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Blackpool, FY4 4DW

Groundsure Reference: GS-5913570
Your Reference: PWA_Panning_Ltd
Report Date 29 Mar 2019
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Enviro Insight

Address: FOXHILL FARM, FOXHILL LANE, HALEWOOD, L26 4XG

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: FOXHILL FARM, FOXHILL LANE, HALEWOOD, L26 4XG

Date: 29 Mar 2019

Reference: GS-5913570

Client: Martin Environmental Solutions



Aerial Photograph Capture date: 21-Apr-2016

Grid Reference: 345097,386843

Site Size: 0.8764ha

Report Reference: GS-5913570

Client Reference: PWA_Panning_Ltd

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Overview of Findings

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

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	0	0	0	2
1.2 Additional Information – Historical Tank Database	2	0	1	1
1.3 Additional Information – Historical Energy Features Database	0	0	0	3
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	0	0	0	0
1.7 Potentially Infilled Land	0	1	16	8
Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	0	0
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	1	0	0	9
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	0	0
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	0	0	9	5
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	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	0	3

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	0	0	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	None 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	2	11
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	4
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	2	7
6.6 Source Protection Zones (within 500m of the study site)	1	0	1	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	1	2	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	Yes	Yes	Yes
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	0	4	26	64	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	Limited potential					
7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas	Low					

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	0	0	0	0
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	1	0	0	0	0	0
8.14 Records of Green Belt land	1	0	0	1	1	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	Very Low
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.
9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	No radon protective measures are necessary.

Section 10: Mining	
10.1 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).

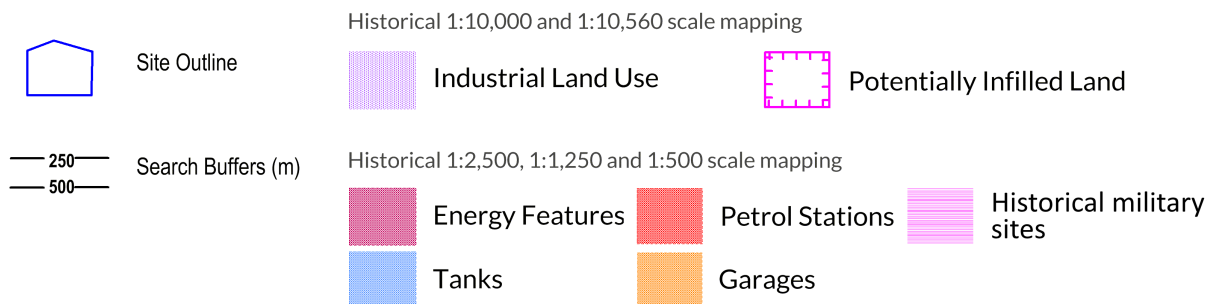
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

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: 2

ID	Distance [m]	Direction	Use	Date
1	460	S	Brewery	1891
2	474	S	Brewery	1851

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: 4

ID	Distance (m)	Direction	Use	Date
3	0	On Site	Unspecified Tank	1989
4	0	On Site	Unspecified Tank	1989
5B	175	E	Unspecified Tank	1938
6	482	S	Unspecified Tank	1893

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: 3

ID	Distance (m)	Direction	Use	Date
7	283	SE	Electricity Substation	1989
8	316	SE	Electricity Substation	1989
9	463	S	Electricity Substation	1998

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: 0

Database searched and no data found.

1.7 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 25

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

ID	Distance(m)	Direction	Use	Date
10	7	NW	Ponds	1891
11A	63	SE	Pond	1967
12A	63	SE	Ponds	1950
13A	67	SE	Ponds	1938
14A	73	SE	Pond	1925
15A	73	SE	Pond	1904
16A	73	SE	Pond	1891
17A	75	SE	Pond	1851
18B	180	E	Pond	1938
19C	207	NW	Pond	1980
20C	207	NW	Pond	1967
21C	207	NW	Pond	1974

22D	244	W	Pond	1955
23D	246	W	Pond	1851
24D	248	W	Pond	1891
25D	249	W	Pond	1938
26D	249	W	Pond	1925
27E	339	N	Ponds	1989
28E	339	N	Ponds	1975
29E	339	N	Ponds	1967
30	424	S	Pond	1851
31F	464	NW	Pond	1891
32F	464	NW	Pond	1925
33F	464	NW	Pond	1904
34	493	SE	Pond	1851

2. Environmental Permits, Incidents and Registers Map



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

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

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

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

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

10

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

ID	Distance (m)	Direction	NGR	Details
1	0	SW	345123 386803	Address: FOXHILL FARM, FOXHILL LANE, HALEWOOD, LIVERPOOL, L26 4XG Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: NPSWQD001637 Permit Version: 1 Receiving Water: DITCH LDNG TO NETHERLEY BROOK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 29/04/2008 Effective Date: 29-Apr-2008 Revocation Date: -
2A	458	N	345010 387370	Address: WOOLTON STW, HALEWOOD ROAD, GATEACRE, MERSEYSIDE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016930122 Permit Version: 5 Receiving Water: HALEWOOD BROOK Status: CONSENT CURRENTLY UNDER APPEAL Issue date: 28/06/2005 Effective Date: 28-Jun-2005 Revocation Date: 31/12/2009
3A	458	N	345010 387370	Address: WOOLTON STW, HALEWOOD ROAD, GATEACRE, MERSEYSIDE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016930122 Permit Version: 5 Receiving Water: HALEWOOD BROOK Status: CONSENT CURRENTLY UNDER APPEAL Issue date: 28/06/2005 Effective Date: 28-Jun-2005 Revocation Date: 31/12/2009
4A	458	N	345010 387370	Address: WOOLTON STW, HALEWOOD ROAD, GATEACRE, MERSEYSIDE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016930122 Permit Version: 5 Receiving Water: HALEWOOD BROOK Status: CONSENT CURRENTLY UNDER APPEAL Issue date: 28/06/2005 Effective Date: 28-Jun-2005 Revocation Date: 31/12/2009
5A	458	N	345010 387370	Address: WOOLTON STW, HALEWOOD ROAD, GATEACRE, MERSEYSIDE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016930122 Permit Version: 6 Receiving Water: HALEWOOD BROOK Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01-Jan-2010 Revocation Date: 03/01/2011
6A	458	N	345010	Address: WOOLTON STW, HALEWOOD Receiving Water: HALEWOOD BROOK

ID	Distance (m)	Direction	NGR	Details
			387370	ROAD, GATEACRE, MERSEYSIDE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016930122 Permit Version: 6 Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01-Jan-2010 Revocation Date: 03/01/2011
7A	458	N	345010 387370	Address: WOOLTON STW, HALEWOOD ROAD, GATEACRE, MERSEYSIDE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016930122 Permit Version: 6 Receiving Water: HALEWOOD BROOK Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01-Jan-2010 Revocation Date: 03/01/2011
8A	458	N	345010 387370	Address: WOOLTON STW, HALEWOOD ROAD, GATEACRE, MERSEYSIDE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016930122 Permit Version: 7 Receiving Water: HALEWOOD BROOK Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 04/01/2011 Effective Date: 04-Jan-2011 Revocation Date: -
9A	458	N	345010 387370	Address: WOOLTON STW, HALEWOOD ROAD, GATEACRE, MERSEYSIDE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016930122 Permit Version: 7 Receiving Water: HALEWOOD BROOK Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 04/01/2011 Effective Date: 04-Jan-2011 Revocation Date: -
10A	458	N	345010 387370	Address: WOOLTON STW, HALEWOOD ROAD, GATEACRE, MERSEYSIDE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016930122 Permit Version: 7 Receiving Water: HALEWOOD BROOK Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 04/01/2011 Effective Date: 04-Jan-2011 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:

0

Database searched and no data found.

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

0

Database searched and no data found.

