

APPENDIX 5

GROUNDSURE ENVIROINSIGHT REPORT



Integra Consulting

SUITE 4, 14 - 32 HEWITT STREET,
MANCHESTER, M15 4GB

Groundsure
Reference:

GS-5559980

Your Reference: 3036

Report Date

24 Oct 2018

Report Delivery Method: Email - pdf

Enviro Insight

Address: 337085.2698689602, 349077.96244894824,

Dear Sir/ Madam,

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

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

Yours faithfully,

Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

Address: 337085.2698689602, 349077.96244894824,

Date: 24 Oct 2018

Reference: GS-5559980

Client: Integra Consulting

NW

N

NE

W

E



SW

S

SE

Aerial Photograph Capture date: 07-May-2017

Grid Reference: 337074,349081

Site Size: 2.95ha

Report Reference: GS-5559980

Client Reference: 3036

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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	3	3	7	22
1.2 Additional Information – Historical Tank Database	0	0	0	2
1.3 Additional Information – Historical Energy Features Database	0	0	14	13
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	0	0
1.6 Historical military sites	1	0	0	0
1.7 Potentially Infilled Land	2	3	13	27
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	3
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	48
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	3
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	0	0	0	5
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	2	6
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	0	0	2	2
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	0	0
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	0	7	41

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	2	22	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 Records of Artificial Ground and Made Ground present beneath the study site	Identified
5.2 Records of Superficial Ground and Drift Geology present beneath the study site	Identified
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 Records of Strata Classification in the Superficial Geology within 500m of the study site				Identified		
6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site				Identified		
	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	9
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	1
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	2	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	#250GWV #	#500GWV #	Not searched	Not searched

Section 6: Hydrogeology and Hydrology

0-500m

	On-site	0-50m	51-250	251-500	501-1000	1000-1500
6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site	No	No	No	No	Yes	No
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	0	14	30	60	Not searched	Not searched
6.11 Surface water features within 250m of the study site	No	Yes	Yes	Not searched	Not searched	Not searched

Section 7: Flooding

7.1 Environment Agency Zone 2 floodplains within 250m of the study site	Identified					
7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	Identified					
7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site	Very Low					
7.4 Flood Defences within 250m of the study site	None identified					
7.5 Areas benefiting from Flood Defences within 250m of the study site	None identified					
7.6 Areas used for Flood Storage within 250m of the study site	None identified					
7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site	Potential at Surface					
7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas	Moderate					

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	1	0	21	29
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	0
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.11 Records of National Parks	0	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	0	0	0	0	0	0
8.14 Records of Green Belt land	0	0	0	0	0	0

Section 9: Natural Hazards	
9.1 Maximum risk of natural ground subsidence	Very Low
9.1.1 Maximum Shrink-Swell hazard rating identified on the study site	Very Low
9.1.2 Maximum Landslides hazard rating identified on the study site	Very Low
9.1.3 Maximum Soluble Rocks hazard rating identified on the study site	Negligible
9.1.4 Maximum Compressible Ground hazard rating identified on the study site	Negligible
9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site	Very Low
9.1.6 Maximum Running Sand hazard rating identified on the study site	Negligible
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The site is in a Radon Affected Area, as between 3 and 5% 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?	Basic radon protective measures are necessary.

Section 10: Mining	
10.1 Coal mining areas within 75m of the study site	Identified
10.2 Non-Coal Mining areas within 50m of the study site boundary	None identified
10.3 Brine affected areas within 75m of the study site	None identified

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 licences, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

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

8. Designated Environmentally Sensitive Sites

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

9. Natural Hazards

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

10. Mining

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

11. Contacts

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

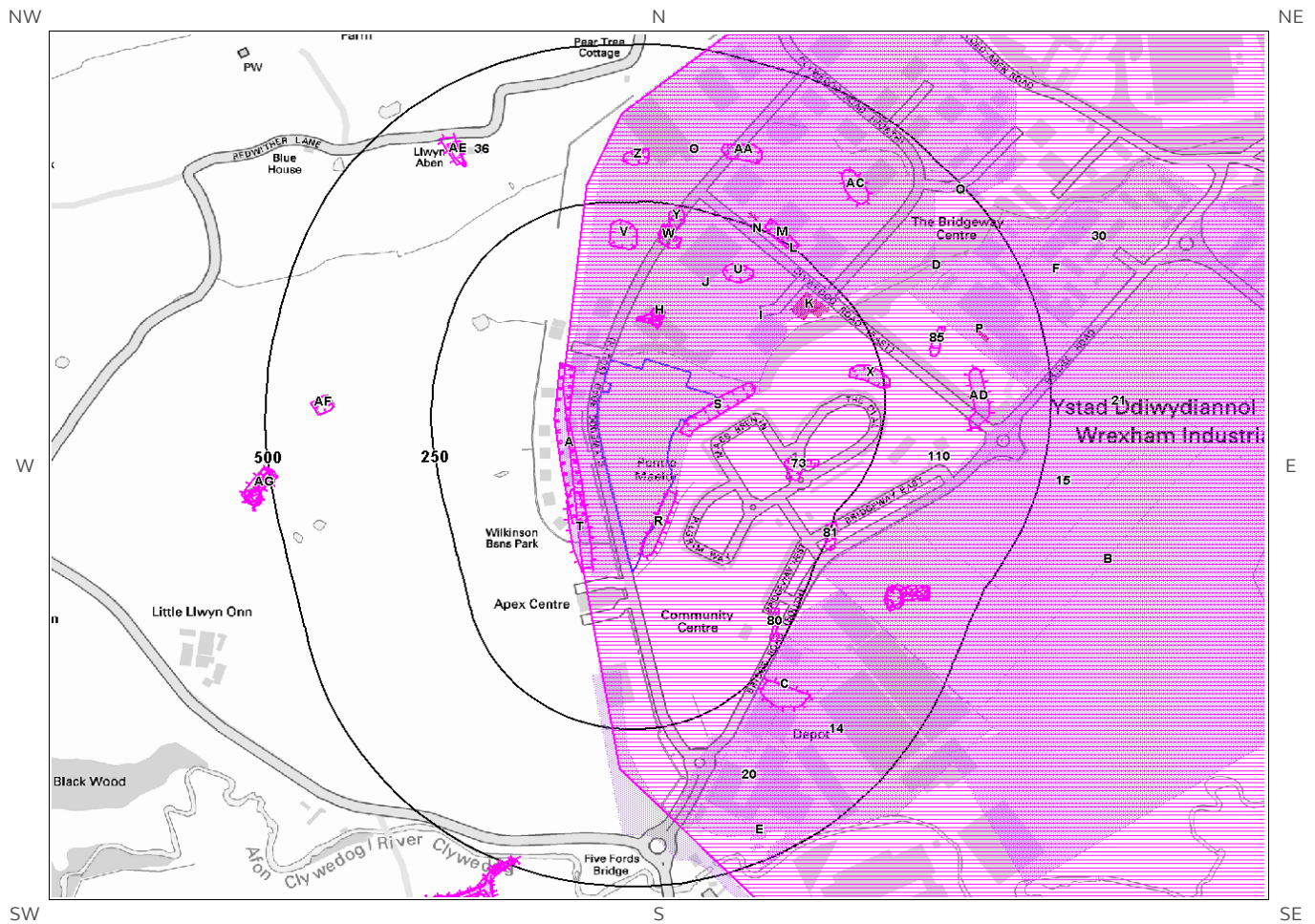
Note: Maps

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

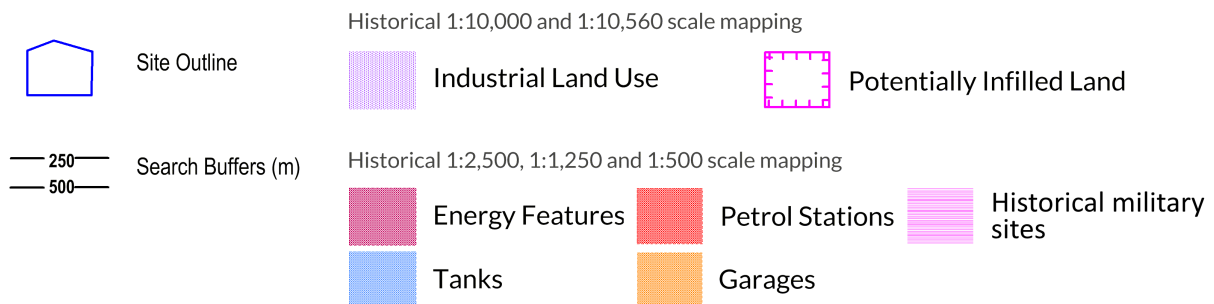
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

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

1. Historical Land Use



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1. Historical Industrial Sites

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

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

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 35

ID	Distance [m]	Direction	Use	Date
1N	0	On Site	Unspecified Commercial/Industrial	1964
2S	0	On Site	Unspecified Heap	1992
3R	0	On Site	Unspecified Heap	1992
4A	39	W	Cuttings	1964
5A	39	W	Cuttings	1977
6T	46	W	Cuttings	1949
7	157	S	Railway Sidings	1949
8U	158	N	Unspecified Heap	1964
9V	176	N	Unspecified Heap	1964
10X	200	E	Unspecified Heap	1992
11Y	209	N	Unspecified Heap	1964
12M	245	NE	Unspecified Heap	1964
13C	247	SE	Unspecified Depot	1977
14	254	SE	Unspecified Depot	1992
15	260	E	Unspecified Factory	1977
16B	260	E	Unspecified Commercial/Industrial	1977
17B	260	E	Unspecified Commercial/Industrial	1964
18C	266	SE	Refuse Heap	1964
19Z	309	N	Unspecified Heap	1964
20	319	SE	Unspecified Works	1977
21	326	SE	Unspecified Commercial/Industrial	1992
22F	332	NE	Unspecified Works	1992
23AA	343	N	Unspecified Heap	1964
24AC	366	NE	Unspecified Heap	1964
25AD	378	E	Unspecified Heap	1964
26D	385	NE	Unspecified Tank	1909
27D	386	NE	Unspecified Tank	1938
28E	446	SE	Unspecified Mill	1909
29E	472	SE	Flour Mill	1872
30	479	NE	Unspecified Works	1977
31F	482	NE	Unspecified Works	1964
32G	488	S	Unspecified Ground	1909

Workings				
33G	489	S	Unspecified Ground Workings	1938
34G	489	S	Unspecified Ground Workings	1938
35G	490	S	Unspecified Ground Workings	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:

2

ID	Distance (m)	Direction	Use	Date
36	380	NW	Unspecified Tank	1912
37D	384	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:

27

ID	Distance (m)	Direction	Use	Date
38H	73	N	Electricity Substation	1994
39H	73	N	Electricity Substation	1993
40I	133	NE	Electricity Substation	1993
41I	133	NE	Electricity Substation	1994
42J	135	N	Electricity Substation	1993
43J	135	N	Electricity Substation	1994
44K	178	NE	Electricity Substation	1994
45K	178	NE	Electricity Substation	1993
46K	197	NE	Electricity Substation	1986
47K	197	NE	Electricity Substation	1991
48K	199	NE	Electricity Substation	1983
49L	243	NE	Electricity Substation	1994
50L	243	NE	Electricity Substation	1993
51M	246	NE	Electricity Substation	1991
52N	260	N	Electricity Substation	1993
53N	261	N	Electricity Substations	1991

54N	266	N	Electricity Substation	1994
55O	334	N	Electricity Substation	1993
56O	339	N	Electricity Substation	1991
57O	340	N	Electricity Substation	1994
58P	401	E	Electricity Substation	1991
59P	401	E	Electricity Substation	1986
60P	409	E	Electricity Substation	1994
61P	409	E	Electricity Substation	1993
62Q	488	NE	Electricity Substation	1993
63Q	492	NE	Electricity Substation	1994
64Q	493	NE	Electricity Substation	1991

1.4 Additional Information – Historical Petrol and Fuel Site Database

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

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

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

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 0

Database searched and no data found.

1.6 Historical military sites

Certain military installations were not noted on historic mapping for security reasons. Whilst not all military land is necessarily of concern, Groundsure has researched and digitised a number of Ordnance Factories and other military industrial features (e.g. Ordnance Depots, Munitions Testing Grounds) which may be of contaminative concern. This research was drawn from a number of different sources, and should not be regarded as a definitive or exhaustive database of potentially contaminative military installations. The boundaries of sites within this database have been estimated from the best evidence available to Groundsure at the time of compilation.

Records of historical military sites within 500m of the search boundary: 1

ID	Distance (m)	Direction	Site Name	Date of operation	Activities
----	--------------	-----------	-----------	-------------------	------------

11	0	On Site	ROF Wrexham	c.1938 - 1988	c. WW2: Produced cordite, post WW2: Cordite production ceased in 1945 an the area was used as an industrial estate by the Welsh Development Agency to boost the local economy Explosives Factory
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1.7 Potentially Infilled Land

