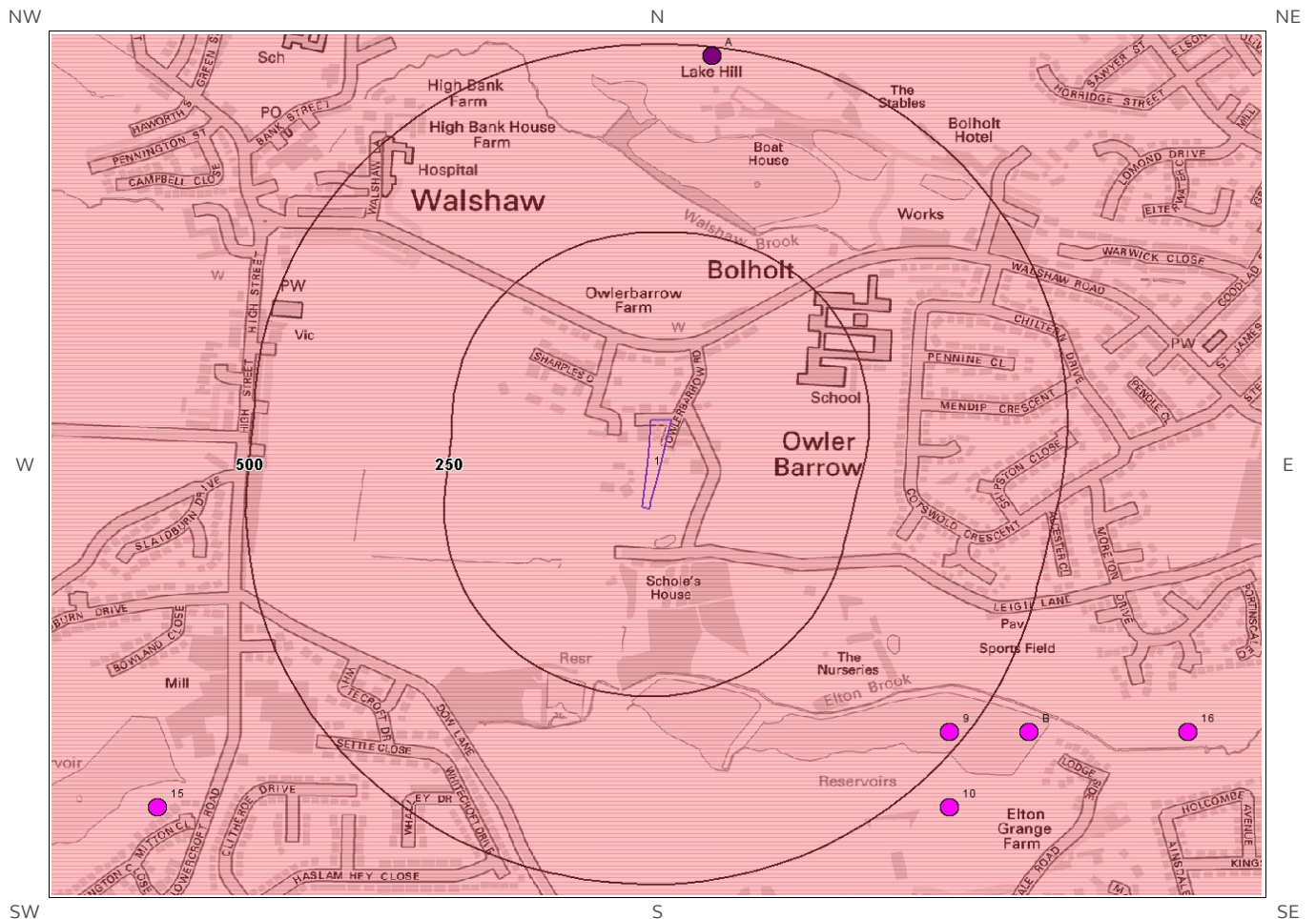


6b. Aquifer Within Bedrock Geology and Abstraction Licenses



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