Unknown	Ancient Replanted Woodland
71	828	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
72	838	SE	Unknown	Ancient and Semi-Natural Woodland
73	841	S	Unknown	Restored Ancient Woodland Site
74	846	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
75I	850	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
76	853	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
77J	887	S	Unknown	Restored Ancient Woodland Site
78	888	S	HOPYARD WOOD	Ancient and Semi-Natural Woodland
79I	903	S	Unknown	Ancient Replanted Woodland
80	904	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
81J	910	S	Unknown	Ancient Replanted Woodland
82	916	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
83	919	S	Unknown	Ancient and Semi-Natural Woodland
84	926	N	Unknown	Ancient and Semi-Natural Woodland
85	930	SW	Unknown	Restored Ancient Woodland Site
86	943	S	HOPYARD WOOD	Ancient and Semi-Natural Woodland
87	964	SW	Unknown	Ancient Replanted Woodland
88	966	S	Unknown	Ancient Replanted Woodland
89	974	SW	Unknown	Ancient Replanted Woodland
90	1011	SW	Unknown	Ancient Replanted Woodland
91	1012	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
92	1025	SE	Unknown	Ancient Replanted Woodland
93	1028	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1039	S	Unknown	Ancient Replanted Woodland
95	1042	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
Not shown	1058	S	Unknown	Restored Ancient Woodland Site
97K	1082	SE	Unknown	Ancient Replanted Woodland
98	1082	NE	Unknown	Restored Ancient Woodland Site
99	1088	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1088	S	Unknown	Ancient Replanted Woodland
101K	1092	SE	Unknown	Ancient Replanted Woodland
102	1103	SE	Unknown	Ancient Replanted Woodland

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
103M	1115	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1120	S	Unknown	Restored Ancient Woodland Site
105	1137	NE	Unknown	Ancient and Semi-Natural Woodland
106L	1137	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
107L	1139	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
108	1149	E	Unknown	Restored Ancient Woodland Site
Not shown	1162	N	Unknown	Ancient and Semi-Natural Woodland
Not shown	1164	S	Unknown	Ancient Replanted Woodland
111L	1165	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
112N	1180	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1201	S	Unknown	Other Ancient Woodland
Not shown	1203	S	Unknown	Restored Ancient Woodland Site
115	1221	SW	Unknown	Ancient Replanted Woodland
116M	1233	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
Not shown	1247	S	Unknown	Ancient Replanted Woodland
Not shown	1247	SW	Unknown	Restored Ancient Woodland Site
119N	1263	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1287	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1291	S	Unknown	Ancient and Semi-Natural Woodland
122	1302	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
123	1313	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1351	SE	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
125	1371	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1383	S	Unknown	Ancient Replanted Woodland
127	1428	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
Not shown	1430	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
Not shown	1430	SW	Unknown	Restored Ancient Woodland Site

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
Not shown	1438	S	Unknown	Ancient Replanted Woodland
Not shown	1441	SW	Unknown	Restored Ancient Woodland Site
Not shown	1450	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
Not shown	1452	N	Unknown	Restored Ancient Woodland Site
Not shown	1464	S	Unknown	Ancient Replanted Woodland
Not shown	1468	SW	Unknown	Ancient Replanted Woodland
136	1478	E	Unknown	Ancient and Semi-Natural Woodland
Not shown	1492	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1506	S	Unknown	Ancient Replanted Woodland
139	1509	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
140	1509	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1512	S	Unknown	Ancient Replanted Woodland
Not shown	1542	E	Unknown	Restored Ancient Woodland Site
Not shown	1545	N	Unknown	Ancient and Semi-Natural Woodland
Not shown	1560	S	Unknown	Ancient Replanted Woodland
Not shown	1577	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1587	SW	Unknown	Restored Ancient Woodland Site
Not shown	1588	SW	HOPYARD WOOD	Ancient and Semi-Natural Woodland
Not shown	1601	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1614	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1629	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1644	SW	Unknown	Restored Ancient Woodland Site
Not shown	1660	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1674	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1676	NE	Unknown	Restored Ancient Woodland Site
Not shown	1729	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1795	S	Unknown	Ancient Replanted Woodland

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
Not shown	1799	S	Unknown	Ancient Replanted Woodland
Not shown	1800	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1814	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1816	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1821	E	Unknown	Ancient Replanted Woodland
Not shown	1834	E	Unknown	Restored Ancient Woodland Site
Not shown	1866	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1900	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1901	S	Unknown	Restored Ancient Woodland Site
Not shown	1908	S	Unknown	Ancient Replanted Woodland
Not shown	1922	S	Unknown	Ancient Replanted Woodland
Not shown	1940	S	Unknown	Ancient Replanted Woodland
Not shown	1947	S	Unknown	Ancient Replanted Woodland
Not shown	1968	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1991	S	NANT-Y-CAE-COCH WOOD/BATHGROUND/+	Ancient and Semi-Natural Woodland
Not shown	1994	S	Unknown	Restored Ancient Woodland Site
Not shown	1997	S	Unknown	Restored Ancient Woodland Site

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:

1

The following World Heritage Site records provided by English Heritage and Cadw are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	World Heritage Site Name	Data Source
8	775	W	Pontcysyllte Aqueduct and Canal Buffer Zone	English Heritage

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:

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
Not shown	1438	SW	Clwyidan Range	Natural Resources Wales

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.