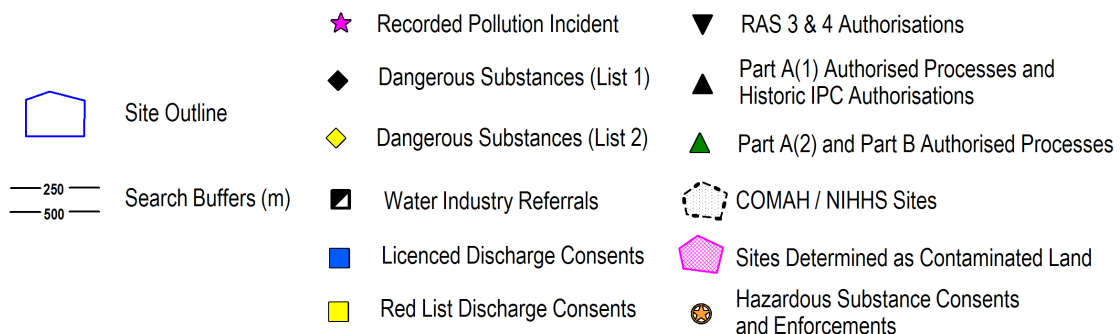
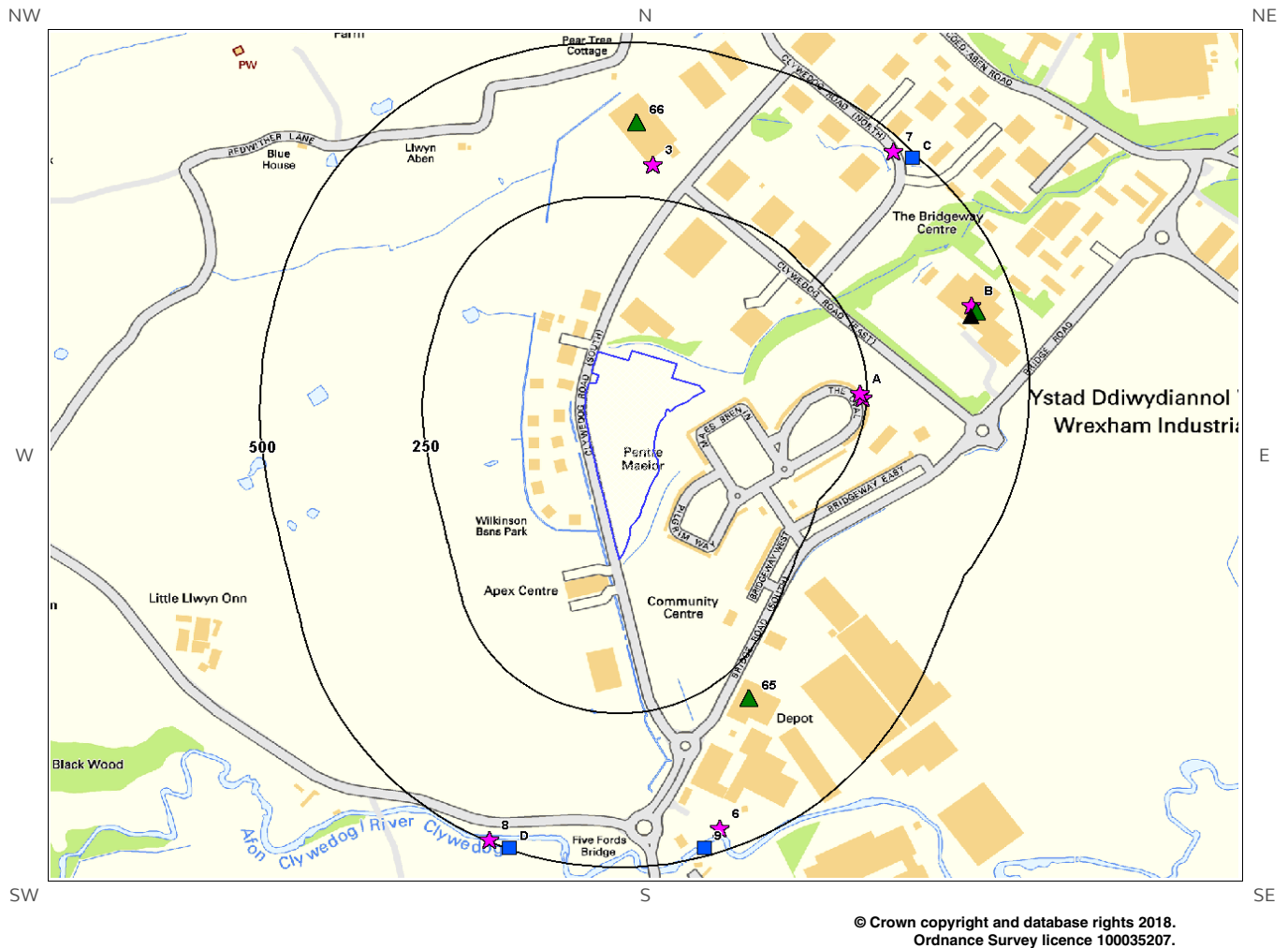
Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 45

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

ID	Distance(m)	Direction	Use	Date
65R	0	On Site	Unspecified Heap	1992
66S	0	On Site	Unspecified Heap	1992
67A	39	W	Cuttings	1964
68A	39	W	Cuttings	1977
69T	46	W	Cuttings	1949
70H	52	N	Ponds	1938
71H	55	N	Ponds	1872
72H	55	N	Ponds	1898
73	139	SE	Ponds	1938
74U	158	N	Unspecified Heap	1964
75V	176	N	Unspecified Heap	1964
76W	180	N	Ponds	1872
77W	180	N	Ponds	1938
78X	200	E	Unspecified Heap	1992
79Y	209	N	Unspecified Heap	1964
80	214	SE	Ponds	1938
81	243	E	Ponds	1872
82M	245	NE	Unspecified Heap	1964
83C	266	SE	Refuse Heap	1964
84Z	309	N	Unspecified Heap	1964
85	326	E	Ponds	1872
86AA	343	N	Unspecified Heap	1964
87AB	365	SE	Ponds	1872
88AB	365	SE	Ponds	1898
89AC	366	NE	Unspecified Heap	1964
90AB	368	SE	Ponds	1938
91AE	376	NW	Ponds	1938
92AD	378	E	Unspecified Heap	1964
93AE	385	NW	Pond	1964
94AE	385	NW	Pond	1977
95AF	398	W	Pond	1964
96AF	398	W	Pond	1992
97AF	398	W	Pond	1977
98G	488	S	Unspecified Ground Workings	1909

99G	489	S	Unspecified Ground Workings	1938
100G	489	S	Unspecified Ground Workings	1938
101G	490	S	Unspecified Ground Workings	1949
102AG	490	W	Ponds	1872
103AG	495	W	Ponds	1909
104AG	495	W	Ponds	1938
105AG	496	W	Ponds	1949
106AG	496	W	Ponds	1898
107AG	497	W	Pond	1992
108AG	497	W	Pond	1964
109AG	497	W	Pond	1977

2. Environmental Permits, Incidents and Registers Map



2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

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

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

3

The following IPC Authorisations are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details
116B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Address: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Process: Non-ferrous Metals Permit Number: BD8312 Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc
117B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Address: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Process: Non-ferrous Metals Permit Number: AS4117 Original Permit Number: IPCAIRAPP Date Approved: 4-12-1995 Effective Date: 8-12-1995 Status: Superseded By Variation
118B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Address: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Process: Non-ferrous Metals Permit Number: AX6443 Original Permit Number: IPCMAJVAR Date Approved: 1-5-1997 Effective Date: 1-5-1997 Status: Superseded By Variation

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

48

The following Part A(1) and IPPC Authorised Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details
68B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BK3638IF Original Permit Number: - EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01

ID	Distance (m)	Direction	NGR	Details	
				Status: Effective	
69B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
70B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: - EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
71B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Processing Ea/epr/bk3638if/v002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T	Permit Number: BK3638IF Original Permit Number: BK3638IF EPR Reference: - Issue Date: 15/3/2002 Effective Date: 15/3/2002 00:00:00 Last date noted as effective: 2018-03-01 Status: Superseded
72B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
73B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: -	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
74B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
75B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
76B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Processing Ea/epr/bk3638if/v002 Process: -	Permit Number: BK3638IF Original Permit Number: BK3638IF EPR Reference: - Issue Date: 15/3/2002 Effective Date: 15/3/2002 00:00:00 Last date noted as effective: 2018-03-

ID	Distance (m)	Direction	NGR	Details	
				01 Status: Superceded	
77B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
78B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: -	Permit Number: BK3638IF Original Permit Number: - EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
79B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
80B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
81B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
82B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T	Permit Number: BK3638IF Original Permit Number: - EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
83B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Processing Ea/epr/bk3638if/v002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T	Permit Number: FP3836WE Original Permit Number: BK3638IF EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 2018-03-01 Status: Determination
84B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-

ID	Distance (m)	Direction	NGR	Details	
				recovered pro...	01 Status: Effective
85B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
86B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
87B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
88B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
89B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T	Permit Number: BK3638 Original Permit Number: BK3638 EPR Reference: - Issue Date: 15-3-2002 0:00:00 Effective Date: 15-3-2002 0:00:00 Last date noted as effective: 2004-10-01 Status: Superseded By Pas
90B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Processing Ea/epr/bk3638if/v002 Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: BK3638IF EPR Reference: - Issue Date: 15/3/2002 Effective Date: 15/3/2002 00:00:00 Last date noted as effective: 2018-03-01 Status: Superseded
91B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS	Permit Number: HP3338VH Original Permit Number: BK3638IF EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
92B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T	Permit Number: HP3338VH Original Permit Number: BK3638IF EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-

ID	Distance (m)	Direction	NGR	Details	
93B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS	01 Status: Effective
					Permit Number: BK3638 Original Permit Number: BK3638 EPR Reference: - Issue Date: 15-3-2002 0:00:00 Effective Date: 15-3-2002 0:00:00 Last date noted as effective: 2004-10-01 Status: Superseded By Pas
94B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
95B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Processing Ea/epr/bk3638if/v002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T	Permit Number: BP3934LJ Original Permit Number: BK3638IF EPR Reference: - Issue Date: 14/7/2009 Effective Date: 14/7/2009 00:00:00 Last date noted as effective: 2018-03-01 Status: Superseded
96B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: - EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
97B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Processing Ea/epr/bk3638if/v002 Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: BK3638IF EPR Reference: - Issue Date: 15/3/2002 Effective Date: 15/3/2002 00:00:00 Last date noted as effective: 2018-03-01 Status: Superseded
98B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Processing Ea/epr/bk3638if/v002 Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: BK3638IF EPR Reference: - Issue Date: 15/3/2002 Effective Date: 15/3/2002 00:00:00 Last date noted as effective: 2018-03-01 Status: Superseded
99B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: -	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
100B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-

ID	Distance (m)	Direction	NGR	Details	
				recovered pro...	01 Status: Effective
101B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
102B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: -	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
103B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Processing Ea/epr/bk3638if/v002 Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: BK3638IF EPR Reference: - Issue Date: 15/3/2002 Effective Date: 15/3/2002 00:00:00 Last date noted as effective: 2018-03-01 Status: Superseded
104B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: - EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
105B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
106B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
107B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Processing Ea/epr/bk3638if/v002 Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: BK3638IF EPR Reference: - Issue Date: 15/3/2002 Effective Date: 15/3/2002 00:00:00 Last date noted as effective: 2018-03-01 Status: Superseded
108B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-

ID	Distance (m)	Direction	NGR	Details	
				recovered pro...	01 Status: Effective
109B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: - EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
110B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: - EPR Reference: - Issue Date: 20/6/2014 Effective Date: 20/6/2014 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
111B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Processing Ea/epr/bk3638if/v002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS	Permit Number: BK3638IF Original Permit Number: BK3638IF EPR Reference: - Issue Date: 15/3/2002 Effective Date: 15/3/2002 00:00:00 Last date noted as effective: 2018-03-01 Status: Superseded
112B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: Melting, including making alloys, of non-ferrous metals, including recovered pro...	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
113B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Works Epr/bk3638if Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS	Permit Number: BK3638IF Original Permit Number: HP3338VH EPR Reference: - Issue Date: 20/7/2017 Effective Date: 20/7/2017 00:00:00 Last date noted as effective: 2018-03-01 Status: Effective
114B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Processing Ea/epr/bk3638if/v002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS	Permit Number: FP3836WE Original Permit Number: BK3638IF EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 2018-03-01 Status: Determination
115B	427	E	337610 349260	Operator: Hydro Aluminium Deeside Ltd Installation Name: Wrexham Aluminium Processing Ea/epr/bk3638if/v002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS	Permit Number: BP3934LJ Original Permit Number: BK3638IF EPR Reference: - Issue Date: 14/7/2009 Effective Date: 14/7/2009 00:00:00 Last date noted as effective: 2018-03-01 Status: Superseded

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:

3

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
65	302	SE	337267 348642	Address: Lloyds Animal Feeds (Western) Ltd, Bridge Road (South), Wrexham Industrial Estate, Wrexham, LL13 9PS Process: Coating Processes Status: Current Permit Permit Type: Part A2 & B Enforcement: No Enforcement Notified. Date of Enforcement: No Enforcement Notified. Comment: No Enforcement Notified.
66	368	N	337096 349574	Address: Applied Component Technology Ltd, 54 Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS Process: Di-isocyanate Processes Status: Current Permit Permit Type: Part B Enforcement: No Enforcement Notified. Date of Enforcement: No Enforcement Notified. Comment: No Enforcement Notified.
67B	437	E	337620 349266	Address: Hydro Aluminium Deeside Ltd, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Process: Non-ferrous Metal Foundry Processes Status: Historical Permit Permit Type: Part B Enforcement: Enforcement Notified Date of Enforcement: 30/03/2006 Comment: Wood processing

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
9	487	S	337200 348400	Address: WREXHAM IND. ESTATE, WREXHAM IND. ESTATE, UNKNOWN, UNKNOWN, UNKNOWN Effluent Type: UNSPECIFIED Permit Number: CM0093101 Permit Version: 1 Receiving Water: CLYWEDOG Status: CONSENT EXPIRED - TIME LIMIT Issue date: 19/05/1982 Effective Date: 19-May-1982 Revocation Date:
10C	493	NE	337520 349520	Address: PLOT 6 WREXHAM IND EST, CLYWEDOG ROAD Effluent Type: UNSPECIFIED Permit Number: CM0207401 Permit Version: 2 Receiving Water: STREAM NR REDWITHER BROOK Status: CONSENT EXPIRED - TIME LIMIT Issue date: 29/01/1990 Effective Date: 29-Jan-1990 Revocation Date:
11C	493	NE	337520 349520	Address: PLOT 6 WREXHAM IND EST, CLYWEDOG ROAD Effluent Type: UNSPECIFIED Permit Number: CM0207401 Permit Version: 1 Receiving Water: STREAM NR REDWITHER BROOK Status: REVOKED - UNSPECIFIED Issue date: 01/01/1901 Effective Date: 01-Jan-1901 Revocation Date:
12D	498	S	336900 348400	Address: FIVE FORDS SSO, FIVE FORDS SSO, UNKNOWN, UNKNOWN, UNKNOWN, UNKNOWN Effluent Type: UNSPECIFIED Permit Number: CM0005701 Permit Version: 1 Receiving Water: CLYWEDOG Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 25/11/1968 Effective Date: 25-Nov-1968 Revocation Date:
13D	498	S	336900 348400	Address: FIVE FORDS SSO, FIVE FORDS SSO, UNKNOWN, UNKNOWN, UNKNOWN, UNKNOWN Effluent Type: UNSPECIFIED Permit Number: CM0005702 Permit Version: 1 Receiving Water: CLYWEDOG Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 25/11/1968 Effective Date: 25-Nov-1968 Revocation Date:

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

0

Database searched and no data found.

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

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

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

0

Database searched and no data found.