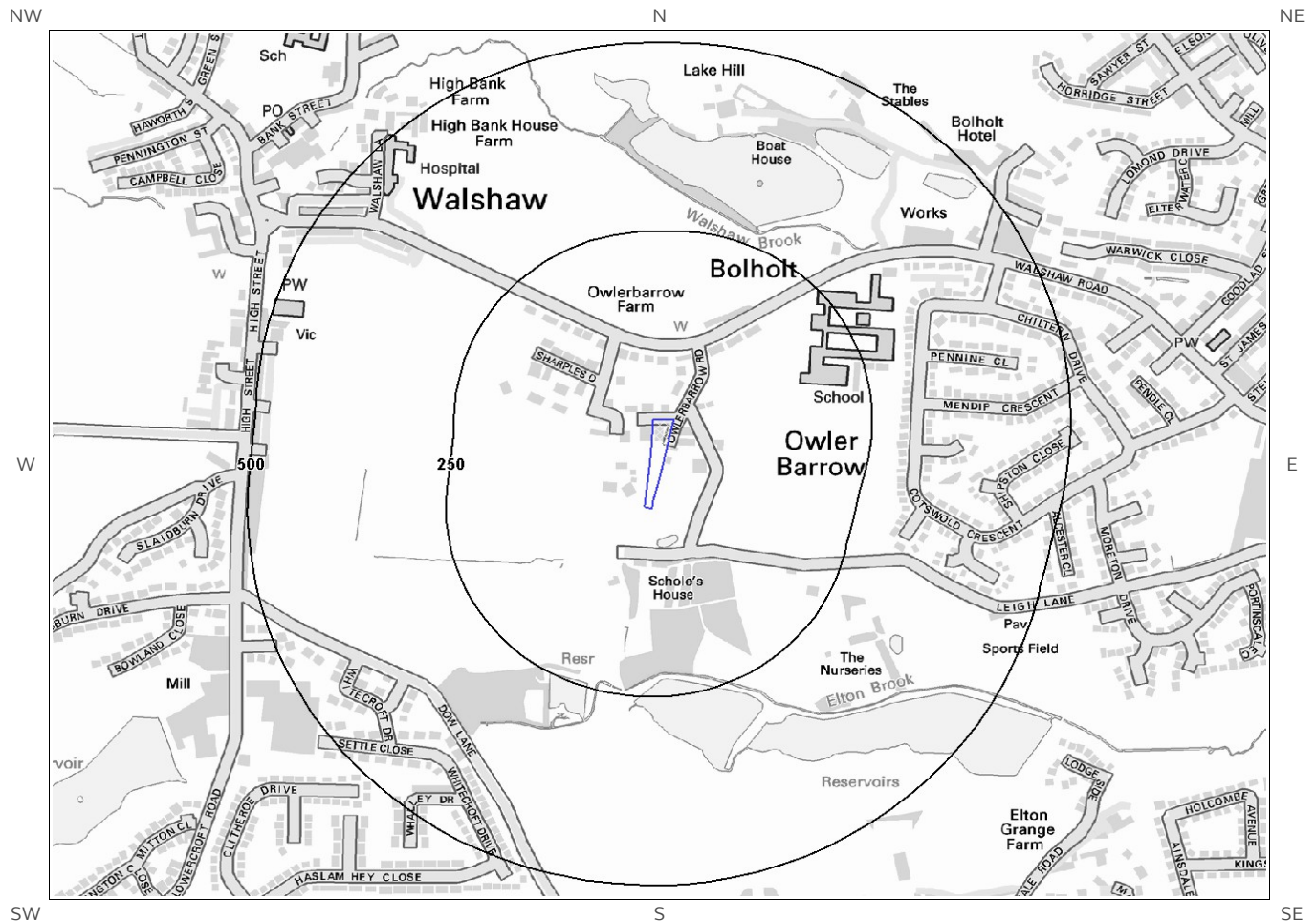


Groundsure

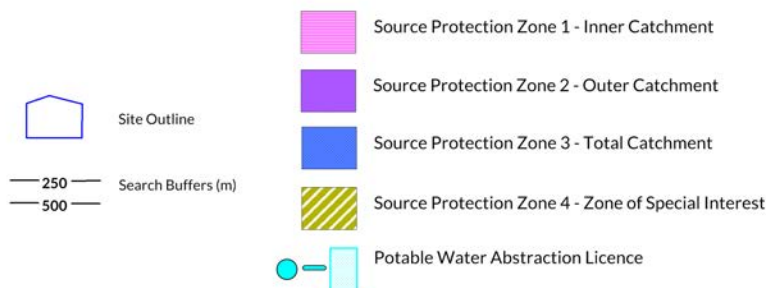
LOCATION INTELLIGENCE

DE DEMETER
ENVIRONMENTAL LTD.