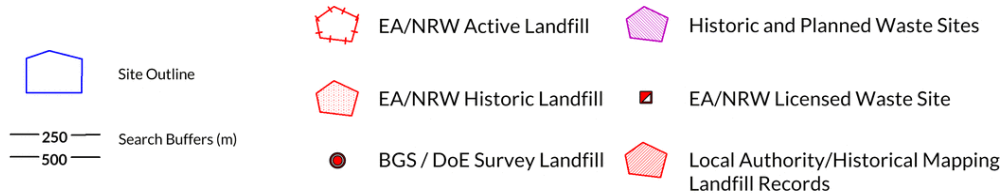
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

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

0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



3. Landfill and Other Waste Sites

3.1 Landfill Sites

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

0

Database searched and no data found.

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

14

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
1	666	E	Site Address: Green's Bridge Farm, Netherley Road, Tarbock, Merseyside Waste Licence: Yes Site Reference: GDO M016,116/01,16927, 120 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 20-Oct-1982 Licence Surrendered: Licence Holder Address: 83 Haileybury Road, Liverpool 25 Operator: W F Doyle and Company Limited Licence Holder: W F Doyle and Company Limited First Recorded: 01-Oct-1982 Last Recorded: 01-Feb-1983
2	679	E	Site Address: Green's Bridge Farm, Netherley Road, Tarbock, Merseyside Waste Licence: Yes Site Reference: GDO M016,116/01,16927, 120 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 20-Oct-1982 Licence Surrendered: Licence Holder Address: 83 Haileybury Road, Liverpool 25 Operator: W F Doyle and Company Limited Licence Holder: W F Doyle and Company Limited First Recorded: 01-Oct-1982 Last Recorded: 01-Feb-1983
3	690	E	Site Address: Green's Bridge Farm, Netherley Road, Tarbock, Merseyside Waste Licence: Yes Site Reference: GDO M016,116/01,16927, 120 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 20-Oct-1982 Licence Surrendered: Licence Holder Address: 83 Haileybury Road, Liverpool 25 Operator: W F Doyle and Company Limited Licence Holder: W F Doyle and Company Limited First Recorded: 01-Oct-1982 Last Recorded: 01-Feb-1983
Not	787	E	Site Address: Green's Bridge Farm,	Licence Issue: 20-Oct-1982

ID	Distance (m)	Direction	NGR	Details
shown				Netherley Road, Tarbock, Merseyside Waste Licence: Yes Site Reference: GDO M016,116/01,16927, 120 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Surrendered: Licence Holder Address: 83 Haileybury Road, Liverpool 25 Operator: W F Doyle and Company Limited Licence Holder: W F Doyle and Company Limited First Recorded: 01-Oct-1982 Last Recorded: 01-Feb-1983
Not shown	803	E		Site Address: Green's Bridge Farm, Netherley Road, Tarbock, Merseyside Waste Licence: Yes Site Reference: GDO M016,116/01,16927, 120 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 20-Oct-1982 Licence Surrendered: Licence Holder Address: 83 Haileybury Road, Liverpool 25 Operator: W F Doyle and Company Limited Licence Holder: W F Doyle and Company Limited First Recorded: 01-Oct-1982 Last Recorded: 01-Feb-1983
Not shown	828	E		Site Address: Green's Bridge Farm, Netherley Road, Tarbock, Merseyside Waste Licence: Yes Site Reference: GDO M016,116/01,16927, 120 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 20-Oct-1982 Licence Surrendered: Licence Holder Address: 83 Haileybury Road, Liverpool 25 Operator: W F Doyle and Company Limited Licence Holder: W F Doyle and Company Limited First Recorded: 01-Oct-1982 Last Recorded: 01-Feb-1983
Not shown	852	NW		Site Address: Lee Park Golf Course, Childwall Valley Road, Liverpool, Merseyside Waste Licence: - Site Reference: 163/02, GDO M168 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not shown	987	E		Site Address: Green's Bridge Farm, Netherley Road, Tarbock, Merseyside Waste Licence: Yes Site Reference: GDO M016,116/01,16927, 120 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 20-Oct-1982 Licence Surrendered: Licence Holder Address: 83 Haileybury Road, Liverpool 25 Operator: W F Doyle and Company Limited Licence Holder: W F Doyle and Company Limited First Recorded: 01-Oct-1982 Last Recorded: 01-Feb-1983
Not shown	999	E		Site Address: Green's Bridge Farm, Netherley Road, Tarbock, Merseyside Waste Licence: Yes Site Reference: GDO M016,116/01,16927, 120 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 20-Oct-1982 Licence Surrendered: Licence Holder Address: 83 Haileybury Road, Liverpool 25 Operator: W F Doyle and Company Limited Licence Holder: W F Doyle and Company Limited First Recorded: 01-Oct-1982 Last Recorded: 01-Feb-1983
Not shown	1006	E		Site Address: Green's Bridge Farm, Netherley Road, Tarbock, Merseyside Waste Licence: Yes Site Reference: GDO M016,116/01,16927, 120 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 20-Oct-1982 Licence Surrendered: Licence Holder Address: 83 Haileybury Road, Liverpool 25 Operator: W F Doyle and Company Limited Licence Holder: W F Doyle and Company Limited

ID	Distance (m)	Direction	NGR	Details
				First Recorded: 01-Oct-1982 Last Recorded: 01-Feb-1983
Not shown	1221	E	Site Address: Green's Bridge Farm, Netherley Road, Tarbock, Merseyside Waste Licence: Yes Site Reference: GDO M016,116/01,16927, 120 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 20-Oct-1982 Licence Surrendered: Licence Holder Address: 83 Haileybury Road, Liverpool 25 Operator: W F Doyle and Company Limited Licence Holder: W F Doyle and Company Limited First Recorded: 01-Oct-1982 Last Recorded: 01-Feb-1983
Not shown	1271	E	Site Address: Green's Bridge Farm, Netherley Road, Tarbock, Merseyside Waste Licence: Yes Site Reference: GDO M016,116/01,16927, 120 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 20-Oct-1982 Licence Surrendered: Licence Holder Address: 83 Haileybury Road, Liverpool 25 Operator: W F Doyle and Company Limited Licence Holder: W F Doyle and Company Limited First Recorded: 01-Oct-1982 Last Recorded: 01-Feb-1983
Not shown	1314	W	Site Address: Sewage Works, Woolton Waste Licence: - Site Reference: - Waste Type: Liquid sludge Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not shown	1413	E	Site Address: Green's Bridge Farm, Netherley Road, Tarbock, Merseyside Waste Licence: Yes Site Reference: GDO M016,116/01,16927, 120 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 20-Oct-1982 Licence Surrendered: Licence Holder Address: 83 Haileybury Road, Liverpool 25 Operator: W F Doyle and Company Limited Licence Holder: W F Doyle and Company Limited First Recorded: 01-Oct-1982 Last Recorded: 01-Feb-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.