2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

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

8

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

ID	Distance (m)	Direction	NGR	Details
1A	239	E	337439 349138	Incident Date: 17-Aug-2001 Incident Identification: 25045 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
2A	243	E	337443 349130	Incident Date: 02-Jul-2013 Incident Identification: 1127929 Pollutant: Other Pollutant Pollutant Description: Noise Water Impact: Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3	304	N	337120 349509	Incident Date: 09-Jul-2003 Incident Identification: 172217 Pollutant: Other Pollutant Pollutant Description: Other Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
4B	432	E	337610 349280	Incident Date: 08-May-2002 Incident Identification: 77311 Pollutant: Other Pollutant Pollutant Description: Noise Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
5B	432	E	337610 349280	Incident Date: 08-May-2002 Incident Identification: 77311 Pollutant: Other Pollutant Pollutant Description: Noise Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
6	463	S	337223 348432	Incident Date: 04-Sep-2015 Incident Identification: 1370703 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified Water Impact: Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7	478	NE	337490 349530	Incident Date: 04-May-2001 Incident Identification: 4393 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
8	497	SW	336868	Incident Date: 05-Feb-2003 Water Impact: Category 3 (Minor)

ID	Distance (m)	Direction	NGR	Details
			348414	Incident Identification: 135062 Pollutant: Agricultural Materials and Wastes Pollutant Description: Slurry and Dilute Slurry 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.

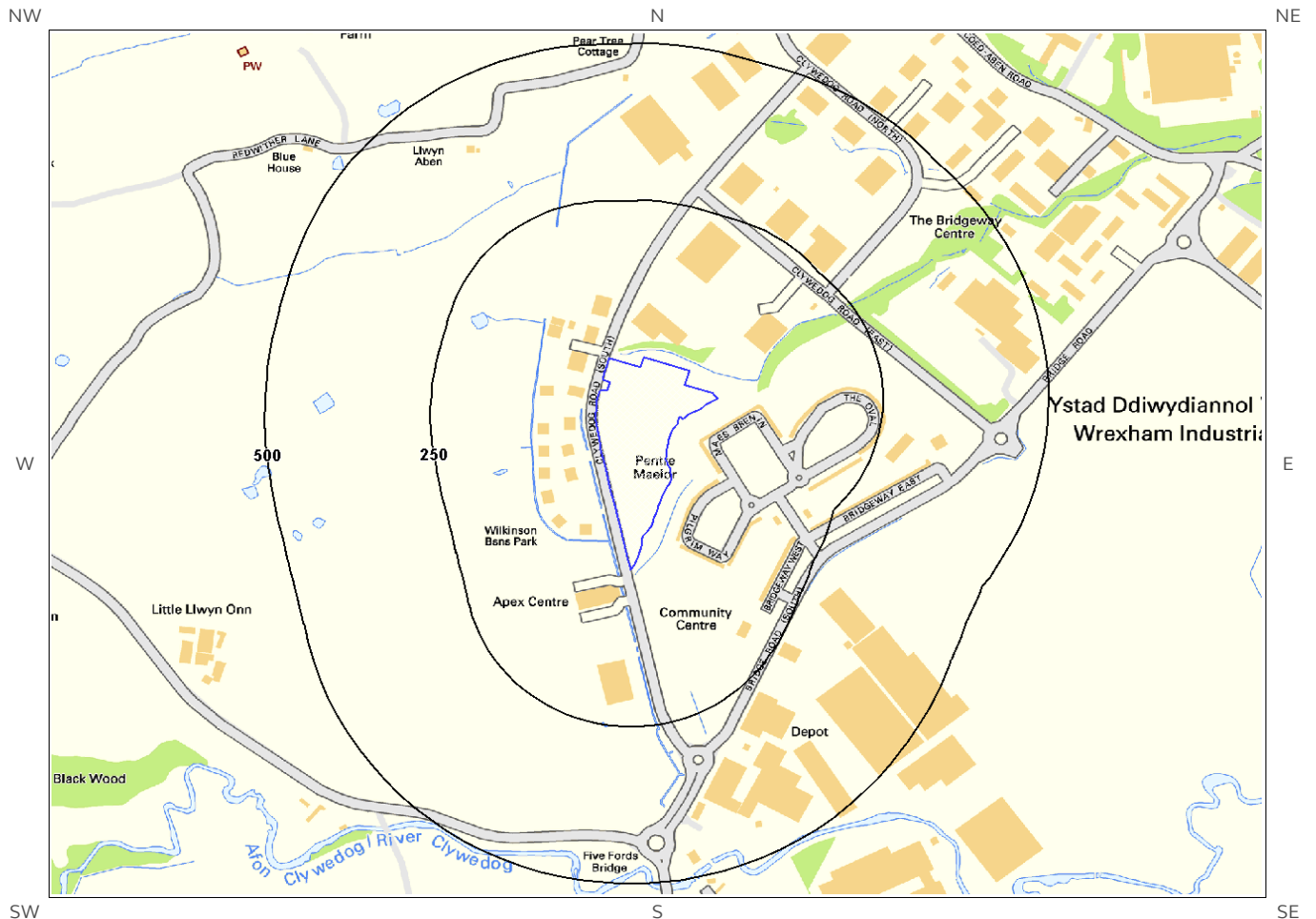
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

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

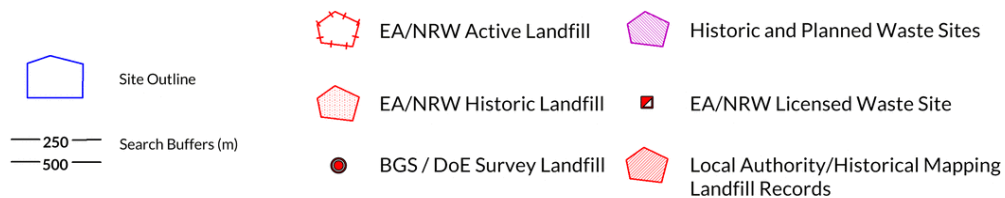
0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



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3. Landfill and Other Waste Sites

3.1 Landfill Sites

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

0

Database searched and no data found.

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

4

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	978	NE		Site Address: British Celanese, Wrexham Waste Licence: Yes Site Reference: LB/2.3 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: British Celanese Limited First Recorded: 31-Dec-1953 Last Recorded: 31-Dec-1983
Not shown	981	NE		Site Address: British Celanese, Wrexham Waste Licence: Yes Site Reference: LB/2.3 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: British Celanese Limited First Recorded: 31-Dec-1953 Last Recorded: 31-Dec-1983
Not shown	1023	NE		Site Address: British Celanese, Wrexham Waste Licence: Yes Site Reference: LB/2.3 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: British Celanese Limited First Recorded: 31-Dec-1953 Last Recorded: 31-Dec-1983
Not shown	1083	NE		Site Address: British Celanese, Wrexham Waste Licence: Yes Site Reference: LB/2.3 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: British Celanese Limited First Recorded: 31-Dec-1953 Last Recorded: 31-Dec-1983

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

0

Database searched and no data found.

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

0

Database searched and no data found.

3.2 Other Waste Sites

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

0

Database searched and no data found.

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

48

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

ID	Distance (m)	Direction	NGR	Details
Not shown	945	SW	336427 348175	Site Address: Abenbury, Wrexham, Clwyd, LL13 0PA Type: Biological Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WEL001 EPR reference: CP3194FG/S002 Operator: United Utilities Green Energy Limited Waste Management licence No: 37130 Annual Tonnage: 3528.0 Issue Date: 26/04/1995 Effective Date: - Modified: - Surrendered Date: 2.00309e+016 Expiry Date: 0 Cancelled Date: 0 Status: Surrendered Site Name: Five Fords Sewage Treatment Works Correspondence Address: -
Not shown	947	SW	336426 348174	Site Address: Abenbury, Wrexham, Clwyd, LL13 0PA Type: Biological Treatment Facility Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WEL001 EPR reference: EA/EPR/CP3194FG/S002 Operator: United Utilities Green Energy Limited Waste Management licence No: 37130 Annual Tonnage: 3528.0 Issue Date: 26/04/1995 Effective Date: - Modified: - Surrendered Date: 16/09/2003 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Five Fords Sewage Treatment Works Correspondence Address: -
Not	994	E	338150	Site Address: Redwither Road Transfer Issue Date: 19/02/2001

ID	Distance (m)	Direction	NGR	Details
shown			349434	Station, Unit 1, Wrexham Industrial Estate,, Clwyd, Wrexham, LL13 9RD Type: Special Waste Transfer Station Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AP3394FT EPR reference: - Operator: North Western Insulation Ltd Waste Management licence No: 37221 Annual Tonnage: 0.0 Effective Date: 19/02/2001 Modified: - Surrendered Date: - Expiry Date: 01/05/2012 Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	994	E	338150 349434	Site Address: Redwither Road Transfer Station, Unit 1, Wrexham Industrial Estate, Wrexham, LL13 9RD Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AP3394FT EPR reference: - Operator: North Western Insulation Ltd Waste Management licence No: 0 Annual Tonnage: 0.0 Issue Date: 19/02/2001 Effective Date: 19/02/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	994	E	338150 349434	Site Address: Unit 1, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Type: Special Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REY001 EPR reference: AP3394FT/V003 Operator: Reynolds Services North Western Insulation Ltd Waste Management licence No: 37221 Annual Tonnage: 4999.0 Issue Date: 19/02/2001 Effective Date: - Modified: 17/03/2006 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Redwither Road Transfer Station Correspondence Address: -
Not shown	994	E	338150 349434	Site Address: Redwither Road Transfer Station, Unit 1, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Type: Special Waste Transfer Station Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AP3394FT EPR reference: - Operator: - Waste Management licence No: 37221 Annual Tonnage: 0.0 Issue Date: 19/02/2001 Effective Date: 19/02/2001 Modified: - Surrendered Date: - Expiry Date: 01/05/2012 Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	995	E	338151 349435	Site Address: Unit 1, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Type: Special Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REY001 EPR reference: AP3394FT/V003 Operator: North Western Insulation Ltd Waste Management licence No: 37221 Annual Tonnage: 4999.0 Issue Date: 19/02/2001 Effective Date: - Modified: 17/03/2006 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Expired Site Name: Redwither Road Transfer Station Correspondence Address: -
Not shown	1072	E	338241 349399	Site Address: Site 1, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AMR001 EPR reference: - Operator: Alpha Environmental Issue Date: 09/03/2000 Effective Date: - Modified: 10/12/2003 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Wrexham Recycling Centre Correspondence Address: Site 1, Redwither Road, Wrexham Industrial

ID	Distance (m)	Direction	NGR	Details	
				Management Ltd Waste Management licence No: 37211 Annual Tonnage: 0.0	Estate, Wrexham, LL13 9RD
Not shown	1072	E	338241 349399	Site Address: Site 1, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AMR001 EPR reference: - Operator: Alfa Environmental Management Ltd Waste Management licence No: 37211 Annual Tonnage: 0.0	Issue Date: 09/03/2000 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Wrexham Recycling Centre Correspondence Address: Site 1, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD
Not shown	1076	E	338244 349404	Site Address: Site One, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ALA002 EPR reference: EA/EPR/WP3094FB/V002 Operator: Alan's Skip Hire (Wales) Ltd Waste Management licence No: 37211 Annual Tonnage: 24999.0	Issue Date: 09/03/2000 Effective Date: 01/06/2005 Modified: 22/03/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: A S H Wrexham Recycling Centre Correspondence Address: -
Not shown	1076	E	338244 349404	Site Address: Site 1, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ALA002 EPR reference: WP3094FB/T003 Operator: Alan's Skip Hire (Wales) Ltd. Waste Management licence No: 37211 Annual Tonnage: 54196.0	Issue Date: 09/03/2000 Effective Date: 01/06/2005 Modified: 10/12/2003 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Wrexham Recycling Centre Correspondence Address: -
Not shown	1077	E	338245 349405	Site Address: Site One, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Type: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: ALA002 EPR reference: WP3094FB/V Operator: Alan's Skip Hire (Wales) Ltd Waste Management licence No: 37211 Annual Tonnage: 0.0	Issue Date: 09/03/2000 Effective Date: 01/06/2005 Modified: 15/04/2015 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified Site Name: A S H Wrexham Recycling Centre Correspondence Address: -
Not shown	1094	E	338251 349446	Site Address: Entrec Ltd, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RD Type: Metal Recycling Site (Vehicle Dismantler) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: YP3994FY EPR reference: - Operator: Entrec Ltd Waste Management licence No: 37267 Annual Tonnage: 25000.0	Issue Date: 10/09/2004 Effective Date: 10/09/2004 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
Not	1094	E	338251	Site Address: -	Issue Date: 10/09/2004

ID	Distance (m)	Direction	NGR	Details	
shown			349446	Type: Metal Recycling Site (Vehicle Dismantler) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: YP3994FY EPR reference: - Operator: - Waste Management licence No: 37267 Annual Tonnage: 25000.0	Effective Date: 10/09/2004 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
Not shown	1094	E	338251 349446	Site Address: Entrec Ltd, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RD Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: YP3994FY EPR reference: - Operator: Entrec Ltd Waste Management licence No: 0 Annual Tonnage: 25000.0	Issue Date: 10/09/2004 Effective Date: 10/09/2004 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
Not shown	1094	E	338251 349446	Site Address: Entrec Ltd, Entrec Ltd, Wrexham Industrial Estate, Wrexham, LL13 9RD Type: Metal Recycling Site (Vehicle Dismantler) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: YP3994FY EPR reference: - Operator: Entrec Ltd Waste Management licence No: 37267 Annual Tonnage: 25000.0	Issue Date: 10/09/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: Entrec Ltd Correspondence Address: -
Not shown	1094	E	338251 349446	Site Address: Land / Premises At, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Type: Material Recycling Treatment Facility Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ENT002 EPR reference: EA/EPR/YP3994FY/A001 Operator: Entrec Ltd Waste Management licence No: 37267 Annual Tonnage: 25000.0	Issue Date: 08/09/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Entrec Redwither Road Correspondence Address: -
Not shown	1095	E	338252 349447	Site Address: Entrec Ltd, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Type: Metal Recycling Site (Vehicle Dismantler) Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ENT002 EPR reference: YP3994FY/V003 Operator: Entrec Ltd Waste Management licence No: 37267 Annual Tonnage: 25000.0	Issue Date: 08/09/2004 Effective Date: - Modified: 07/05/2014 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified Site Name: Entrec Ltd Correspondence Address: -
Not shown	1135	E	338306 349396	Site Address: A S H Wrexham Recycling Centre, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Type: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3094FB EPR reference: - Operator: -	Issue Date: 09/03/2000 Effective Date: 09/03/2000 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -

ID	Distance (m)	Direction	NGR	Details	
				Waste Management licence No: 37211 Annual Tonnage: 24999.0	
Not shown	1135	E	338306 349396	Site Address: A S H Wrexham Recycling Centre, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RD Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3094FB EPR reference: - Operator: Alan's Skip Hire (Wales) Ltd Waste Management licence No: 0 Annual Tonnage: 24999.0	Issue Date: 09/03/2000 Effective Date: 09/03/2000 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
Not shown	1178	SW	336405 347895	Site Address: Five Fords Wwtw, Cefn Road, Abenbury, Wrexham, Mid Glamorgan, LL13 0PA Type: Landfill Gas Engine (<3 mW) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: DWR058 EPR reference: AP3139FT/V002 Operator: Dwr Cymru Cyfyngedig Waste Management licence No: 104941 Annual Tonnage: 0.0	Issue Date: 26/03/2013 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Issued Site Name: Five Fords W W T W Chp Facility Correspondence Address: -
Not shown	1183	E	338340 349460	Site Address: Bluestone Chemicals Ltd, Wrexham Industrial Estate, Clwyd, Wrexham, Wrexham, LL13 9RD Type: Chemical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: TP3594FK EPR reference: - Operator: Bluestone Chemicals Ltd Waste Management licence No: 37094 Annual Tonnage: 0.0	Issue Date: 17/01/1994 Effective Date: 17/01/1994 Modified: - Surrendered Date: - Expiry Date: 13/09/1999 Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	1183	E	338340 349460	Site Address: Bluestone Chemicals, Redwither Rd, Wrexham Industrial Estate, Wrexham, LL13 9RD Type: Chemical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: BLU003 EPR reference: - Operator: Bluestone Chemicals Ltd Waste Management licence No: 37094 Annual Tonnage: 0.0	Issue Date: 17/01/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: Bluestone Chemicals Ltd Correspondence Address: Bluestone Chemicals, Redwither Rd, Wrexham Industrial Estate, Wrexham, LL13 9RD
Not shown	1183	E	338340 349460	Site Address: Bluestone Chemicals Ltd, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Type: Chemical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: TP3594FK EPR reference: - Operator: - Waste Management licence No: 37094 Annual Tonnage: 0.0	Issue Date: 17/01/1994 Effective Date: 17/01/1994 Modified: - Surrendered Date: - Expiry Date: 13/09/1999 Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	1183	E	338340 349460	Site Address: Bluestone Chemicals Ltd, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RD Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: TP3594FK EPR reference: -	Issue Date: 17/01/1994 Effective Date: 17/01/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: -

ID	Distance (m)	Direction	NGR	Details
				Operator: Bluestone Chemicals Ltd Waste Management licence No: 0 Annual Tonnage: 0.0 Correspondence Address: -
Not shown	1185	E	338341 349461	Site Address: Bluestone Chemicals, Redwither Rd, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Type: Chemical Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BLU003 EPR reference: TP3594FK/A001 Operator: Bluestone Chemicals Ltd Waste Management licence No: 37094 Annual Tonnage: 931.0 Issue Date: 17/01/1994 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Expired Site Name: Bluestone Chemicals Ltd Correspondence Address: -
Not shown	1185	SW	336400 347890	Site Address: Five Fords Wwtw, Cefn Road, Abenbury, Wrexham, Mid Glamorgan, LL13 0PA Type: Landfill Gas Engine (<3 mW) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DWR058 EPR reference: EA/EPR/AP3139FT/V002 Operator: Dwr Cymru Cyfyngedig Waste Management licence No: 104941 Annual Tonnage: 0.0 Issue Date: 26/03/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Five Fords W W T W Chp Facility Correspondence Address: -
Not shown	1185	SW	336400 347890	Site Address: Dwr Cymru Cyfyngedig (Welsh Water), Five Fords WWTW Gas to Grid Facility, Five Fords WwTW CHP Facility Cefn Road Cefn Road, Wrexham, LL13 0PA Type: Landfill Gas Engine (<3 mW) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AP3139FT EPR reference: - Operator: Dwr Cymru Cyfyngedig (Welsh Water) Waste Management licence No: 0 Annual Tonnage: 0.0 Issue Date: 25/03/2015 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: Five Fords WWTW Gas to Grid Facility Correspondence Address: -
Not shown	1190	E	338386 349236	Site Address: ASH Wrexham Recycling Centre, Site One, Redwither Road, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RD Type: Physical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3094FB EPR reference: - Operator: Alan's Skip Hire (Wales) Ltd Waste Management licence No: 37211 Annual Tonnage: 74999.0 Issue Date: 03/10/2017 Effective Date: 03/10/2017 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
Not shown	1190	E	338386 349236	Site Address: ASH Wrexham Recycling Centre, Site One, Redwither Road, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RD Type: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3094FB EPR reference: - Operator: Alan's Skip Hire (Wales) Ltd Waste Management licence No: 37211 Annual Tonnage: 74999.0 Issue Date: 03/10/2017 Effective Date: 03/10/2017 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
Not	1497	NE	338582	Site Address: Marlborough Road Clinical Issue Date: 12/10/1992

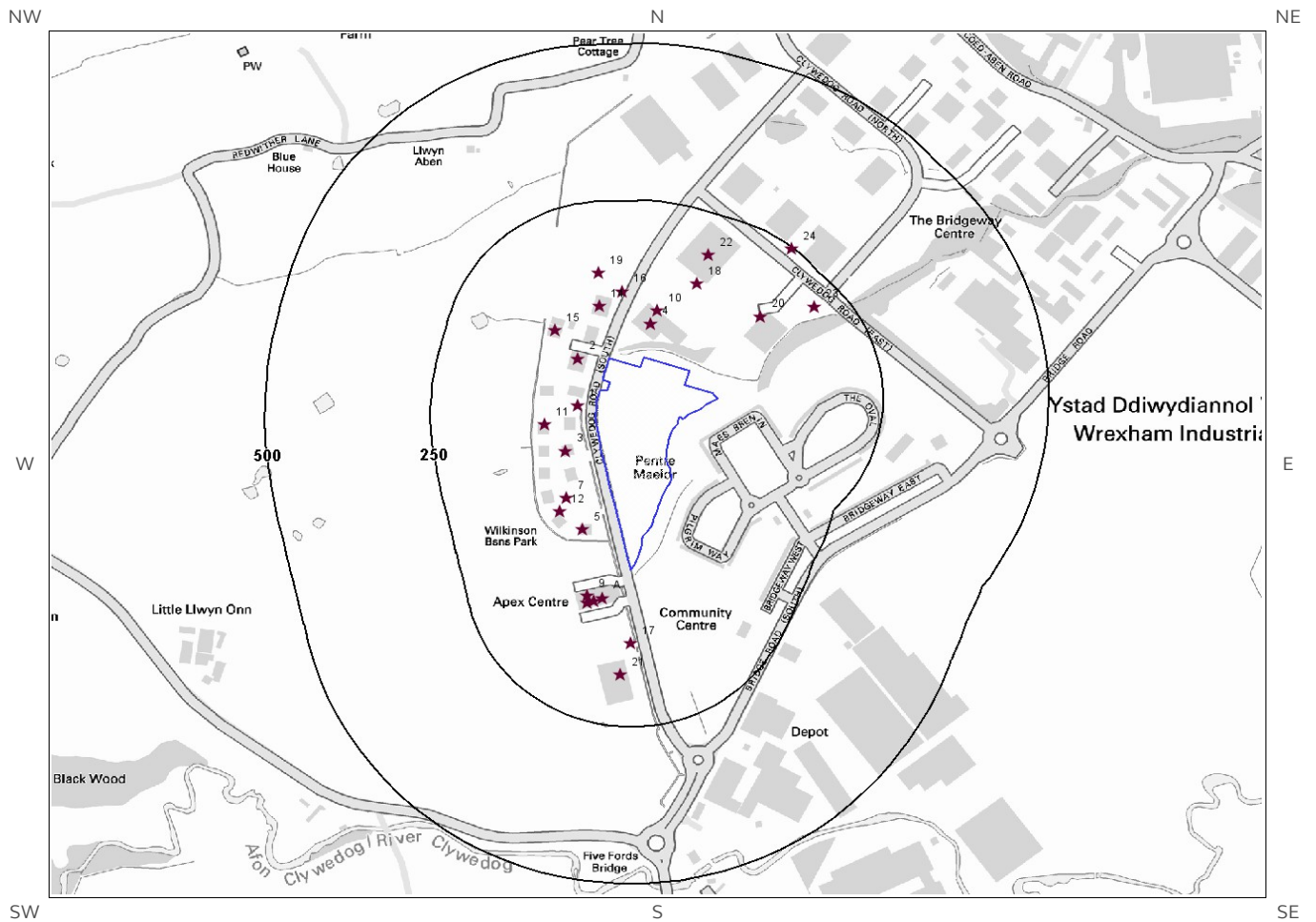
ID	Distance (m)	Direction	NGR	Details
shown			349719	Waste, Wrexham Industrial Estate, Clwyd, Wrexham, Wrexham, LL13 9RJ Type: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: MP3894FG EPR reference: - Operator: Sterile Technologies (Newcastle) Ltd Waste Management licence No: 37043 Annual Tonnage: 0.0 Effective Date: 12/10/1992 Modified: - Surrendered Date: - Expiry Date: 09/02/2004 Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	1497	NE	338582 349719	Site Address: Marlborough Road Clinical Waste, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Type: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: MP3894FG EPR reference: - Operator: - Waste Management licence No: 37043 Annual Tonnage: 0.0 Issue Date: 12/10/1992 Effective Date: 12/10/1992 Modified: - Surrendered Date: - Expiry Date: 09/02/2004 Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	1497	NE	338582 349719	Site Address: Marlborough Road Clinical Waste, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RJ Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: MP3894FG EPR reference: - Operator: Sterile Technologies (Newcastle) Ltd Waste Management licence No: 0 Annual Tonnage: 0.0 Issue Date: 12/10/1992 Effective Date: 12/10/1992 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	1497	NE	338582 349719	Site Address: Trinco Ltd, Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TRI002 EPR reference: - Operator: Sterile Technology(newcastle) Limited Waste Management licence No: 37043 Annual Tonnage: 0.0 Issue Date: 12/10/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC Site Name: Marlborough Road Clinical Waste Correspondence Address: Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ
Not shown	1497	NE	338582 349719	Site Address: Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TRI002 EPR reference: - Operator: Sterile Technology (Newcastle) Ltd Waste Management licence No: 37043 Annual Tonnage: 7739.0 Issue Date: 12/10/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC Site Name: Marlborough Road Clinical Waste Correspondence Address: Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ
Not shown	1499	NE	338582 349722	Site Address: Wrexham Clinical Waste Treatment Plant & Transfer Station, Wrexham Industrial Estate, Clwyd, Wrexham, Wrexham, LL13 9RJ Type: Physical Treatment Facility Issue Date: 23/06/2006 Effective Date: 23/06/2006 Modified: - Surrendered Date: - Expiry Date: 23/06/2006

ID	Distance (m)	Direction	NGR	Details
				Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: PP3892FX EPR reference: - Operator: Sterile Technologies (Newcastle) Ltd Waste Management licence No: 37305 Annual Tonnage: 0.0 Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	1499	NE	338582 349722	Site Address: Wrexham Clinical Waste Treatment And Transfer Station, Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Clwyd, Wrexham, Wrexham, LL13 9RJ Type: Clinical Waste Transfer Station Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AB3033RL EPR reference: - Operator: Sita U K Ltd Waste Management licence No: 37223 Annual Tonnage: 0.0 Issue Date: 06/03/2001 Effective Date: 06/03/2001 Modified: - Surrendered Date: - Expiry Date: 15/03/2017 Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	1499	NE	338582 349722	Site Address: Wrexham Clinical Waste Treatment And Transfer Station, Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Type: Clinical Waste Transfer Station Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AB3033RL EPR reference: - Operator: - Waste Management licence No: 37223 Annual Tonnage: 0.0 Issue Date: 06/03/2001 Effective Date: 06/03/2001 Modified: - Surrendered Date: - Expiry Date: 15/03/2017 Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	1499	NE	338582 349722	Site Address: Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ Type: Physical Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: STE003 EPR reference: - Operator: Sterile Technologies (Newcastle) Ltd Waste Management licence No: 37223 Annual Tonnage: 16999.0 Issue Date: 06/03/2001 Effective Date: 10/02/2004 Modified: 10/12/2003 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Clinical Waste Treatment (H D S) & Transfer Site Correspondence Address: Marlborough Road, Wrexham Ind Est, Wrexham, LL13 9RJ
Not shown	1499	NE	338582 349722	Site Address: Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Type: Physical Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: STE003 EPR reference: EA/EPR/AB3033RL/V005 Operator: Sita Uk Ltd Waste Management licence No: 37223 Annual Tonnage: 16999.0 Issue Date: 06/03/2001 Effective Date: 10/02/2004 Modified: 27/10/2011 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Wrexham Clinical Waste Treatment And Transfer Station Correspondence Address: -
Not shown	1499	NE	338582 349722	Site Address: Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Type: Physical Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: STE004 EPR reference: EA/EPR/PP3892FX/A001 Operator: Sterile Technologies Issue Date: 23/06/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC Site Name: Wrexham Clinical Waste Treatment Plant & Transfer Station

ID	Distance (m)	Direction	NGR	Details	
				(Newcastle) Ltd Waste Management licence No: 37305 Annual Tonnage: 0.0	Correspondence Address: -
Not shown	1499	NE	338582 349722	Site Address: Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Type: Physical Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: STE003 EPR reference: AB3033RL/V005 Operator: Sita U K Ltd Waste Management licence No: 37223 Annual Tonnage: 16999.0	Issue Date: 06/03/2001 Effective Date: 10/02/2004 Modified: 27/10/2011 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Wrexham Clinical Waste Treatment And Transfer Station Correspondence Address: -
Not shown	1499	NE	338582 349722	Site Address: Wrexham Clinical Waste Treatment Plant & Transfer Station, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RJ Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: PP3892FX EPR reference: - Operator: Sterile Technologies (Newcastle) Ltd Waste Management licence No: 0 Annual Tonnage: 0.0	Issue Date: 23/06/2006 Effective Date: 23/06/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	1499	NE	338582 349722	Site Address: Wrexham Clinical Waste Treatment Plant & Transfer Station, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Type: Physical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: PP3892FX EPR reference: - Operator: - Waste Management licence No: 37305 Annual Tonnage: 0.0	Issue Date: 23/06/2006 Effective Date: 23/06/2006 Modified: - Surrendered Date: - Expiry Date: 23/06/2006 Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	1499	NE	338582 349722	Site Address: Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Type: Physical Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: STE003 EPR reference: EA/EPR/AP3094FL/T004 Operator: Polkacrest Wales Ltd Waste Management licence No: 37223 Annual Tonnage: 16999.0	Issue Date: 06/03/2001 Effective Date: 10/02/2004 Modified: 10/12/2003 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Clinical Waste Transfer Site Correspondence Address: -
Not shown	1499	NE	338582 349722	Site Address: Wrexham Clinical Waste Treatment Plant And Transfer Station, Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ Type: Physical Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: STE004 EPR reference: - Operator: Sterile Technologies (newcastle) Limited Waste Management licence No: 37305 Annual Tonnage: 0.0	Issue Date: 23/06/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Wrexham Clinical Waste Treatment Plant And Transfer Station Correspondence Address: Wrexham Clinical Waste Treatment Plant And Transfer Station, Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ
Not	1499	NE	338582	Site Address: Wrexham Clinical Waste	Issue Date: 06/03/2001