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

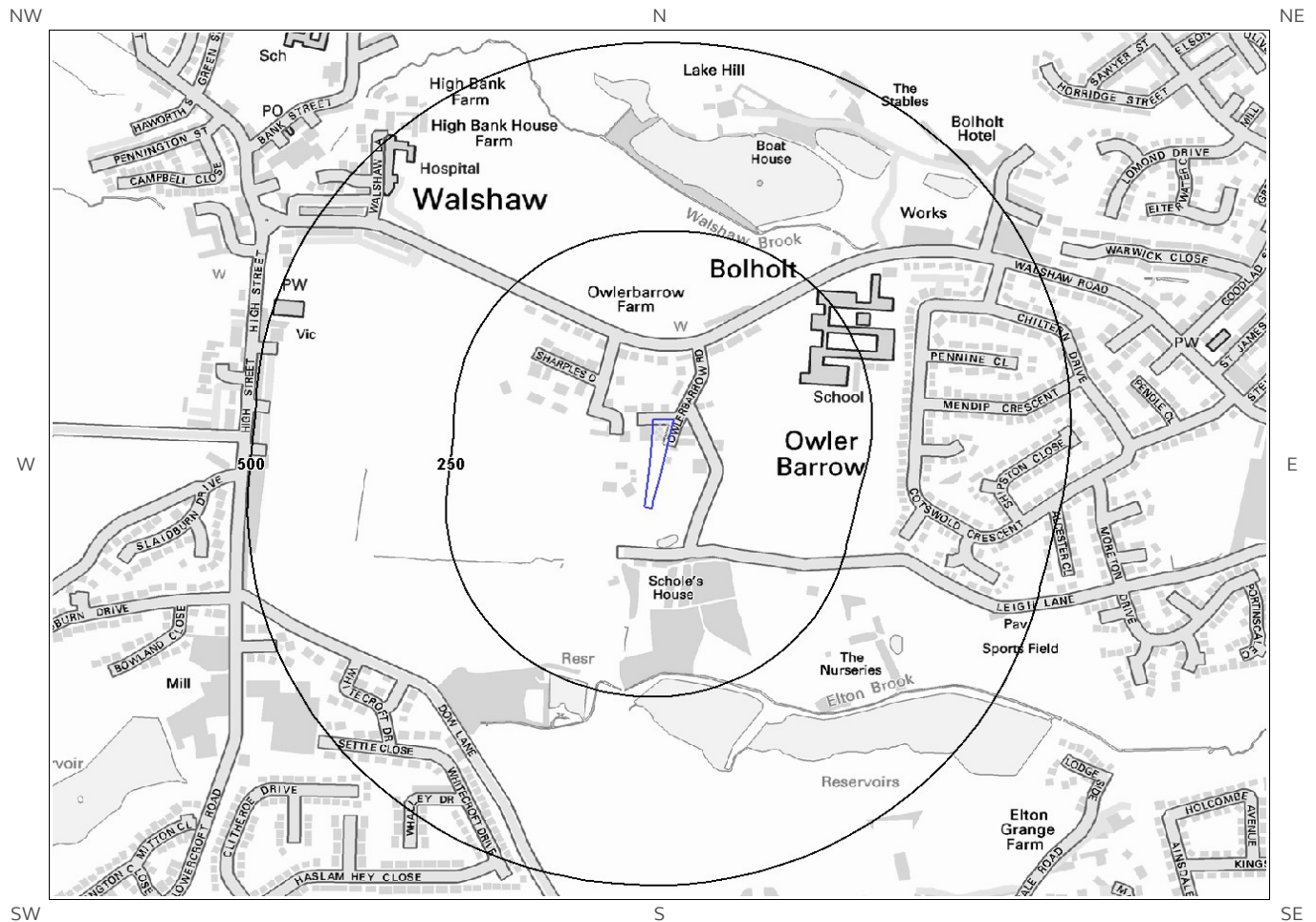


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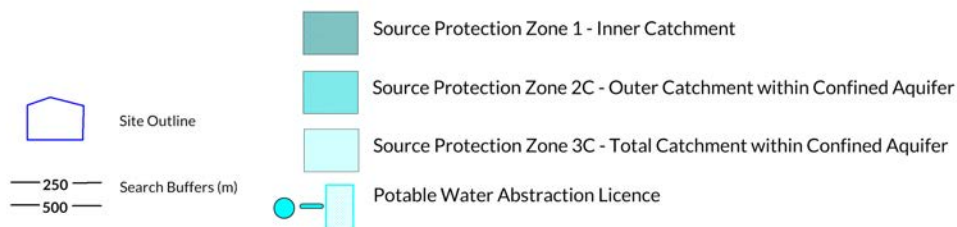