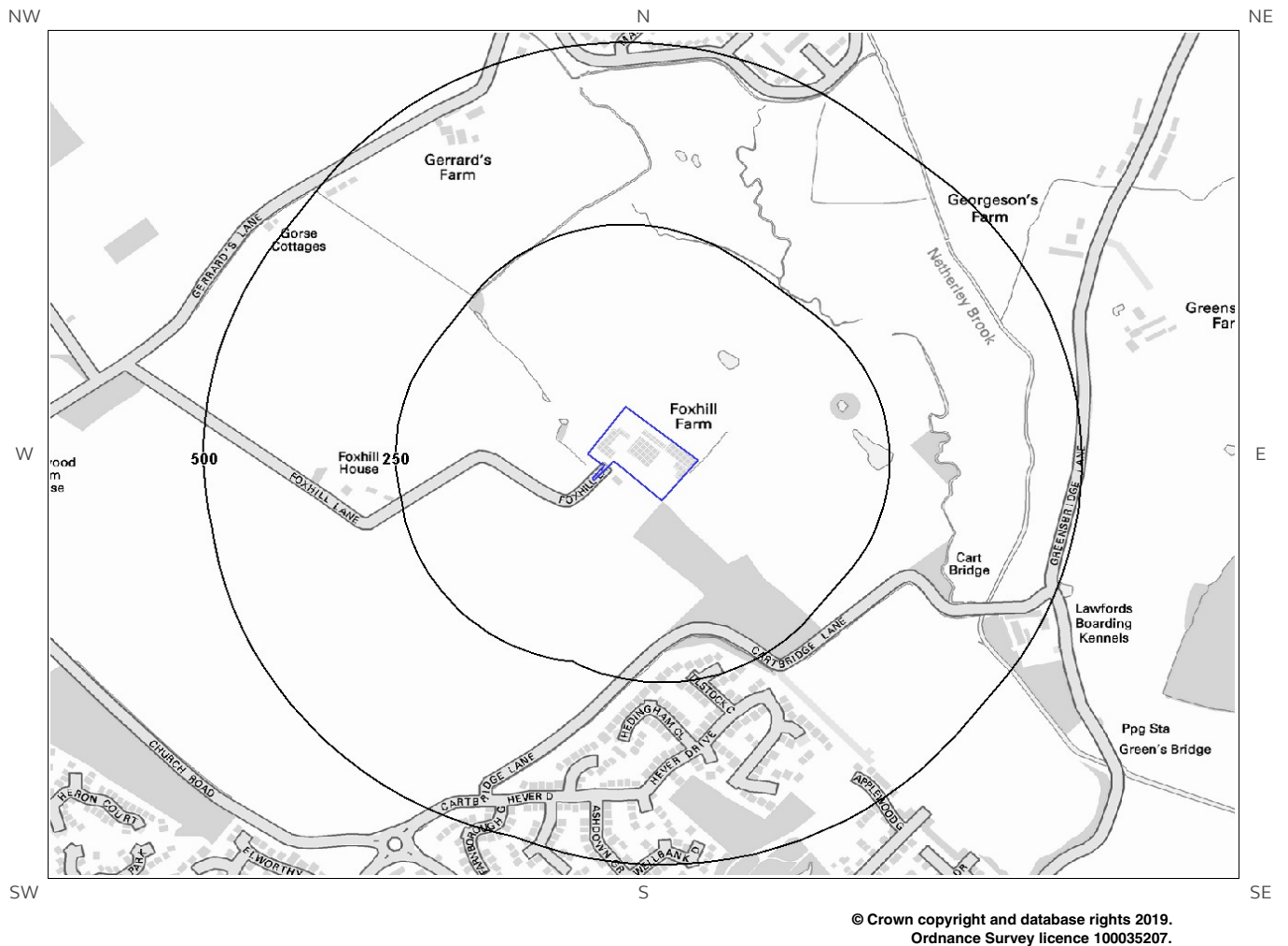
3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

3

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	1361	NE	346341 387565	Site Address: Tarbock Green Nurseries, Netherley Road, Tarbock, Prescot, Merseyside, L35 1QE Type: Composting Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BCL002 EPR reference: EA/EPR/WP3698CA/V003 Operator: Eric Langton And Janet Langton Waste Management licence No: 50087 Annual Tonnage: 5000.0 Issue Date: 05/07/2002 Effective Date: - Modified: 05/11/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Tarbock Green Nurseries Correspondence Address: -
Not shown	1445	NE	346347 387705	Site Address: Tarbock Green Nurseries, Netherley Road, Tarbock, Prescot, Merseyside, L35 1QE Type: Composting Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BCL002 EPR reference: EA/EPR/WP3698CA/A001 Operator: Langton Eric And Janet Waste Management licence No: 50087 Annual Tonnage: 5000.0 Issue Date: 05/07/2002 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Tarbock Green Nurseries Correspondence Address: -
Not shown	1485	NE	346400 387700	Site Address: Oaklands, Netherley Road, Tarbock Green, Prescot, Merseyside, L35 1QE Type: Composting Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LAN005 EPR reference: EA/EPR/DP3196CT/A001 Operator: Mr & Mrs Langton Waste Management licence No: 53872 Annual Tonnage: 208.0 Issue Date: 17/01/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: Tarbock Green Nurseries Correspondence Address: -

4. Current Land Use Map



4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site:	0
Database searched and no data found.	

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site:	0
Database searched and no data found.	

4.3 National Grid High Voltage Underground Electricity Transmission Cables

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

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site:	0
Database searched and no data found.	

4.4 National Grid High Pressure Gas Transmission Pipelines

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

Records of National Grid high pressure gas transmission pipelines within 500m of the study site:	0
Database searched and no data found.	

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

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

5.2 Superficial Ground and Drift Geology

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

Lex Code	Description	Rock Type
TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

5.3 Bedrock and Solid Geology

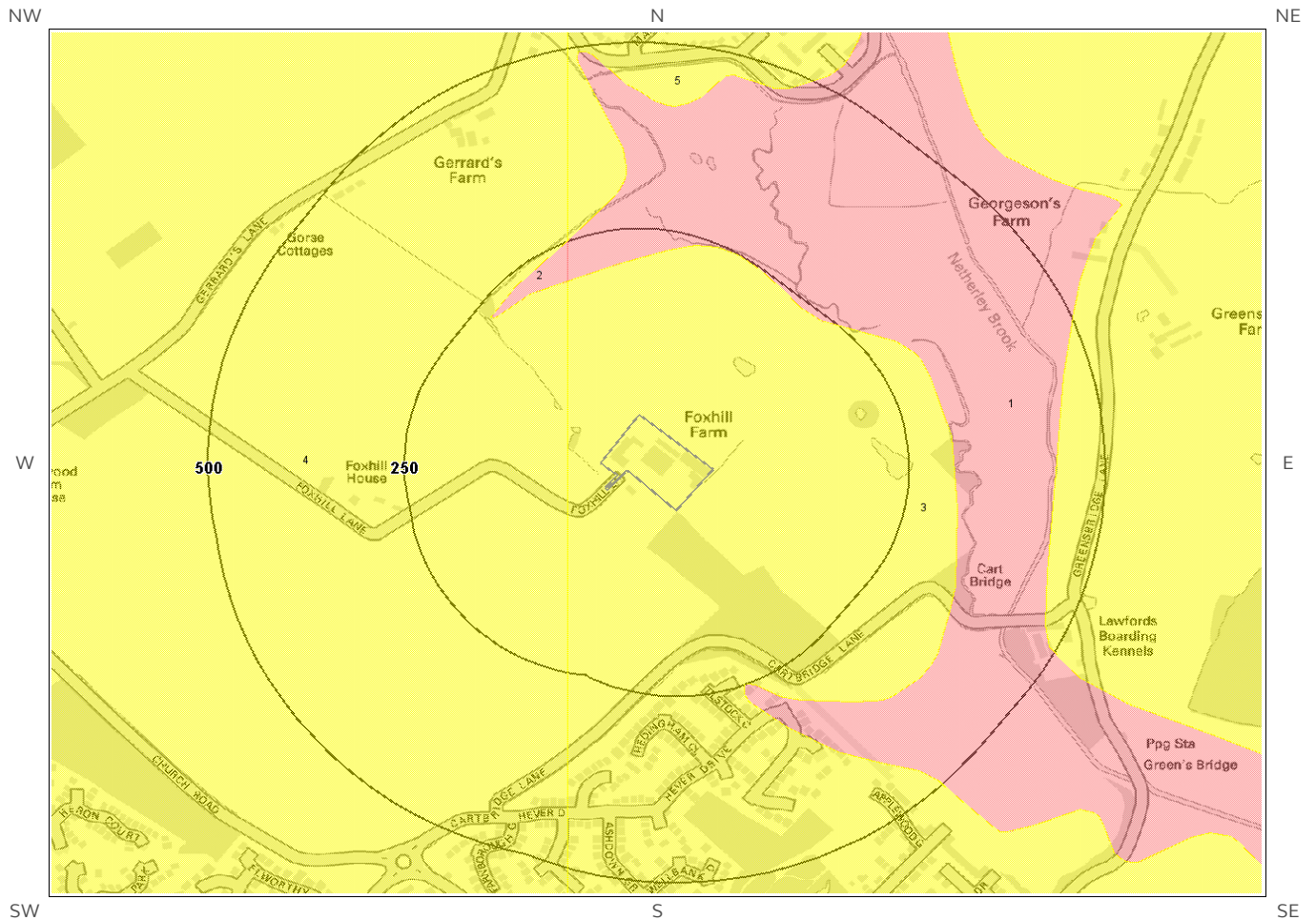
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
WLSF-SDST	WILMSLOW SANDSTONE FORMATION	SANDSTONE