ID	Distance (m)	Direction	NGR	Details
shown			349722	Treatment And Transfer Station, Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RJ Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AB3033RL EPR reference: - Operator: Sita U K Ltd Waste Management licence No: 0 Annual Tonnage: 0.0 Effective Date: 06/03/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
Not shown	1499	NE	338583 349720	Site Address: Malborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TRI002 EPR reference: MP3894FG/A001 Operator: Sterile Technologies (Newcastle) Ltd Waste Management licence No: 37043 Annual Tonnage: 7739.0 Issue Date: 12/10/1992 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: To PPC Site Name: Marlborough Road Clinical Waste Correspondence Address: -

4. Current Land Use Map



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4. Current Land Uses

4.1 Current Industrial Data

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

24

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

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	29	W	Electricity Sub Station	336988 349131	LL13	Electrical Features	Infrastructure and Facilities
2	45	W	R F Bellis Haulage Ltd	336989 349205	Russell Bellis Transport Unit 4, Clywedog Road South, Wrexham, LL13 9XS	Distribution and Haulage	Transport, Storage and Delivery
3	54	W	Meadow Vale Foods	336969 349058	Unit 18-19 Wilkinson Business Park, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9AE	Catering and Non Specific Food Products	Foodstuffs
4	56	N	N U Instruments	337098 349261	Unit 74, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS	Measurement and Inspection Equipment	Industrial Products
5	56	W	Soleil Foodservice Ltd	336995 348933	Unit 4 Wilkinson Business Park, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9AE	Distribution and Haulage	Transport, Storage and Delivery
6A	62	SW	Apex Auto Centre	337025 348824	Unit 2 Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS	Vehicle Repair, Testing and Servicing	Repair and Servicing
7	68	W	Electricity Sub Station	336972 348984	LL13	Electrical Features	Infrastructure and Facilities
8A	74	SW	Riverside Office Furniture	337012 348820	Unit 3 Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS	Office and Shop Equipment	Industrial Products
9	77	SW	Wilsons Accident Repair Centre Ltd	337003 348828	Unit 7 Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS	Vehicle Repair, Testing and Servicing	Repair and Servicing
10	78	N	Electricity Sub Station	337109 349282	LL13	Electrical Features	Infrastructure and Facilities
11	79	W	R V Shipping Ltd	336938 349101	Unit 14 Wilkinson Business Park, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9AE	Distribution and Haulage	Transport, Storage and Delivery

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
12	84	W	Wrexham Industrial Estate	336961 348962	LL13	Business Parks and Industrial Estates	Industrial Features
13A	85	SW	Lloyd & Jones Engineers Merchants	337002 348816	Unit 4 Apex Centre, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS	General Construction Supplies	Industrial Products
14	85	N	Malpas Tractors	337021 349289	Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS	Agricultural Machinery and Goods	Industrial Products
15	93	NW	Lyan Packaging Supplies Ltd	336954 349250	Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS	Packaging	Industrial Products
16	109	N	Electricity Sub Station	337055 349313	LL13	Electrical Features	Infrastructure and Facilities
17	117	S	Electricity Sub Station	337069 348752	LL13	Electrical Features	Infrastructure and Facilities
18	136	N	Electricity Sub Station	337168 349325	LL13	Electrical Features	Infrastructure and Facilities
19	137	N	Tension Control Bolts Ltd	337020 349342	Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS	General Construction Supplies	Industrial Products
20	137	NE	Electricity Sub Station	337264 349273	LL13	Electrical Features	Infrastructure and Facilities
21	167	S	Bonaprene Products Ltd	337052 348702	Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS	Industrial Repairs and Servicing	Repair and Servicing
22	186	N	Porvair Filtration	337186 349371	Unit 73, Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS	Air and Water Filtration	Industrial Products
23	206	NE	Electricity Sub Station	337345 349289	LL13	Electrical Features	Infrastructure and Facilities
24	248	NE	Electricity Sub Station	337311 349381	LL13	Electrical Features	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

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

0

Database searched and no data found.

4.3 National Grid High Voltage Underground Electricity Transmission Cables

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

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

0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

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

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

0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

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

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

5.2 Superficial Ground and Drift Geology

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

Lex Code	Description	Rock Type
TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
RTDU-XSV	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	SAND AND GRAVEL

5.3 Bedrock and Solid Geology

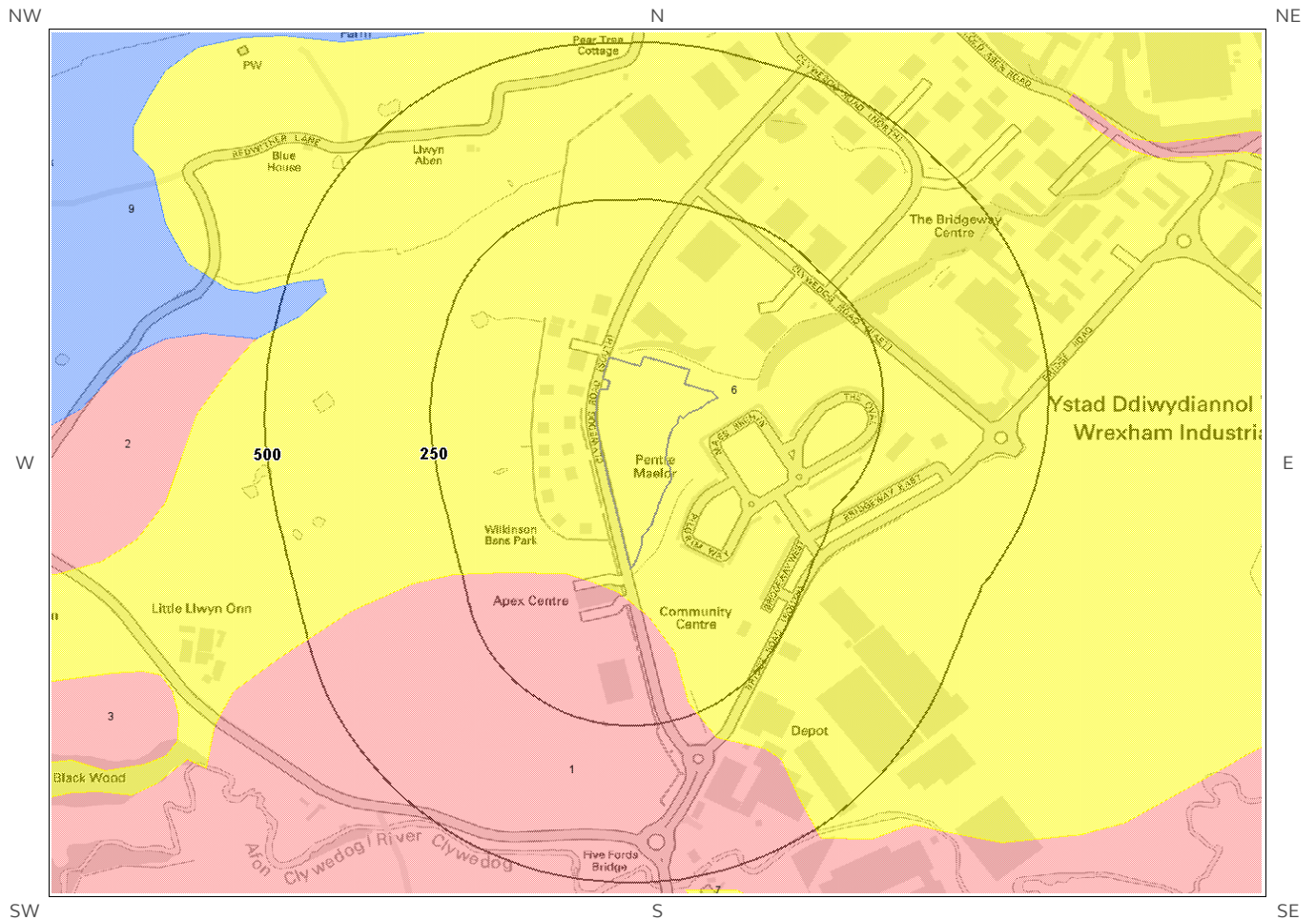
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
SAL-MDSC	SALOP FORMATION	MUDSTONE, SANDSTONE AND CONGLOMERATE

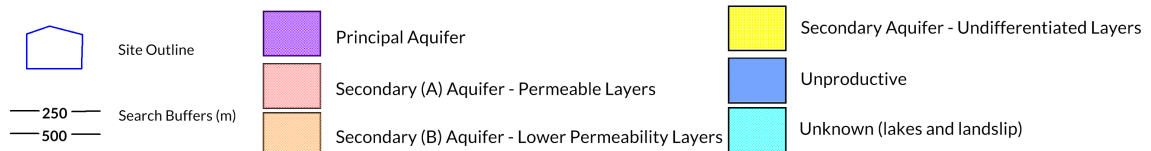
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