6d. Hydrogeology – Source Protection Zones within confined aquifer

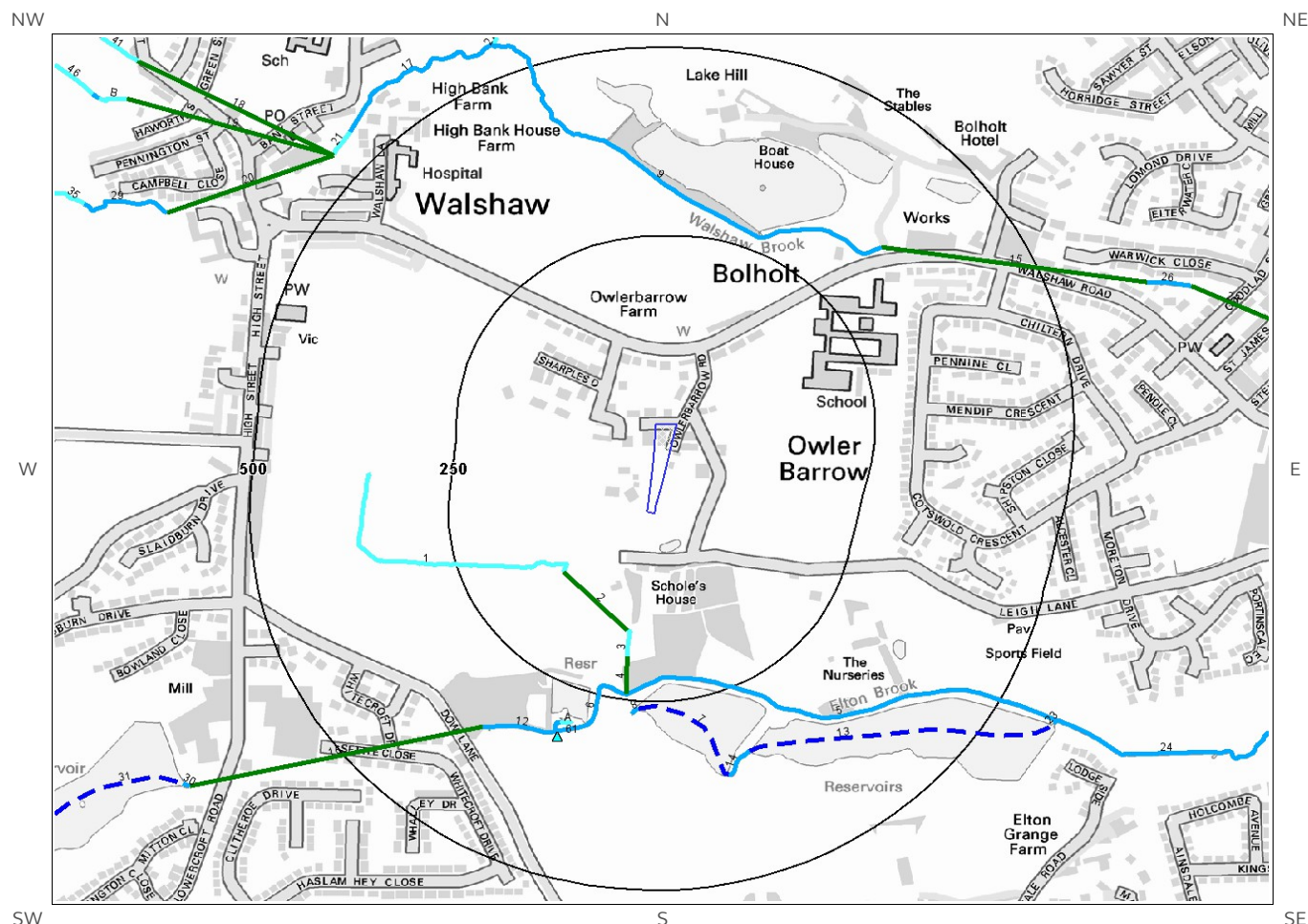


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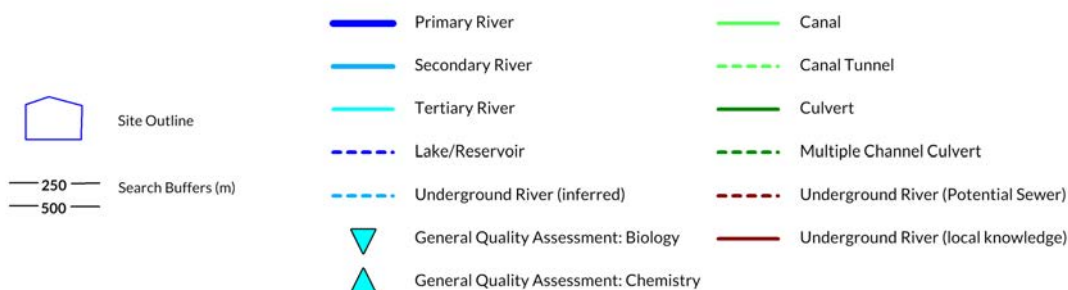




6e. Hydrology – Detailed River Network and River Quality



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6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

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
2	0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
1	351	N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