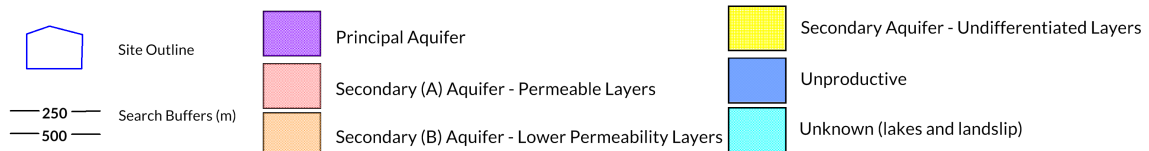
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

6a. Aquifer Within Superficial Geology



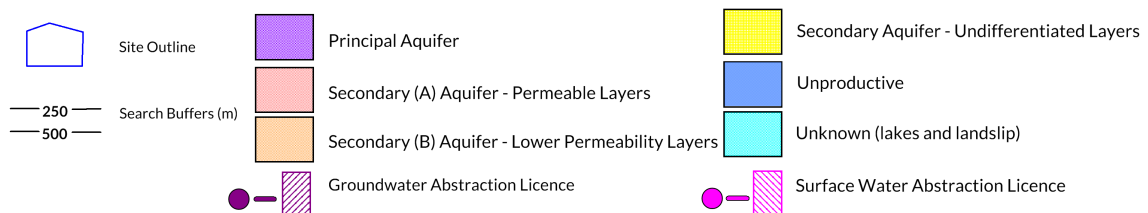
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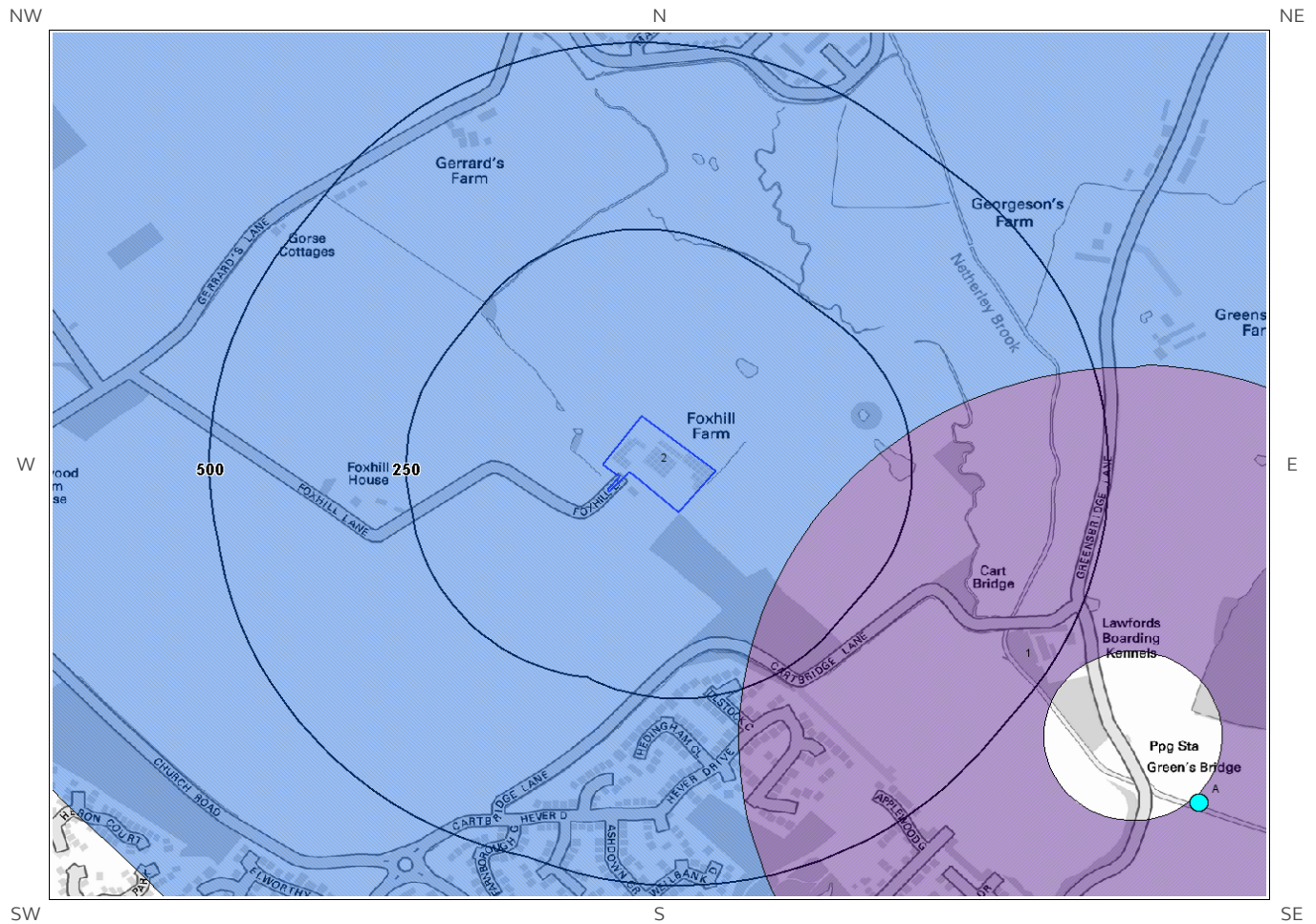
6b. Aquifer Within Bedrock Geology and Abstraction Licences



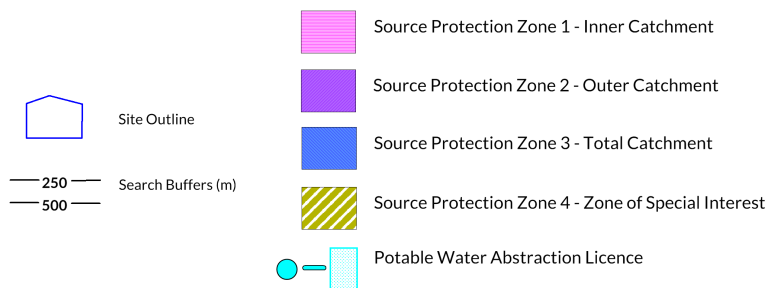
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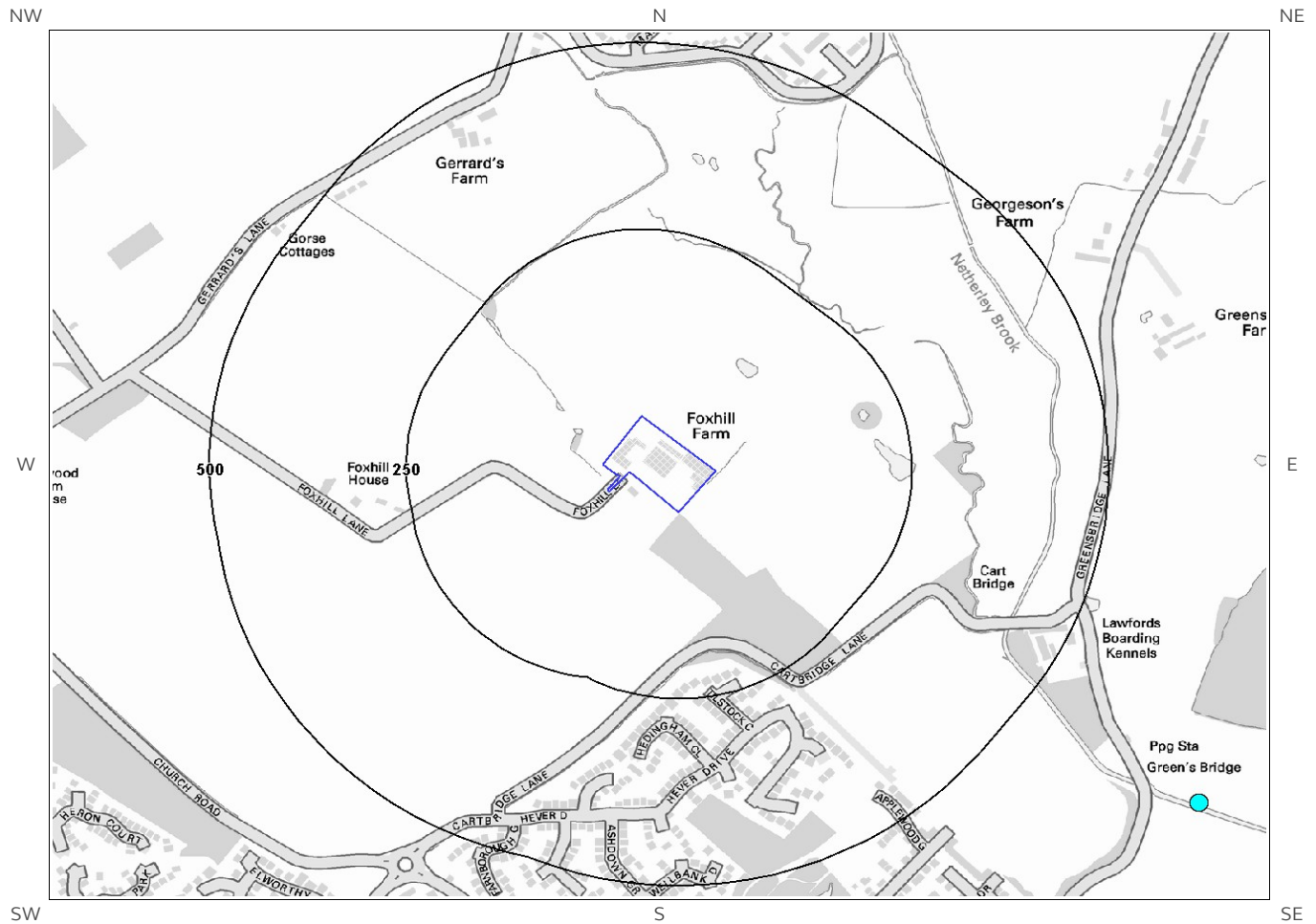
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences



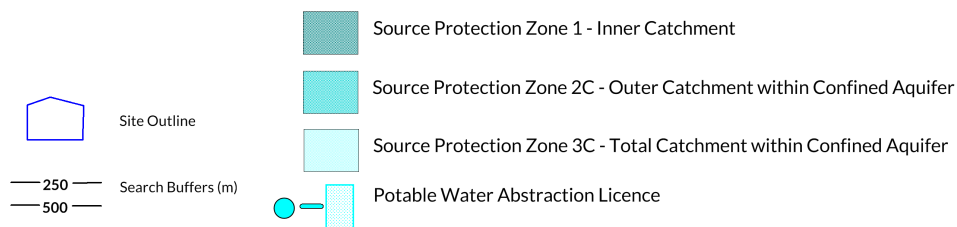
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6d. Hydrogeology – Source Protection Zones within confined aquifer



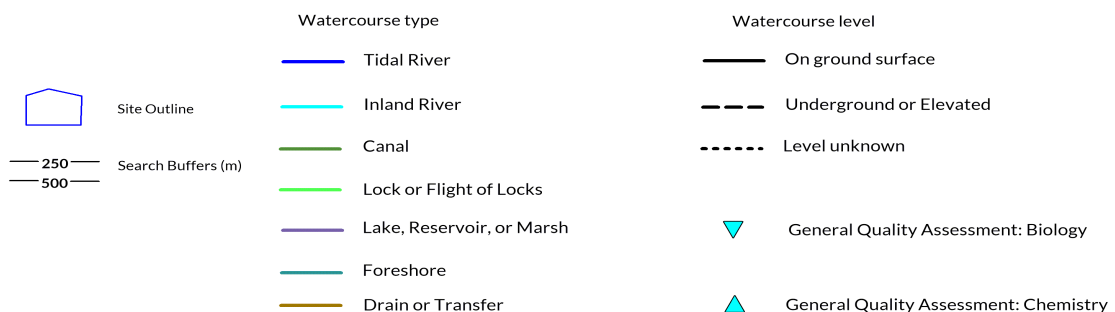
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6e. Hydrology – Watercourse Network and River Quality



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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
3	0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	42	W	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	200	N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	201	NW	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
5	252	N	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

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
1	0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	42	W	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
4A	759	SE	345800 386400	Status: Historical Licence No: 2569028014 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) AT GREENSBIDGE LANE PUMPING STATION, WHISTON" Data Type: Point Name: UNITED UTILITIES WATER PLC Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date:
5A	759	SE	345800 386400	Status: Active Licence No: 2569028014 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT GREENSBIDGE LANE PUMPING STATION, WHISTON Data Type: Point Name: UNITED UTILITIES WATER LTD Annual Volume (m³): 1.5e+006 Max Daily Volume (m³): 11400 Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date:
Not shown	1372	N	344600 388200	Status: Historical Licence No: 2569028012 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (3) AT NETHERLEY PUMPING STATION, LIVERPOOL" Data Type: Point Name: UNITED UTILITIES WATER PLC Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date:
Not shown	1372	N	344600 388200	Status: Historical Licence No: 2569028012 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (3) AT NETHERLEY PUMPING STATION, LIVERPOOL Data Type: Point Name: UNITED UTILITIES WATER PLC Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date:
Not shown	1372	N	344600 388200	Status: Active Licence No: 2569028012 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES X 3 AT NETHERLEY PUMPING STATION LIVERPOOL Data Type: Point Name: UNITED UTILITIES WATER LTD Annual Volume (m³): 4.127e+006 Max Daily Volume (m³): 11400 Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date:
Not shown	1672	NW	343730 387890	Status: Historical Licence No: 2569028022 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT LEE PARK GOLF CLUB, GATEACRE, LIVERPOOL" Data Type: Point Name: LEE PARK GOLF CLUB Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/02/1997 Expiry Date: - Issue No: 100 Version Start Date: 21/02/1997 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1672	NW	343730 387890	Status: Historical Licence No: 2569028022 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLE AT LEE PARK GOLF CLUB, GATEACRE, LIVERPOOL" Data Type: Point Name: LEE PARK GOLF CLUB	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/02/1997 Expiry Date: - Issue No: 100 Version Start Date: 21/02/1997 Version End Date:
Not shown	1672	NW	343730 387890	Status: Active Licence No: 2569028022 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT LEE PARK GOLF CLUB, GATEACRE, LIVERPOOL Data Type: Point Name: LEE PARK GOLF CLUB LTD (THE)	Annual Volume (m³): 13829.6 Max Daily Volume (m³): 92.27 Original Application No: - Original Start Date: 21/02/1997 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date:
Not shown	1672	NW	343730 387890	Status: Active Licence No: 2569028022 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT LEE PARK GOLF CLUB, GATEACRE, LIVERPOOL Data Type: Point Name: LEE PARK GOLF CLUB LTD (THE)	Annual Volume (m³): 13829.6 Max Daily Volume (m³): 92.27 Original Application No: - Original Start Date: 21/02/1997 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date:
Not shown	1768	SE	345886 385187	Status: Active Licence No: NW/069/0028/025 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT EVERTON FOOTBALL CLUB FINCH LANE HALEWOOD Data Type: Point Name: THE EVERTON FOOTBALL CLUB COMPANY LIMITED	Annual Volume (m³): 35000 Max Daily Volume (m³): 492 Original Application No: - Original Start Date: 26/05/2007 Expiry Date: 31/03/2028 Issue No: 100 Version Start Date: 02/06/2012 Version End Date:
Not shown	1776	SE	345890 385180	Status: Historical Licence No: 2569028025 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT EVERTON FOOTBALL CLUB FINCH LANE HALEWOOD Data Type: Point Name: THE EVERTON FOOTBALL CLUB COMPANY LIMITED	Annual Volume (m³): 49142 Max Daily Volume (m³): 491.42 Original Application No: - Original Start Date: 26/05/2007 Expiry Date: 01/06/2012 Issue No: 1 Version Start Date: 26/05/2007 Version End Date:
Not shown	1845	NE	346700 387900	Status: Historical Licence No: 2569028011 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "B/HOLES (2) AT WATER LA PUMPING STATION, WHISTON, MERSEYSIDE" Data Type: Point Name: UNITED UTILITIES WATER PLC	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1845	NE	346700 387900	Status: Active Licence No: 2569028011 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: B/HOLES (2) AT WATER LA PUMPING STATION, WHISTON, MERSEYSIDE Data Type: Point Name: UNITED UTILITIES WATER LTD Annual Volume (m³): 1.75e+006 Max Daily Volume (m³): 11400 Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/09/2001 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	1471	N	346600 389100	Status: Historical Licence No: 2569028018 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "OCHRE & DOG CLOG BRKS, TARBOCK HALL FARM, TARBOCK, PRESCOT" Data Type: Line Name: T H CRITCHLEY & SON Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 13/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1993 Version End Date:
Not shown	1471	N	346600 389100	Status: Historical Licence No: 2569028018 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: OCHRE & DOG CLOG BRKS, TARBOCK HALL FARM, TARBOCK, PRESCOT Data Type: Line Name: T H CRITCHLEY & SON Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 13/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1993 Version End Date:
Not shown	1471	N	346600 389100	Status: Historical Licence No: 2569028018 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: OCHRE AND DOG CLOG BROOKS TARBOCK HALL FARM PRESCOT Data Type: Line Name: T H CRITCHLEY & SON Annual Volume (m³): 2098 Max Daily Volume (m³): 636 Application No: - Original Start Date: 13/05/1976 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1993 Version End Date:
Not shown	1471	N	346400 388600	Status: Active Licence No: 2569028018 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: OCHRE AND DOG CLOG BROOKS TARBOCK HALL FARM PRESCOT Data Type: Line Name: BELPOOL DEVELOPMENTS LTD Annual Volume (m³): 2098 Max Daily Volume (m³): 636 Application No: - Original Start Date: 13/05/1976 Expiry Date: - Issue No: 102 Version Start Date: 31/01/2011 Version End Date:

6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site

Identified

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

ID	Distance (m)	Direction	NGR	Details
3A	759	SE	345800 386400	Status: Historical Licence No: 2569028014 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) AT GREENSBRIDGE LANE PUMPING STATION, WHISTON" Data Type: Point Name: UNITED UTILITIES WATER PLC Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: - Version End Date: -
4A	759	SE	345800 386400	Status: Active Licence No: 2569028014 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT GREENSBRIDGE LANE PUMPING STATION, WHISTON Data Type: Point Name: UNITED UTILITIES WATER LTD Annual Volume (m³): 1.5e+006 Max Daily Volume (m³): 11400 Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: - Version End Date: -
Not shown	1372	N	344600 388200	Status: Historical Licence No: 2569028012 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES (3) AT NETHERLEY PUMPING STATION, LIVERPOOL Data Type: Point Name: UNITED UTILITIES WATER PLC Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: - Version End Date: -
Not shown	1372	N	344600 388200	Status: Historical Licence No: 2569028012 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLES (3) AT NETHERLEY PUMPING STATION, LIVERPOOL" Data Type: Point Name: UNITED UTILITIES WATER PLC Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: - Version End Date: -
Not shown	1372	N	344600 388200	Status: Active Licence No: 2569028012 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLES X 3 AT NETHERLEY PUMPING STATION LIVERPOOL Data Type: Point Name: UNITED UTILITIES WATER LTD Annual Volume (m³): 4.127e+006 Max Daily Volume (m³): 11400 Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: - Version End Date: -
Not shown	1672	NW	343730 387890	Status: Historical Licence No: 2569028022 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT LEE PARK GOLF CLUB, GATEACRE, LIVERPOOL" Data Type: Point Name: LEE PARK GOLF CLUB Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/02/1997 Expiry Date: - Issue No: 100 Version Start Date: - Version End Date: -

ID	Distance (m)	Direction	NGR	Details	
Not shown	1672	NW	343730 387890	Status: Active Licence No: 2569028022 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT LEE PARK GOLF CLUB, GATEACRE, LIVERPOOL Data Type: Point Name: LEE PARK GOLF CLUB LTD (THE)	Annual Volume (m³): 13829.6 Max Daily Volume (m³): 92.27 Original Application No: - Original Start Date: 21/02/1997 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:
Not shown	1845	NE	346700 387900	Status: Historical Licence No: 2569028011 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "B/HOLES (2) AT WATER LA PUMPING STATION, WHISTON, MERSEYSIDE" Data Type: Point Name: UNITED UTILITIES WATER PLC	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:
Not shown	1845	NE	346700 387900	Status: Active Licence No: 2569028011 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: B/HOLES (2) AT WATER LA PUMPING STATION, WHISTON, MERSEYSIDE Data Type: Point Name: UNITED UTILITIES WATER LTD	Annual Volume (m³): 1.75e+006 Max Daily Volume (m³): 11400 Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:

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
2	0	On Site	3	Total catchment
1	141	SE	2	Outer 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	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.
161	NW	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.
411	E	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.
413	N	Major Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.

6.9 River Quality

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
48	347	SE	345500 386700	River Name: Ditton Bk. Reach: Netherley Bk. To Halewood Bk. End/Start of Stretch: End of Stretch NGR	C	C	C	C	C
49	400	SE	345550 386680	River Name: Halewood Bk. Reach: Qsl At Liverpool South Stw To Ditton Bk. End/Start of Stretch: End of Stretch NGR	E	E	E	E	E
Not shown	933	N	345150 387850	River Name: Ditton Bk. Reach: Netherley Bk. To Halewood Bk. End/Start of Stretch: Start of Stretch NGR	C	C	C	C	C
Not shown	1282	NW	344000 387600	River Name: Halewood Bk. Reach: Qsl At Liverpool South Stw To Ditton Bk. End/Start of Stretch: Start of Stretch NGR	E	E	E	E	E

6.9.2 Chemical Quality:

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

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

ID	Distance (m)	Direction	NGR	River Quality Grade	Chemical Quality Grade				
					2005	2006	2007	2008	2009
Not shown	1385	SE	346200 385900	River Name: Ditton Bk. Reach: Warrington/L'pool Rly To Fwl End/Start of Stretch: Start of Stretch NGR	E	E	E	E	E

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	3 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	3 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
2	11 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
24	11 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	52 NW	-	Lake, loch or reservoir.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 5.3
25	52 NW	-	Lake, loch or reservoir.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 5.3
4	92 NW	-	Lake, loch or reservoir.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 4.2
26	92 NW	-	Lake, loch or reservoir.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 4.2
5	95 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
27	95 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
6	173 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
28	173 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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
7	182 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	182 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
8	183 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.4
30	183 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.4
9	208 NW	-	Lake, loch or reservoir.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 3.2
31	208 NW	-	Lake, loch or reservoir.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 3.2
10	238 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	238 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	240 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	240 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
12	245 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.2
34	245 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.2

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
13	246 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.0
35	246 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.0
14	250 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	250 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.3
36	250 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	250 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.3
16	254 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	254 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.2
38	254 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	254 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.2
18	261 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.6
40	261 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.6
19	272	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	NE			Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
41	272 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	273 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
42	273 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
21	279 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	279 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
22	284 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	284 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	302 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.3
Not shown	302 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	306 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.4
46	306 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.4
25	313 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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): 2.1
Not shown	313 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.1
26	325 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	325 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
27	328 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.2
Not shown	328 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.2
28	329 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
50	329 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
29	372 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	372 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	378 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	378 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	404 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	404 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	414 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	414 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
33	424 SE	Netherley Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 4.4
Not shown	424 SE	Netherley Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 4.4
34	425 SE	Netherley Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 5.5
35	425 SE	Ditton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 5.1
Not shown	425 SE	Netherley Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 5.5
Not shown	425 SE	Ditton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 5.1
36	433 NE	Netherley Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 4.2
58	433 NE	Netherley Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 4.2
37	435 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	435	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	NE			Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
38	441 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.6
Not shown	441 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.6
39	442 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	442 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
40	450 SE	Ditton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 5.8
Not shown	450 SE	Ditton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 5.8
41	457 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.3
Not shown	457 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.3
42	458 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.0
Not shown	458 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.0
43	459 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 4.5
Not shown	459 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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): 4.5
44	461 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.2
Not shown	461 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.2
45	464 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	464 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
46	466 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton 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	466 N	-	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
47	472 NE	Netherley Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 4.2
Not shown	472 NE	Netherley Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ditton Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 4.2