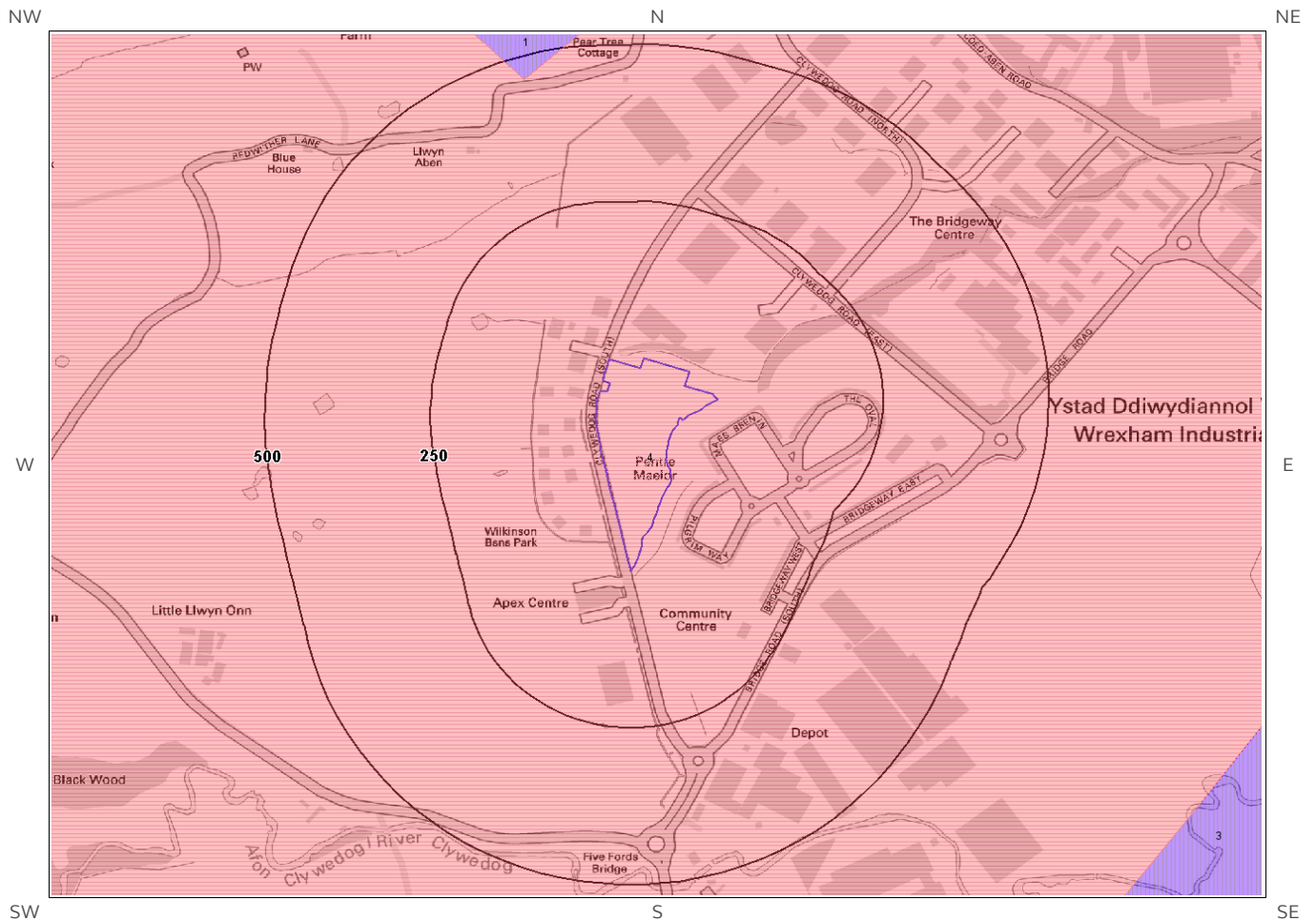
6a. Aquifer Within Superficial Geology



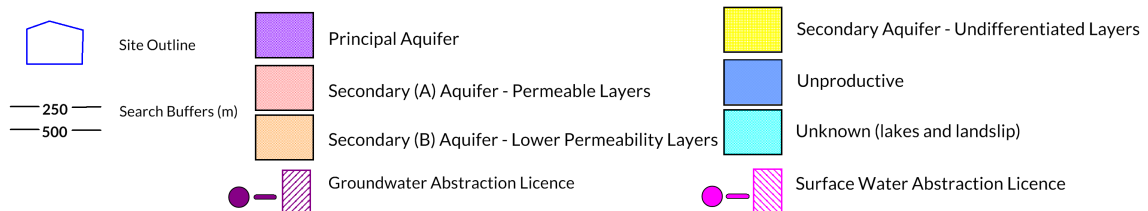
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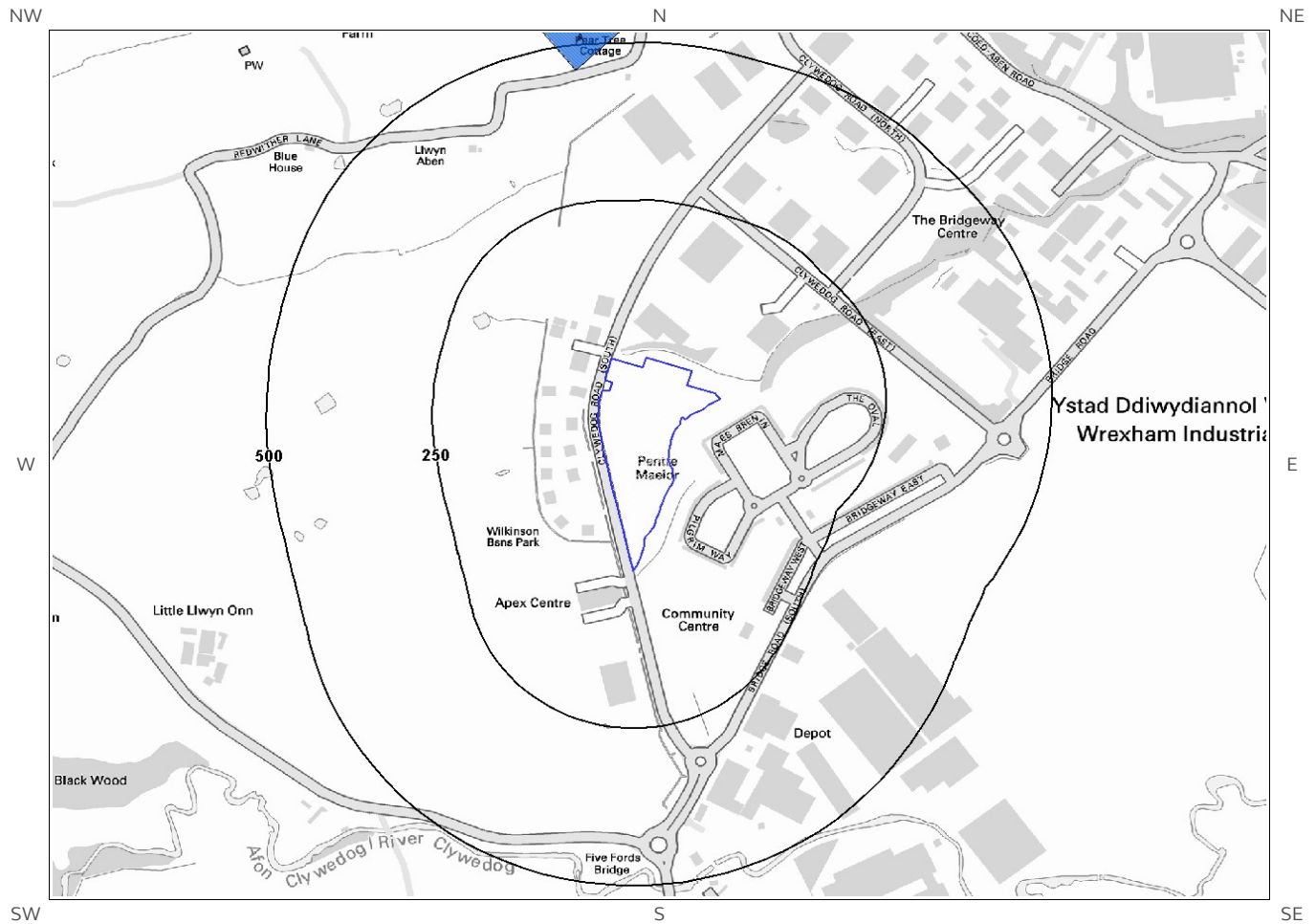
6b. Aquifer Within Bedrock Geology and Abstraction Licences



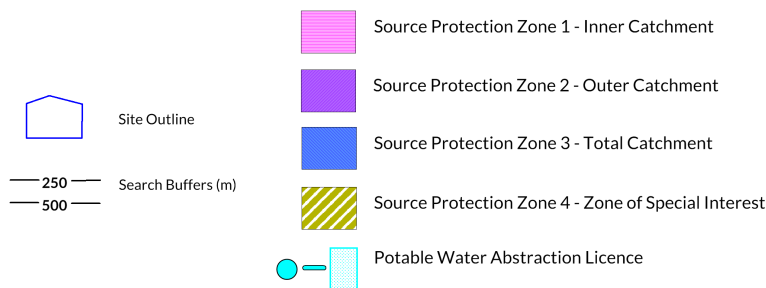
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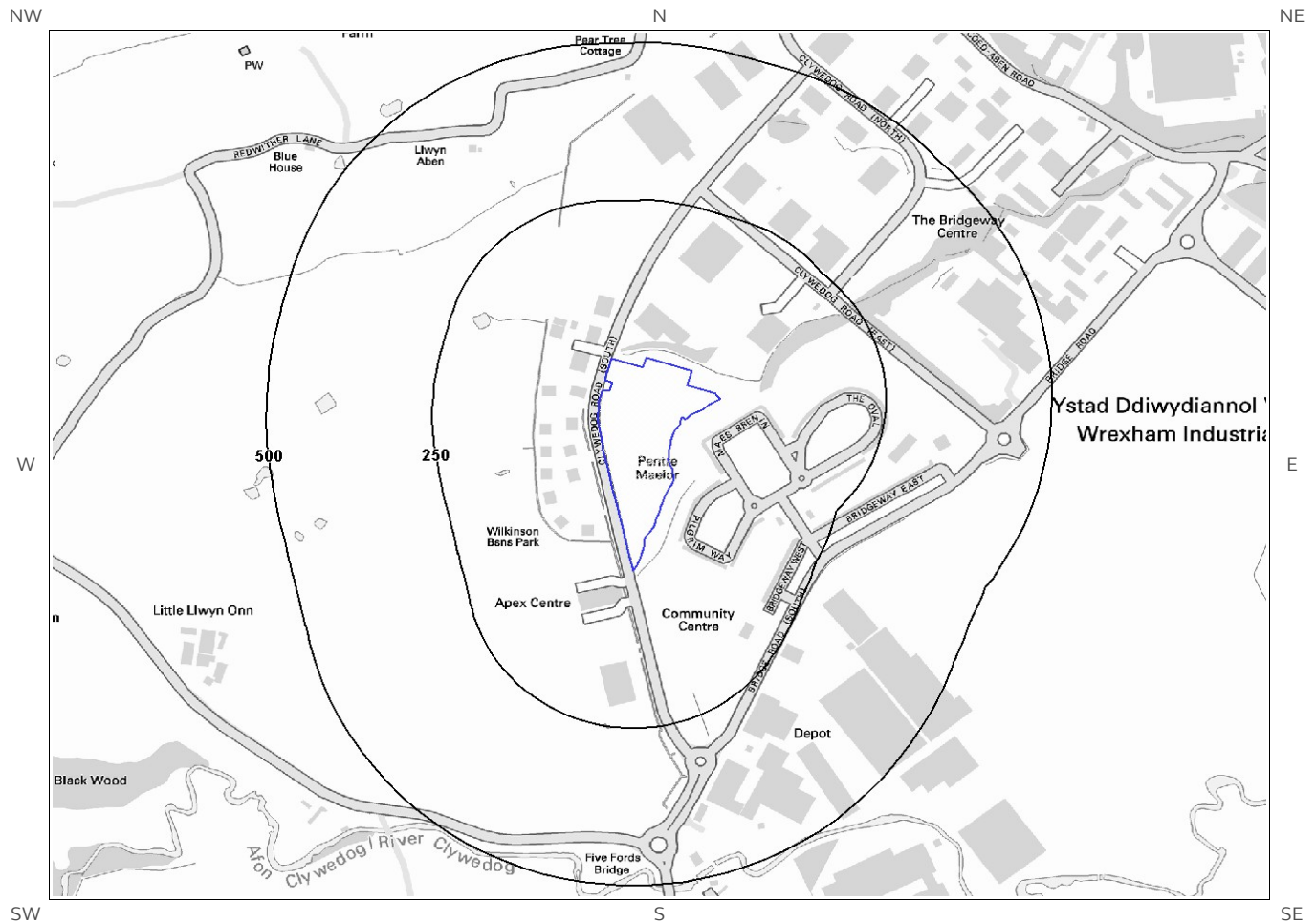
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences



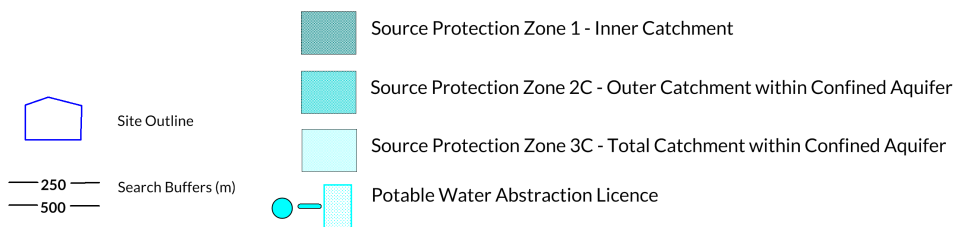
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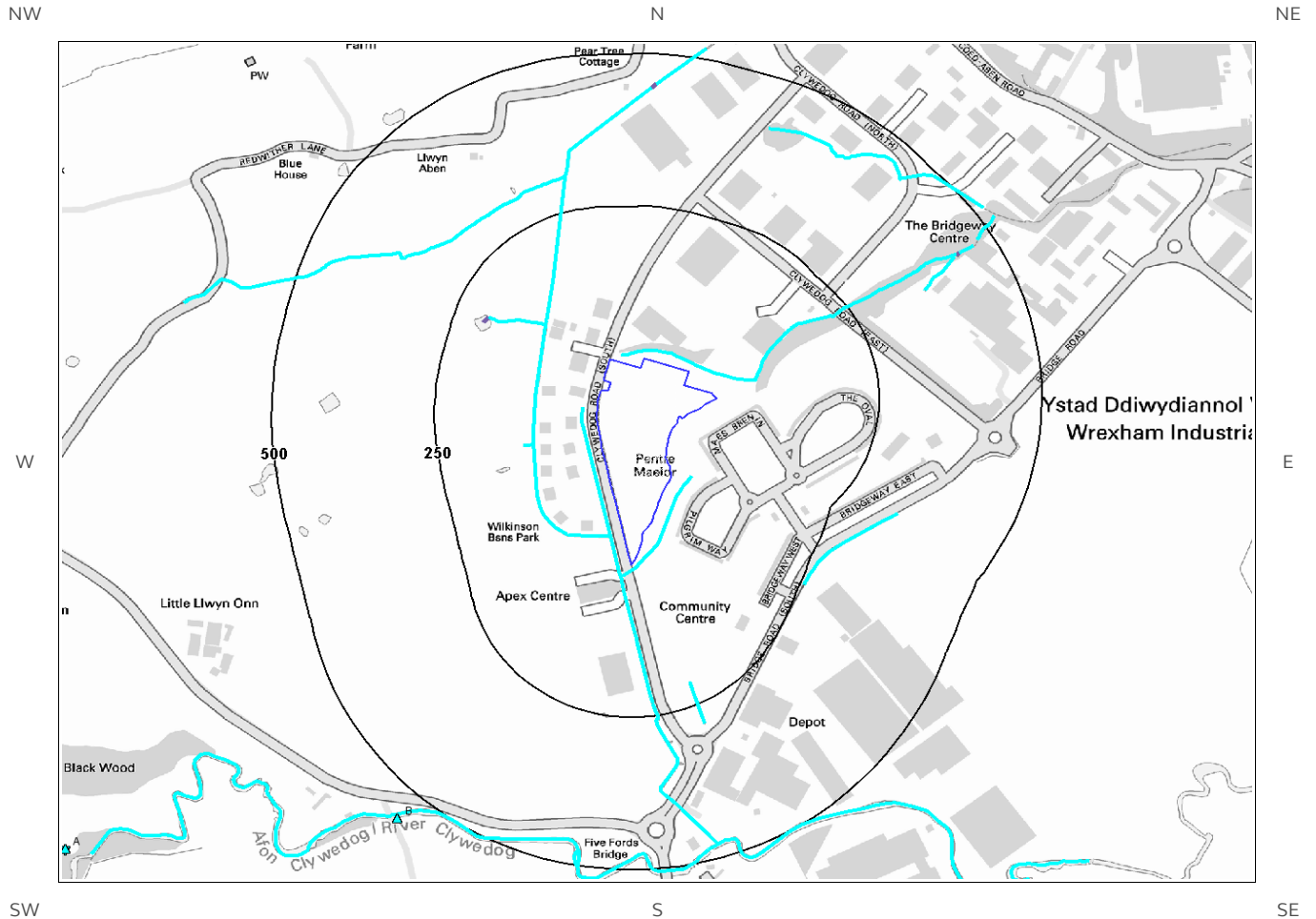
6d. Hydrogeology – Source Protection Zones within confined aquifer



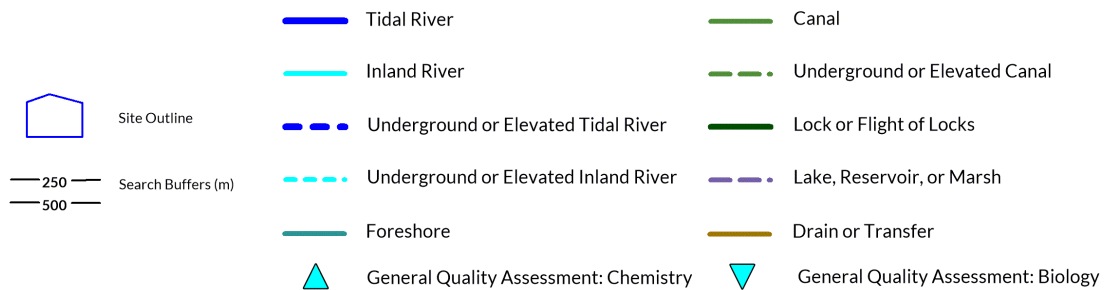
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6e. Hydrology – Watercourse Network and River Quality



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6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property Yes

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

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

ID	Distance (m)	Direction	Designation	Description
6	0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
1	42	SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
9	439	W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

6.2 Aquifer within Bedrock Deposits

Records of strata classification within the bedrock geology at or in proximity to the property Yes

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

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

ID	Distance (m)	Direction	Designation	Description
4	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
1	463	N	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site