6.11 Surface Water Features

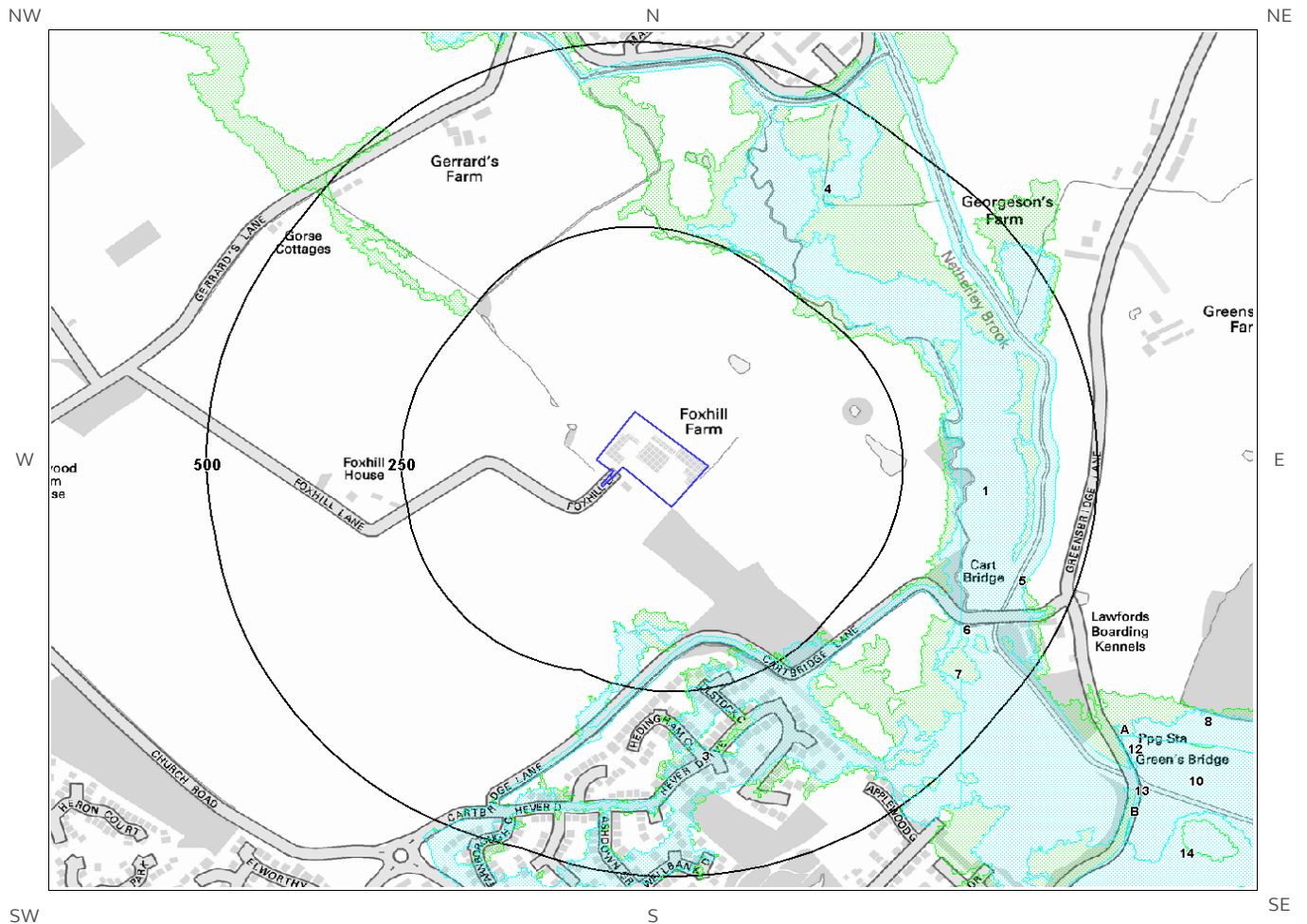
Surface water features within 250m of the study site

Identified

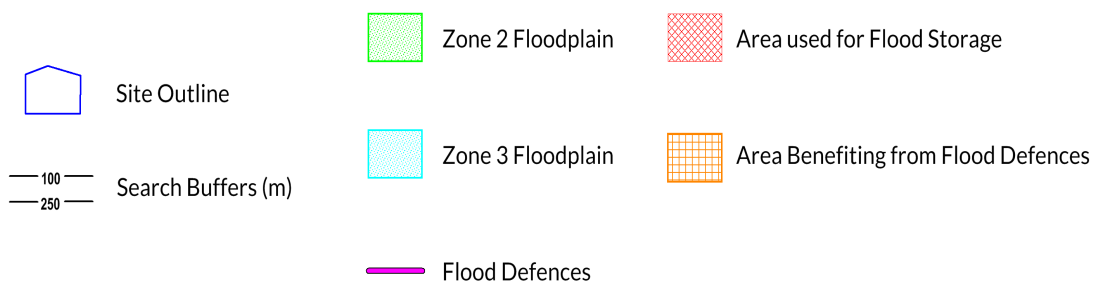
The following surface water records are not represented on mapping:

Distance (m)	Direction
3	SE
12	SW
95	NW
183	S
196	NE
205	E
206	S
208	NW
238	NW
240	N
245	NW

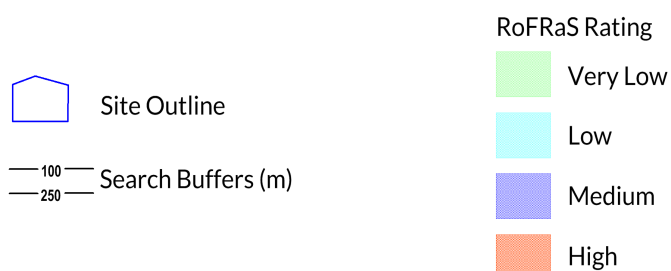
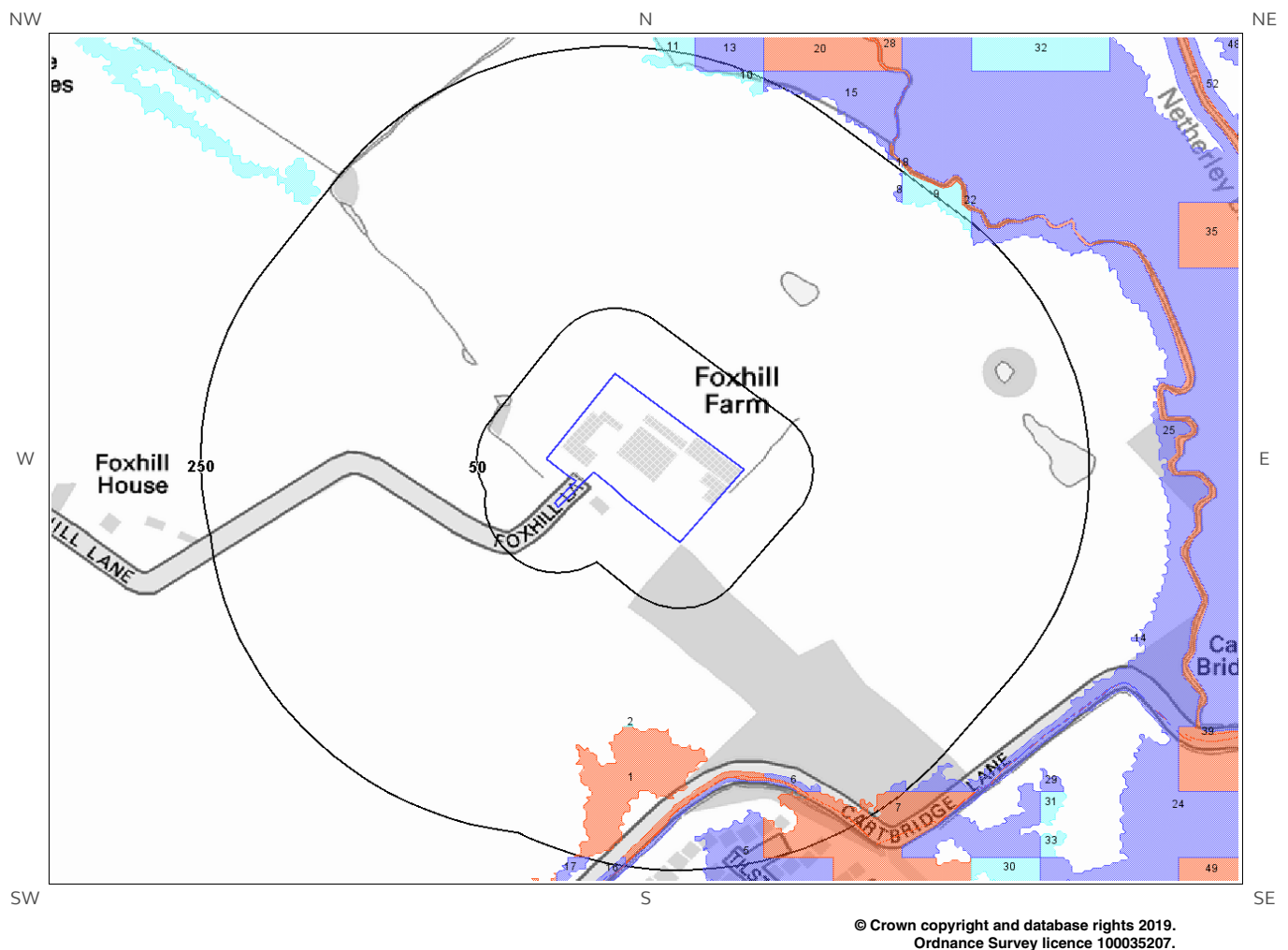
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



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



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	142	S	21-Feb-2019	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	157	S	21-Feb-2019	Zone 3 - (Fluvial /Tidal Models)
	249	NE	21-Feb-2019	Zone 3 - (Fluvial /Tidal 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 Clearwater Flooding

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

7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Limited potential

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

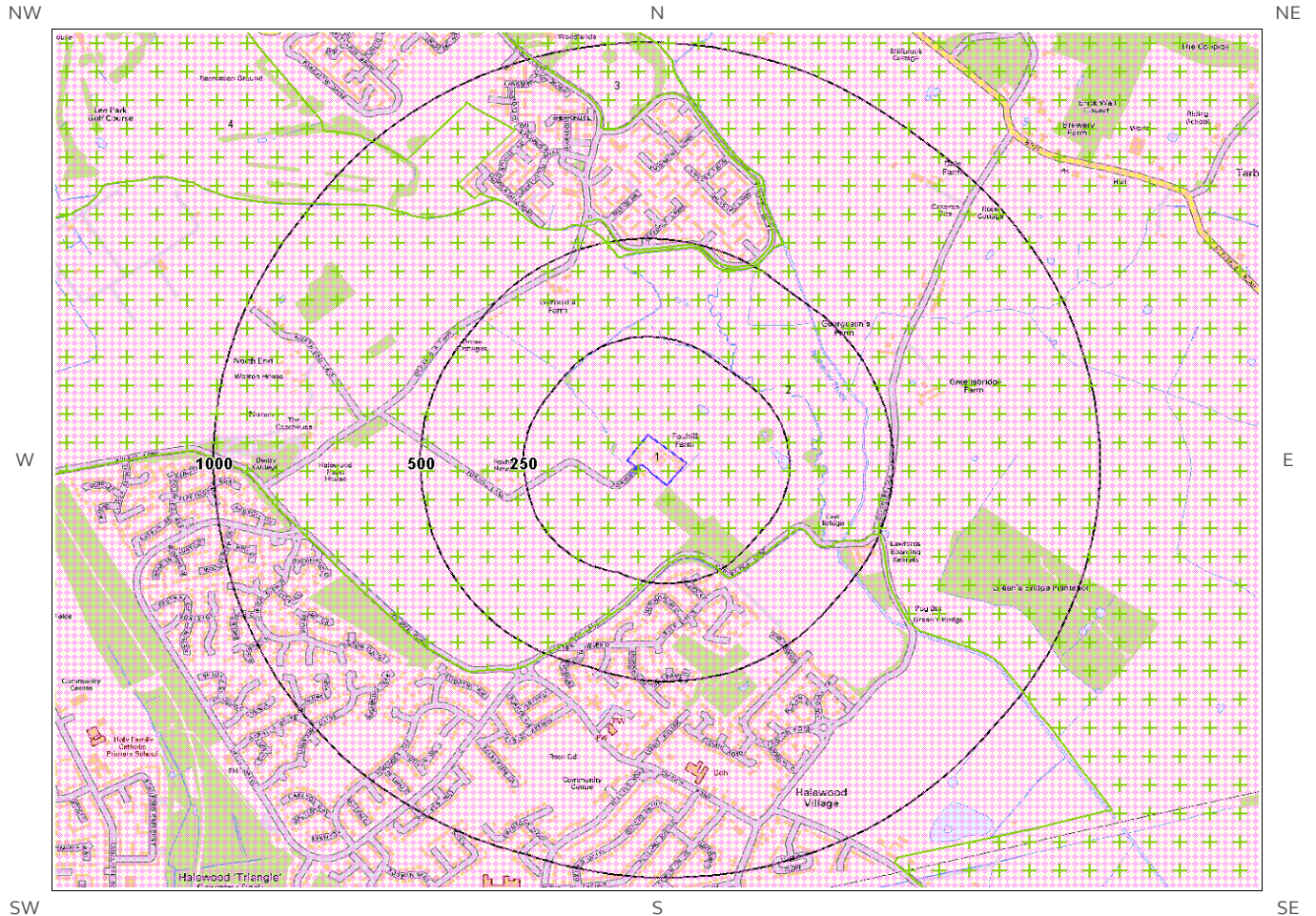
7.8 Groundwater Flooding Confidence Areas

British Geological Survey confidence rating in this result Low

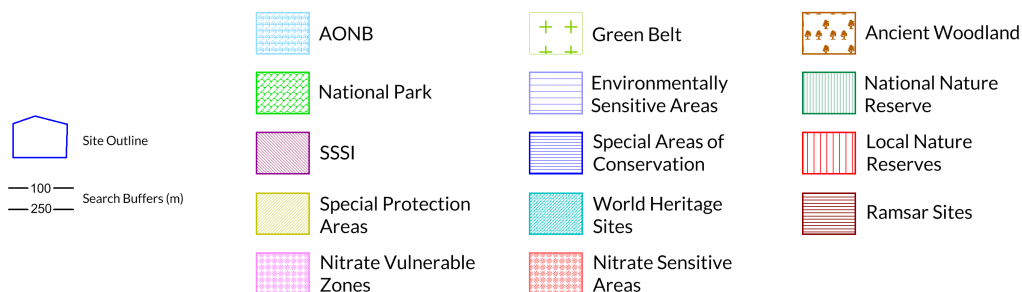
Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

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

8. Designated Environmentally Sensitive Sites Map



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8. Designated Environmentally Sensitive Sites

Designated Environmentally Sensitive Sites within 2000m of the study site	Identified
---	------------

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:

Database searched and no data found.

0

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

1

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

ID	Distance (m)	Direction	NVZ Name	Data Source
1	0	On Site	Existing	DEFRA

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

3

Green Belt data contains Ordnance Survey data © Crown copyright and database right [2015].

ID	Distance	Direction	Green Belt Name	Local Authority Name
2	0	On Site	Liverpool, Manchester and West Yorks Greenbelt	Knowsley
3	457	N	Liverpool, Manchester and West Yorks Greenbelt	Liverpool District (B)
4	701	NW	Liverpool, Manchester and West Yorks Greenbelt	Liverpool District (B)

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

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

9.1.1 Shrink Swell

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

Very Low

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

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

* 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 not in a Radon Affected Area, as less than 1% 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? No 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



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Local Authority
Authority: Knowsley Metropolitan Borough Council
Phone: 0151 489 6000
Web: <http://www.knowsley.gov.uk/>
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