Identified

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	1010	E	338190 348940	Status: Historical Licence No: 24/67/7/0213 Details: Process water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA. BOREHOLE AW1 Data Type: Point Name: Calypso Soft Drinks Ltd Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/09/1998 Expiry Date: 10/09/2001 Issue No: 100 Version Start Date: 10/09/1998 Version End Date:
Not shown	1010	E	338190 348940	Status: Historical Licence No: 24/67/7/0222 Details: Process Water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA. BOREHOLE AW1 Data Type: Point Name: Calypso Soft Drinks Ltd Annual Volume (m³): 131400 Max Daily Volume (m³): 600 Original Application No: - Original Start Date: 10/09/2001 Expiry Date: 31/03/2012 Issue No: 1 Version Start Date: 10/09/2001 Version End Date:
Not shown	1010	E	338190 348940	Status: Historical Licence No: WA/067/0007/006 Details: Process Water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA. BOREHOLE AW1 Data Type: Point Name: Calypso Soft Drinks Ltd Annual Volume (m³): 131400 Max Daily Volume (m³): 600 Original Application No: - Original Start Date: 01/04/2012 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 01/04/2012 Version End Date:
Not shown	1041	E	338240 349090	Status: Historical Licence No: 24/67/7/0213 Details: Process water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA., OB1 Data Type: Point Name: Calypso Soft Drinks Ltd Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/09/1998 Expiry Date: 10/09/2001 Issue No: 100 Version Start Date: 10/09/1998 Version End Date:
Not shown	1041	E	338240 349090	Status: Historical Licence No: 24/67/7/0222 Details: Process Water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA., OB1 Data Type: Point Name: Calypso Soft Drinks Ltd Annual Volume (m³): 131400 Max Daily Volume (m³): 600 Original Application No: - Original Start Date: 10/09/2001 Expiry Date: 31/03/2012 Issue No: 1 Version Start Date: 10/09/2001 Version End Date:
Not shown	1041	E	338240 349090	Status: Historical Licence No: WA/067/0007/006 Details: Process Water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA., OB1 Data Type: Point Name: Calypso Soft Drinks Ltd Annual Volume (m³): 131400 Max Daily Volume (m³): 600 Original Application No: - Original Start Date: 01/04/2012 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 01/04/2012 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1150	E	338350 349180	Status: Historical Licence No: WA/067/0007/006 Details: Process Water Direct Source: EAW Groundwater Point: SPECTRUM BUSINESS PARK BOREHOLE AW2 Data Type: Point Name: Calypso Soft Drinks Ltd Annual Volume (m³): 131400 Max Daily Volume (m³): 600 Original Application No: - Original Start Date: 01/04/2012 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 01/04/2012 Version End Date:
Not shown	1161	E	338360 349190	Status: Historical Licence No: 24/67/7/0222 Details: Process Water Direct Source: EAW Groundwater Point: 144 M DEEP, 200MM DIA BH AW2 Data Type: Point Name: Calypso Soft Drinks Ltd Annual Volume (m³): 131400 Max Daily Volume (m³): 600 Original Application No: - Original Start Date: 10/09/2001 Expiry Date: 31/03/2012 Issue No: 1 Version Start Date: 10/09/2001 Version End Date:
Not shown	1161	E	338360 349190	Status: Historical Licence No: 24/67/7/0213 Details: Process water Direct Source: EAW Groundwater Point: 144 M DEEP, 200MM DIA BH AW2 Data Type: Point Name: Calypso Soft Drinks Ltd Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/09/1998 Expiry Date: 10/09/2001 Issue No: 100 Version Start Date: 10/09/1998 Version End Date:

6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site Identified

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

ID	Distance (m)	Direction	NGR	Details
Not shown	1467	NE	337810 350500	Status: Historical Licence No: 24/67/7/0178 Details: Non-Evaporative Cooling Direct Source: EAW Surface Water Point: TRIBUTARY OF REDWITHER BROOK Data Type: Point Name: Caparo Wire Ltd Annual Volume (m³): 9955.74 Max Daily Volume (m³): 27.276 Application No: - Original Start Date: 12/05/1972 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date:

6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site None identified

Database searched and no data found.

6.6 Source Protection Zones

Source Protection Zones within 500m of the study site

Identified

The following Source Protection Zones records are represented on the SPZ and Potable Water Abstraction Map (6c):

ID	Distance (m)	Direction	Zone	Description
1A	461	N	3	Total catchment
2A	462	N	3	Total catchment

6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site

None identified

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

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site Identified

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.
83	W	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.
106	W	Minor Aquifer/High Leaching Potential	H1	Soils which readily transmit liquid discharges because they are shallow or susceptible to rapid flow directly to rock, gravel or groundwater.
490	S	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.
499	N	Major 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

Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site Identified

6.9.1 Biological Quality:

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

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

ID	Distance (m)	Direction	NGR	River Quality Grade	Biological Quality Grade				
					2005	2006	2007	2008	2009
53A	987	SW	336200 348400	River Name: Clywedog (dee) Reach: Conf.redwither Bk. - O/f Five Fords Stw End/Start of Stretch: Start of Stretch NGR	B	B	B	B	B
54A	987	SW	336200 348400	River Name: Clywedog (dee) Reach: O/f 5 Fords Stw-conf.gwenfro Kings Mill End/Start of Stretch: End of Stretch NGR	B	B	B	B	B

6.9.2 Chemical Quality:

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

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

ID	Distance (m)	Direction	NGR	River Quality Grade	Chemical Quality Grade				
					2005	2006	2007	2008	2009
55B	551	SW	336710 348450	River Name: Clywedog Reach: Conf.redwither Bk. - O/f Five Fords Stw End/Start of Stretch: Sample Point NGR	B	B	B	B	-
56B	551	SW	336710 348450	River Name: Clywedog Reach: O/f 5 Fords Stw-conf.gwenfro Kings Mill End/Start of Stretch: Sample Point NGR	B	B	B	B	-
57A	987	SW	336200 348400	River Name: Clywedog Reach: O/f 5 Fords Stw-conf.gwenfro Kings Mill End/Start of Stretch: End of Stretch NGR	B	B	B	B	-
58A	987	SW	336200 348400	River Name: Clywedog Reach: Conf.redwither Bk. - O/f Five Fords Stw End/Start of Stretch: Start of Stretch NGR	B	B	B	B	-

6.10 Ordnance Survey MasterMap Water Network

Ordnance Survey MasterMap Water Network entries within 500m of the study site

This watercourse information is provided by Ordnance Survey MasterMap Water Network. The data provides a detailed centre line following the curve of the waterway precisely, so all distances provided in the report should be understood as measurements to the centreline rather than a measurement to the nearest point of the watercourse. Underground watercourses are inferred from entry and exit points so caution is advised in using these to indicate precise locations of underground watercourses when planning site investigation and development.

The following Ordnance Survey MasterMap Water Network records are represented on the Hydrology Map (6e):

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
1	8 SE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
2	8 SE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
11	8 SE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
12	8 SE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
3	12 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
13	12 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
4	20 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.8
5	20 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
6	20 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
14	20 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.8
15	20 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
16	20 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
7	26 SW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
17	26 SW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
8	80 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
18	80 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
9	82 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
19	82 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
10	96 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
20	96 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
11	103 W	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
21	103	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	W			Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
12	112 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
22	112 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
13	114 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.3
14	114 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
23	114 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.3
24	114 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
15	116 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
25	116 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
16	123 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
26	123 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
17	126 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
27	126 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions)

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
				Average Width in Watercourse Section (m): 1.7
18	199 W	Not specified	Lake, loch or reservoir.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 12.8
28	199 W	Not specified	Lake, loch or reservoir.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 12.8
19	212 SE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
29	212 SE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
20	220 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
30	220 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
21	225 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
31	225 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
22	229 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.0
32	229 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.0
23	256 SE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
33	256 SE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
24	299 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
34	299 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
25	306 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	306 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
26	308 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
Not shown	308 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.9
27	353 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
37	353 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
28	356 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
38	356 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
29	359 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
30	359 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
39	359	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	NW			Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
40	359 NW	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
31	366 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
41	366 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
32	379 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	379 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
33	398 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	398 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
34	412 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
44	412 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
35	416 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	416 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
36	420 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions)

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
				Average Width in Watercourse Section (m): Not Provided
Not shown	420 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
37	438 NE	Not specified	Lake, loch or reservoir.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
47	438 NE	Not specified	Lake, loch or reservoir.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.7
38	443 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
48	443 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
39	444 N	Not specified	Lake, loch or reservoir.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	444 N	Not specified	Lake, loch or reservoir.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
40	445 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
50	445 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
41	450 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
42	450 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	450 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
Not shown	450 N	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
43	454 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	454 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
44	461 S	Afon Clywedog Alternative Name: River Clywedog	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 8.0
Not shown	461 S	Afon Clywedog Alternative Name: River Clywedog	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 8.0
45	474 S	Afon Clywedog Alternative Name: River Clywedog	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.4
Not shown	474 S	Afon Clywedog Alternative Name: River Clywedog	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.4
46	475 S	Afon Clywedog Alternative Name: River Clywedog	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.9
Not shown	475 S	Afon Clywedog Alternative Name: River Clywedog	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.9
47	476 S	Afon Clywedog Alternative Name: River Clywedog	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.4
48	476 S	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 3.4
Not shown	476 S	Afon Clywedog Alternative Name: River Clywedog	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.4
Not shown	476	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	S			Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 3.4
49	477 S	Afon Clywedog Alternative Name: River Clywedog	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 5.9
Not shown	477 S	Afon Clywedog Alternative Name: River Clywedog	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 5.9
50	479 S	Afon Clywedog Alternative Name: River Clywedog	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	479 S	Afon Clywedog Alternative Name: River Clywedog	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
51	489 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
61	489 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
52	493 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
62	493 NE	Not specified	Inland river not influenced by normal tidal action.	Catchment Area: Dee Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided

6.11 Surface Water Features

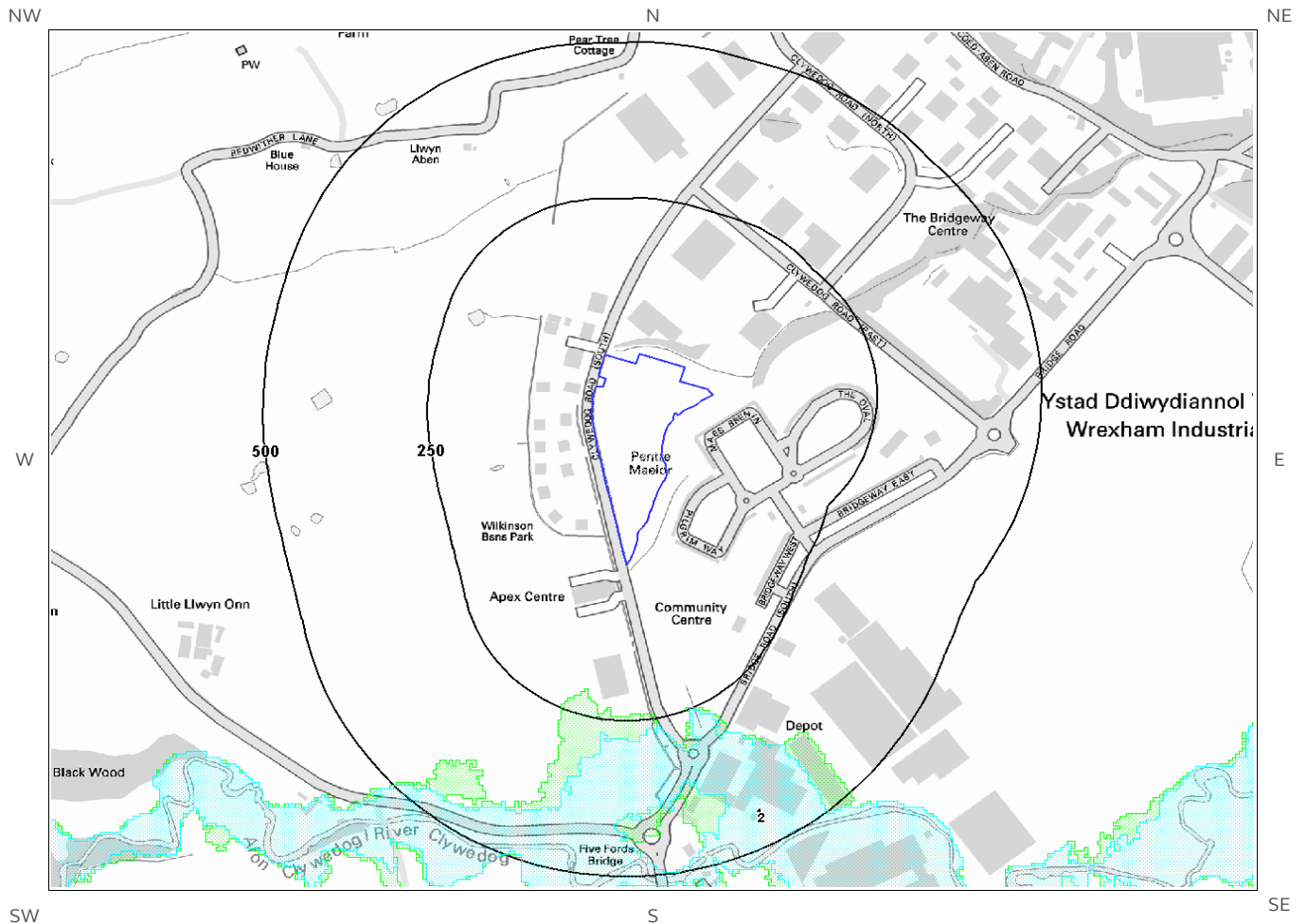
Surface water features within 250m of the study site

Identified

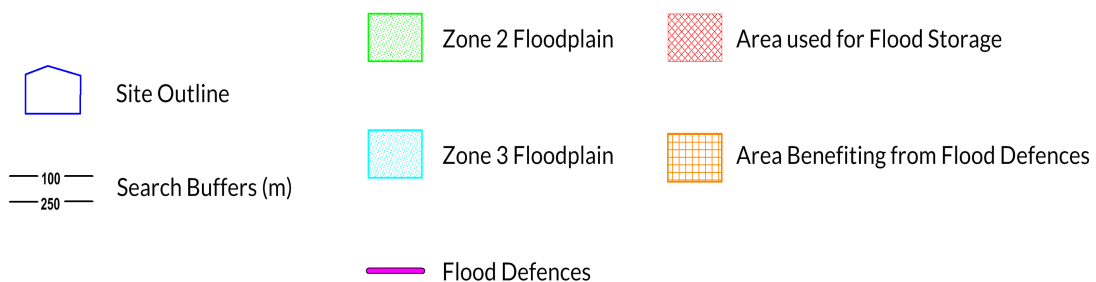
The following surface water records are not represented on mapping:

Distance (m)	Direction
9	SE
10	N
19	W
19	W
20	W
53	S
82	W
104	W
114	NW
115	NE
136	S
212	SE
248	NE

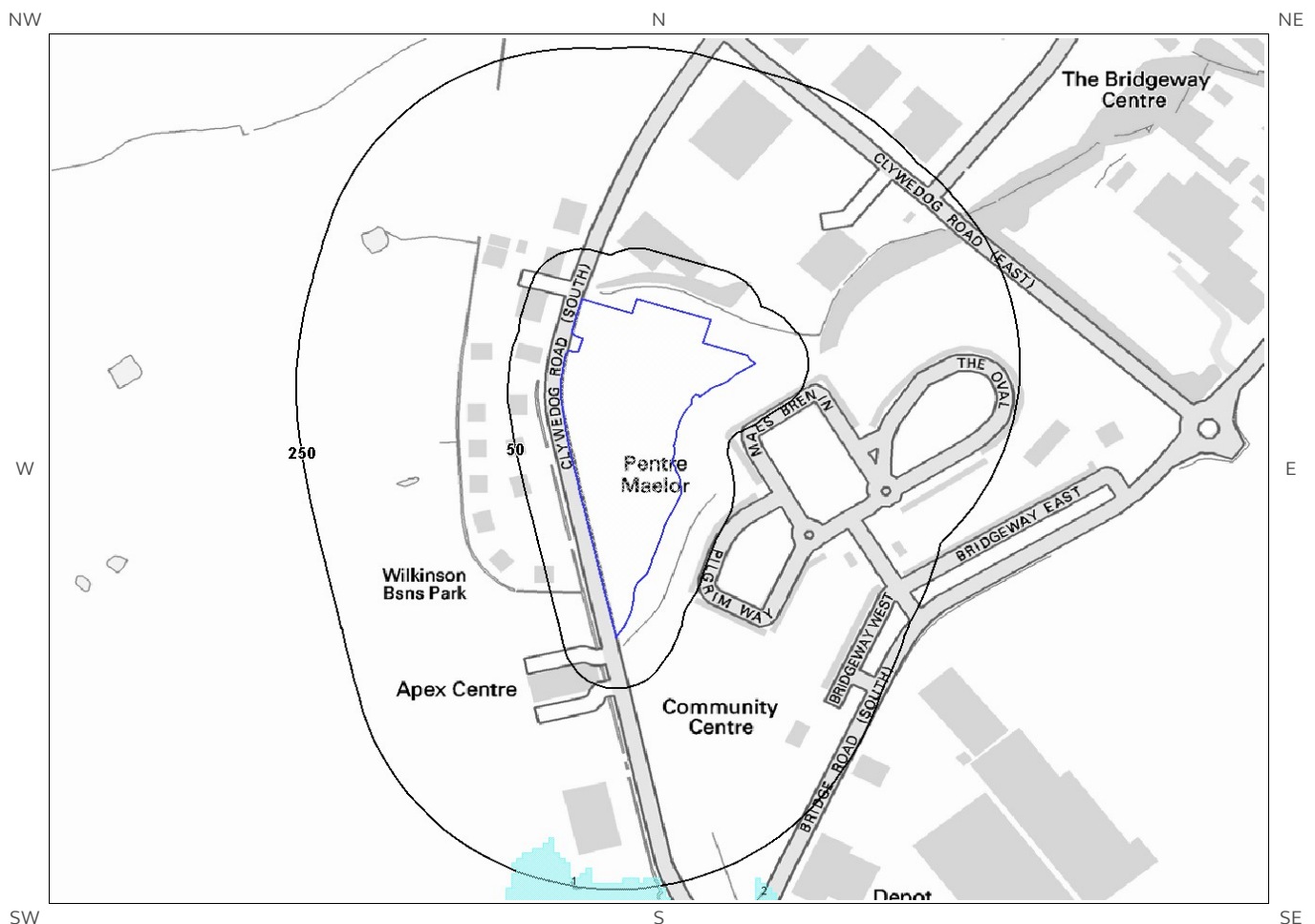
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



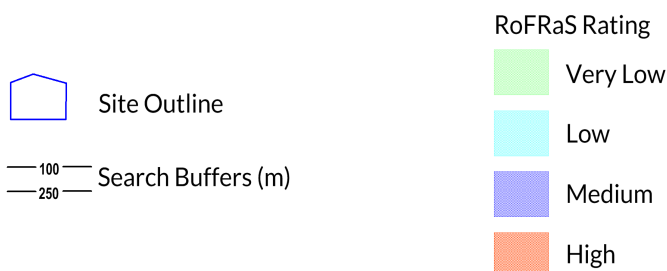
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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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7 Flooding

7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m

Identified

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

ID	Distance (m)	Direction	Update	Type
1	207	S	15-Oct-2018	Zone 2 - (Fluvial /Tidal Models)

7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m

Identified

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

ID	Distance (m)	Direction	Update	Type
1	248	SE	15-Oct-2018	Zone 3 - (Fluvial Models)

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

Highest risk of flooding onsite

Very Low

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

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

7.4 Flood Defences

Flood Defences within 250m of the study site None identified
Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Areas benefiting from Flood Defences within 250m of the study site None identified

7.6 Areas benefiting from Flood Storage

Areas used for Flood Storage within 250m of the study site None identified

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site Identified

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 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.

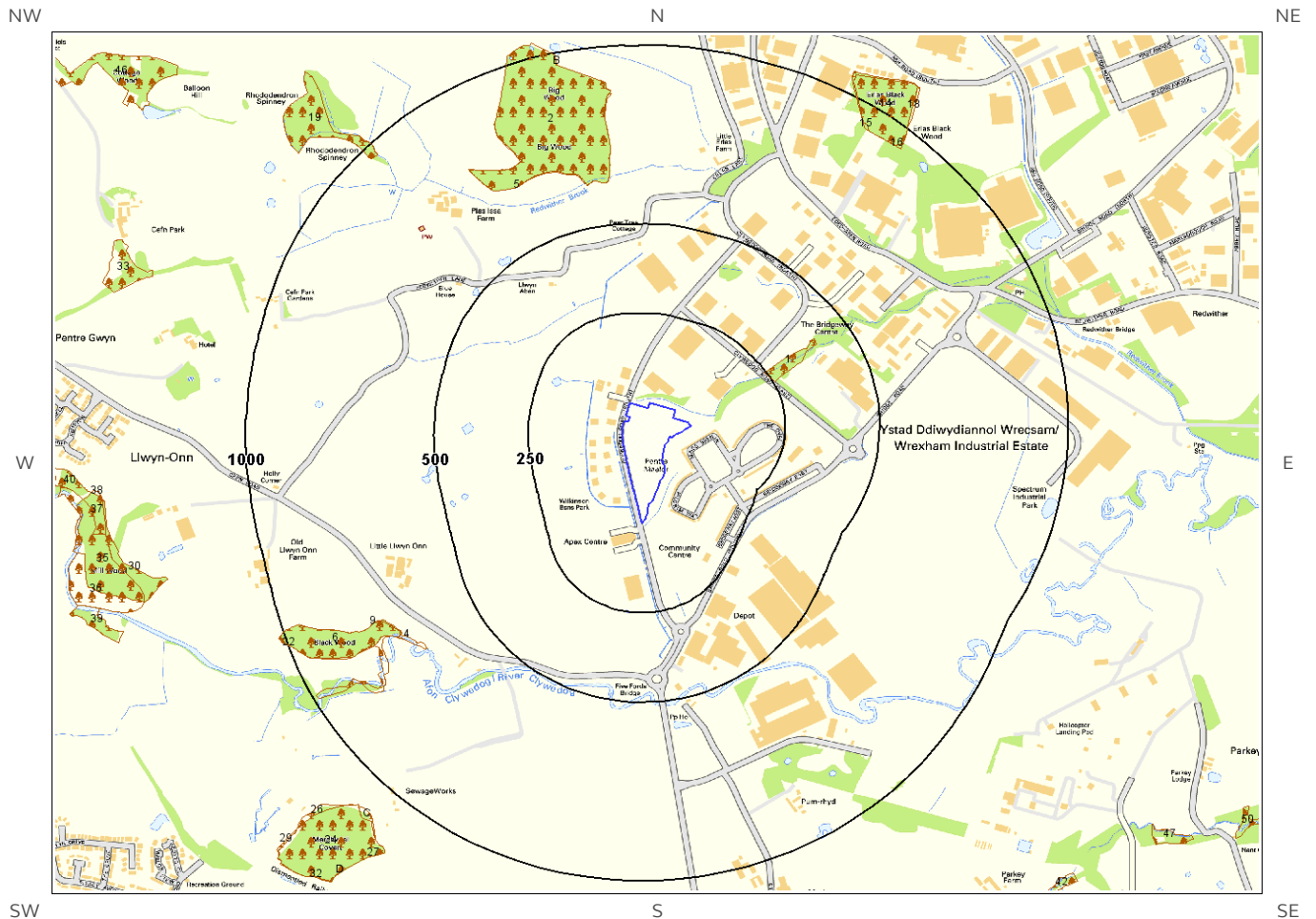
7.8 Groundwater Flooding Confidence Areas

British Geological Survey confidence rating in this result Moderate

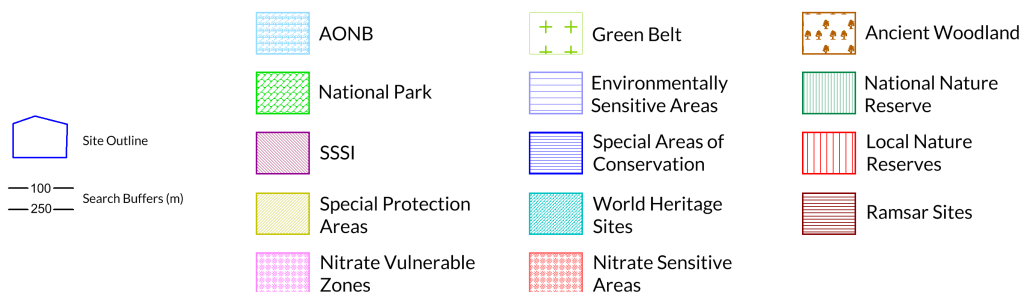
Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

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

8. Designated Environmentally Sensitive Sites Map



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8. Designated Environmentally Sensitive Sites

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

51

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
1	244	NE	Unknown	Ancient and Semi-Natural Woodland
2	620	N	Unknown	Ancient and Semi-Natural Woodland
3	626	N	BIG WOOD	Ancient Replanted Woodland
4	668	SW	Unknown	Ancient and Semi-Natural Woodland
5	674	NW	BIG WOOD	Ancient Replanted Woodland
6	711	SW	Unknown	Restored Ancient Woodland Site
7	732	NW	BIG WOOD	Ancient Replanted Woodland
8	733	SW	Unknown	Ancient and Semi-Natural Woodland
9	762	W	BLACK WOOD	Ancient and Semi-Natural Woodland
10	799	N	Unknown	Ancient and Semi-Natural Woodland
11	800	SW	BLACK WOOD	Ancient and Semi-Natural Woodland
12A	810	NW	Unknown	Ancient and Semi-Natural Woodland
13A	852	NW	Unknown	Ancient and Semi-Natural Woodland
14	934	NE	Unknown	Restored Ancient Woodland Site
15	935	NE	ERLAS BLACK WOOD	Ancient and Semi-Natural Woodland
16	936	NE	ERLAS BLACK WOOD	Ancient and Semi-Natural Woodland
17	949	NE	Unknown	Restored Ancient Woodland Site
18	961	NE	ERLAS BLACK WOOD	Ancient and Semi-Natural Woodland
19	965	NW	Unknown	Ancient and Semi-Natural Woodland
20B	966	N	Unknown	Ancient and Semi-Natural Woodland
21B	977	N	Unknown	Ancient and Semi-Natural Woodland
22	982	W	BLACK WOOD	Ancient and Semi-Natural Woodland
23C	1085	SW	MARCHWIEL COVERT	Ancient and Semi-Natural Woodland
24	1089	SW	Unknown	Ancient and Semi-Natural Woodland
25C	1096	SW	MARCHWIEL COVERT	Ancient and Semi-Natural Woodland
26	1111	SW	Unknown	Ancient and Semi-Natural Woodland
27	1165	SW	MARCHWIEL COVERT	Ancient and Semi-Natural Woodland
28D	1241	SW	MARCHWIEL COVERT	Ancient and Semi-Natural Woodland

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
29	1254	SW	MARCHWIEL COVERT	Ancient and Semi-Natural Woodland
30	1262	W	Unknown	Ancient and Semi-Natural Woodland
31D	1299	SW	MARCHWIEL COVERT	Ancient and Semi-Natural Woodland
32	1313	SW	MARCHWIEL COVERT	Ancient and Semi-Natural Woodland
33	1314	W	Unknown	Ancient and Semi-Natural Woodland
34	1330	SW	MARCHWIEL COVERT	Ancient and Semi-Natural Woodland
35	1332	W	Unknown	Ancient and Semi-Natural Woodland
36	1337	W	MILL WOOD	Ancient and Semi-Natural Woodland
37	1393	W	Unknown	Restored Ancient Woodland Site
38	1393	W	MILL WOOD	Ancient and Semi-Natural Woodland
39	1410	W	Unknown	Ancient and Semi-Natural Woodland
40	1417	W	Unknown	Restored Ancient Woodland Site
41	1443	W	Unknown	Ancient and Semi-Natural Woodland
42	1460	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1462	N	Unknown	Ancient and Semi-Natural Woodland
Not shown	1466	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1509	SE	Unknown	Restored Ancient Woodland Site
46	1514	NW	Unknown	Ancient and Semi-Natural Woodland
47	1592	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1704	W	Unknown	Ancient and Semi-Natural Woodland
Not shown	1770	N	Unknown	Restored Ancient Woodland Site
50	1780	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1981	NW	Unknown	Ancient and Semi-Natural Woodland

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

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

9.1.1 Shrink Swell

Maximum Shrink-Swell** hazard rating identified on the study site Very Low

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

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

9.1.2 Landslides

Maximum Landslide* hazard rating identified on the study site Very Low

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

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

9.1.3 Soluble Rocks

Maximum Soluble Rocks* hazard rating identified on the study site Negligible

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

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

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

9.1.4 Compressible Ground

Maximum Compressible Ground* hazard rating identified on the study site

Negligible

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

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

9.1.5 Collapsible Rocks

Maximum Collapsible Rocks* hazard rating identified on the study site

Very Low

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

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

9.1.6 Running Sand

Maximum Running Sand** hazard rating identified on the study site

Negligible

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

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

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

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The site is in a Radon Affected Area, as between 3 and 5% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

9.2.2 Radon Protection

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

10. Mining

10.1 Coal Mining

Coal mining areas within 75m of the study site

Identified

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

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

10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary

None identified

Database searched and no data found.

10.3 Brine Affected Areas

Brine affected areas within 75m of the study site

None identified

Guidance: No Guidance Required.

Contact Details

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

British Geological Survey Enquiries

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

Web: www.bgs.ac.uk

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

Natural Resources Wales

Ty Cambria
29 Newport Road
Cardiff
CF24 0TP
Tel: 0300 065 3000
Email: enquiries@naturalresourceswales.gov.uk

Public Health England

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

The Coal Authority

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

Ordnance Survey

Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505

Local Authority

Authority: Wrexham - Wrexham County Borough Council
Phone: 01978 292 000
Web: <http://www.wrexham.gov.uk/>
Address: The Guildhall, Wrexham, Wrexham, LL11 1AY



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