6.2 Aquifer within Bedrock Deposits

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

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

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

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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
2A	487	N	378200 411900	Status: Historical Licence No: 2569001057 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: Well At Bolholt Farm, Walshaw, Bury Data Type: Point Name: HEYS Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 1229 Original Start Date: 10/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/2/1966 Version End Date:
3A	487	N	378200 411900	Status: Historical Licence No: 2569001057 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "well At Bolholt Farm, Walshaw, Bury" Data Type: Point Name: HEYS Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 1229 Original Start Date: 10/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/2/1966 Version End Date:
Not shown	1032	NE	379000 412000	Status: Historical Licence No: 2569001017 Details: Process water Direct Source: Ground Water - North West Region Point: "borehole At Premises,olives Papermills, Bury" Data Type: Point Name: ACTIVECRAFT LTD PAPERMAKERS Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 486 Original Start Date: 15/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/6/1995 Version End Date:
Not shown	1032	NE	379000 412000	Status: Historical Licence No: 2569001017 Details: Process Water Direct Source: Ground Water - North West Region Point: Borehole At Premises, Olives Papermills, Bury Data Type: Point Name: ACTIVECRAFT LTD PAPERMAKERS Annual Volume (m³): 154564 Max Daily Volume (m³): 1591.1 Original Application No: 0486 Original Start Date: 15/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/6/1995 Version End Date:
Not shown	1032	NE	379000 412000	Status: Historical Licence No: 2569001017 Details: Process water Direct Source: Ground Water - North West Region Point: Borehole At Premises,olives Papermills, Bury Data Type: Point Name: ACTIVECRAFT LTD PAPERMAKERS Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 0486 Original Start Date: 15/2/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/6/1995 Version End Date:
Not shown	1961	W	376200 411800	Status: Historical Licence No: 2569001177 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: B/hole , Old Holts Farmroading Brook Rd, Harwood, Bolton Data Type: Point Name: MARSDEN Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 2271 Original Start Date: 24/2/1969 Expiry Date: - Issue No: 100 Version Start Date: 24/2/1969 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1961	W	376200 411800	Status: Historical Licence No: 2569001177 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "b/hole , Old Holts Farmroading Brook Rd, Harwood, Bolton" Data Type: Point Name: MARSDEN Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 2271 Original Start Date: 24/2/1969 Expiry Date: - Issue No: 100 Version Start Date: 24/2/1969 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
9	482	SE	378500 411000	Status: Historical Licence No: 2569001160 Details: Process water Direct Source: Surface, Non-tidal - North West Region Point: Reservoirs Fed By Elton Brk At Bury \$88 Data Type: Point Name: THE ELTON COP DYEING CO LTD Annual Volume (m³): - Max Daily Volume (m³): - Application No: 937 Original Start Date: 10/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/2/1975 Version End Date:
10	549	SE	378500 410900	Status: Historical Licence No: 2569001160 Details: Process water Direct Source: Surface, Non-tidal - North West Region Point: Reservoirs Fed By Elton Brk At Bury *27 Data Type: Point Name: THE ELTON COP DYEING CO LTD Annual Volume (m³): - Max Daily Volume (m³): - Application No: 937 Original Start Date: 10/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/2/1975 Version End Date:
11B	564	SE	378600 411000	Status: Historical Licence No: 2569001155 Details: General use relating to Secondary Category (Medium Loss) Direct Source: "surface, Non-tidal - North West Region" Point: "reservoir Fed By Surface Drainage Atbury, (known As Parkers)" Data Type: Point Name: CURTAIN STYLING LTD Annual Volume (m³): - Max Daily Volume (m³): - Application No: 887 Original Start Date: 7/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 3/1/1975 Version End Date:
12B	564	SE	378600 411000	Status: Historical Licence No: 2569001155 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Reservoir Fed By Surface Drainage Atbury, (known As Parkers) Data Type: Point Name: CURTAIN STYLING LTD Annual Volume (m³): - Max Daily Volume (m³): - Application No: 887 Original Start Date: 7/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 3/1/1975 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
13B	564	SE	378600 411000	Status: Historical Licence No: 2569001155 Details: Boiler Feed Direct Source: Surface, Non-tidal - North West Region Point: Reservoir Fed By Surface Drainage Atbury, (known As Parkers) Data Type: Point Name: CURTAIN STYLING LTD	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 887 Original Start Date: 7/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 3/1/1975 Version End Date:
14B	564	SE	378600 411000	Status: Historical Licence No: 2569001155 Details: Boiler Feed Direct Source: "surface, Non-tidal - North West Region" Point: "reservoir Fed By Surface Drainage Atbury, (known As Parkers " Data Type: Point Name: CURTAIN STYLING LTD	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 887 Original Start Date: 7/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 3/1/1975 Version End Date:
15	732	SW	377500 410900	Status: Historical Licence No: 2569001160 Details: Process water Direct Source: Surface, Non-tidal - North West Region Point: Reservoirs Fed By Elton Brk At Bury Data Type: Point Name: THE ELTON COP DYEING CO LTD	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 937 Original Start Date: 10/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/2/1975 Version End Date:
16	741	SE	378800 411000	Status: Historical Licence No: 2569001160 Details: Process water Direct Source: Surface, Non-tidal - North West Region Point: Reservoirs Fed By Elton Brk At Bury [10 Data Type: Point Name: THE ELTON COP DYEING CO LTD	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 937 Original Start Date: 10/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/2/1975 Version End Date:
Not shown	979	NE	379000 411900	Status: Historical Licence No: 2569001170 Details: Process Water Direct Source: Surface, Non-tidal - North West Region Point: Reservoir Fed By Kirkless Brook And Surface Drainage Data Type: Point Name: ACTIVECRAFT LTD PAPERMAKERS	Annual Volume (m³): 850102 Max Daily Volume (m³): 3182.2 Application No: 0485 Original Start Date: 23/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/6/1995 Version End Date:
Not shown	1108	NE	378700 412500	Status: Historical Licence No: 2569001170 Details: Process water Direct Source: "surface, Non-tidal - North West Region" Point: "kirkless Brk At Woolfold, Bury \$93" Data Type: Line Name: ACTIVECRAFT LTD PAPERMAKERS	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 485 Original Start Date: 23/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/6/1995 Version End Date:
Not shown	1108	NE	378700 412500	Status: Historical Licence No: 2569001170 Details: Process water Direct Source: Surface, Non-tidal - North West Region Point: Kirkless Brk At Woolfold, Bury \$93 Data Type: Line Name: ACTIVECRAFT LTD PAPERMAKERS	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 0485 Original Start Date: 23/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/6/1995 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1108	NE	378700 412500	Status: Historical Licence No: 2569001170 Details: Process Water Direct Source: Surface, Non-tidal - North West Region Point: Kirklees Brk At Woolfold, Bury Data Type: Line Name: ACTIVECRAFT LTD PAPERMAKERS	Annual Volume (m³): 850102 Max Daily Volume (m³): 3182.2 Application No: 0485 Original Start Date: 23/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/6/1995 Version End Date:
Not shown	1695	E	379706 410696	Status: Active Licence No: 2569001285R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: River Irwell At Rmc Northernt Bury Canal Wharf Data Type: Point Name: CEMEX UK MATERIALS LTD	Annual Volume (m³): 5500 Max Daily Volume (m³): 21 Application No: NPS/WR/017678 Original Start Date: 1/4/2015 Expiry Date: 31/3/2027 Issue No: 1 Version Start Date: 1/4/2015 Version End Date:
Not shown	1695	E	379706 410696	Status: Historical Licence No: 2569001285 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: River Irwell At Rmc Northernt Bury Canal Wharf Data Type: Point Name: CEMEX UK MATERIALS LTD	Annual Volume (m³): 5500 Max Daily Volume (m³): 21 Application No: 7554 Original Start Date: 23/3/2005 Expiry Date: 31/3/2015 Issue No: 2 Version Start Date: 1/4/2008 Version End Date:
Not shown	1865	E	380014 411406	Status: Active Licence No: NW/069/0001/007 Details: Hydroelectric Power Generation Direct Source: Surface, Non-tidal - North West Region Point: River Irwell At Chamber Hall Weir Data Type: Point Name: Bury Council	Annual Volume (m³): 90000000 Max Daily Volume (m³): 340416 Application No: NPS/WR/008027 Original Start Date: 10/6/2016 Expiry Date: 31/3/2027 Issue No: 1 Version Start Date: 10/6/2016 Version End Date:
Not shown	1965	SE	379450 409850	Status: Historical Licence No: 2569001056 Details: Dust suppression Direct Source: Surface, Non-tidal - North West Region Point: The River Irwell At Hinds Lane, Bury Data Type: Point Name: J B SKIPS & SERVICES LTD	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 926 Original Start Date: 18/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/1997 Version End Date:
Not shown	1965	SE	379450 409850	Status: Historical Licence No: 2569001056 Details: Dust suppression Direct Source: "surface, Non-tidal - North West Region" Point: "the River Irwell At Hinds Lane, Bury" Data Type: Point Name: J B SKIPS & SERVICES LTD	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 926 Original Start Date: 18/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/1997 Version End Date:

6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site

None identified

Database searched and no data found.

6.6 Source Protection Zones

Source Protection Zones within 500m of the study site

None identified

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

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

None identified

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

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

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

Identified

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.

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:

Database searched and no data found.

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

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

ID	Distance (m)	Direction	NGR	River Quality Grade	Chemical Quality Grade				
					2005	2006	2007	2008	2009
61	320	S	378000 411000	River Name: Elton Bk. Reach: Qsl At Dow Lane To Irwell End/Start of Stretch: Start of Stretch NGR	B	B	B	B	B
Not shown	1265	E	379400 411600	River Name: Kirklees Bk. Reach: Olives Paper Mill To Irwell End/Start of Stretch: Start of Stretch NGR	A	A	A	A	A

6.10 Detailed River Network

Detailed River Network entries within 500m of the study site

Identified

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

ID	Distance (m)	Direction	Details	
1	123	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
2	130	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
3	159	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
4	193	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
5	218	S	River Name: Elton Brook Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
6	237	S	River Name: Elton Brook Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
7	256	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Lake/Reservoir Main River Status: Currently Undefined
8	259	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
9	269	N	River Name: Walshaw Brook Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
10A	295	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
11A	299	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
12	314	S	River Name: Elton Brook Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
13	337	SE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Lake/Reservoir Main River Status: Currently Undefined
14	338	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
15	349	NE	River Name: Walshaw Brook Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
16	352	SW	River Name: Elton Brook Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined

6.11 Surface Water Features

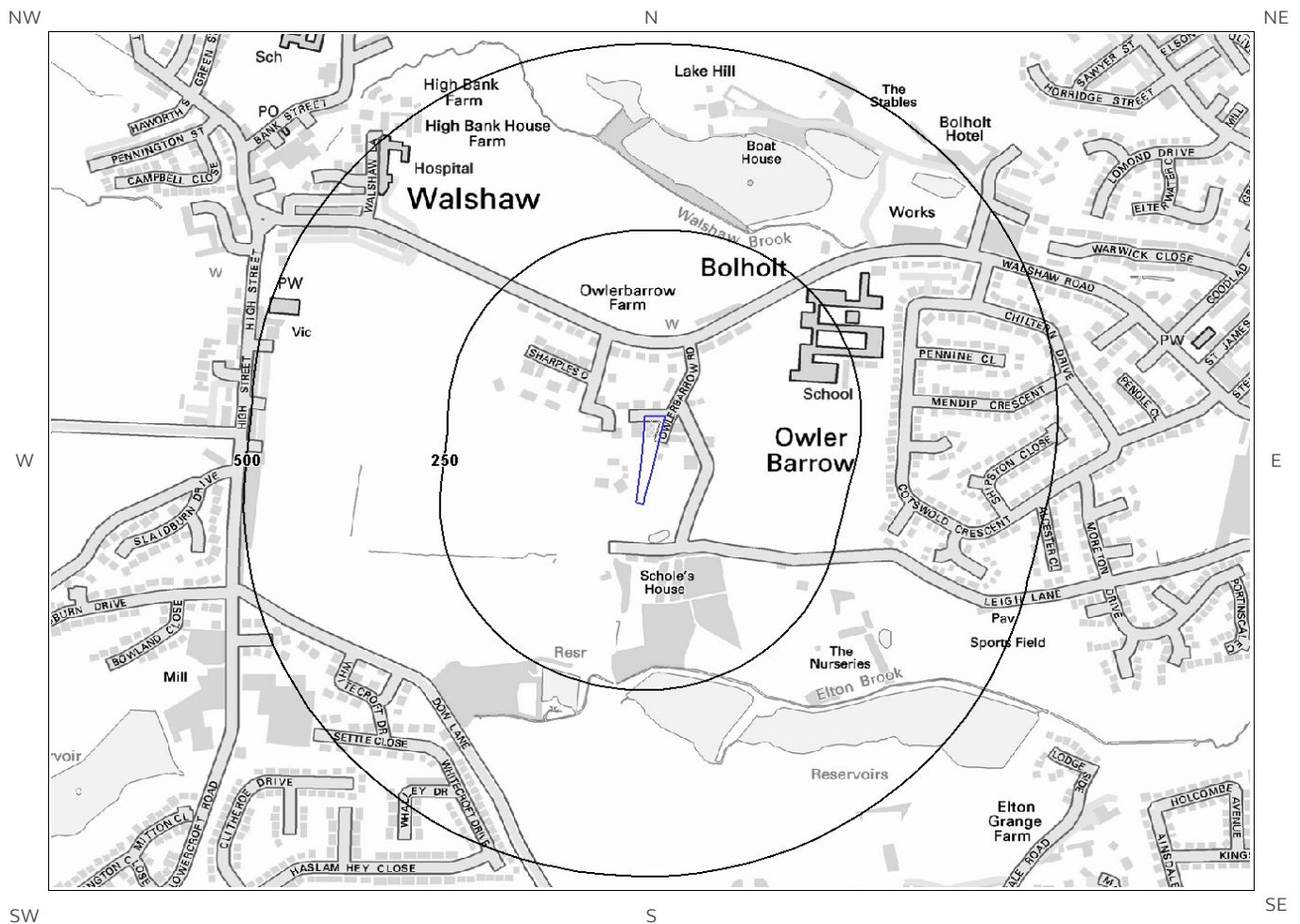
Surface water features within 250m of the study site

Identified

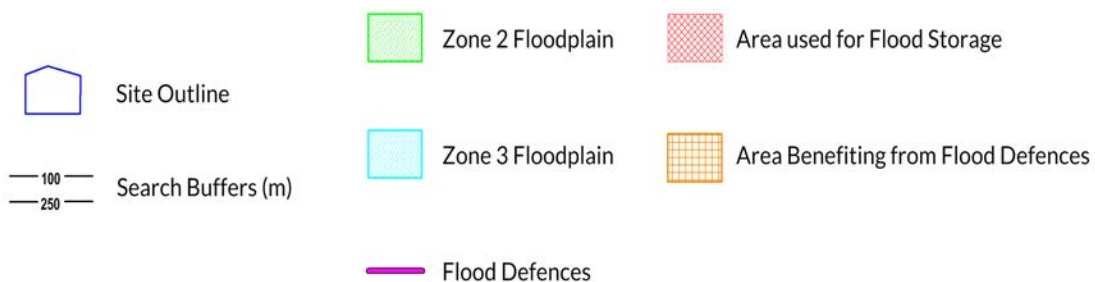
The following surface water records are not represented on mapping:

Distance (m)	Direction
123	SW
159	S
217	S
235	S

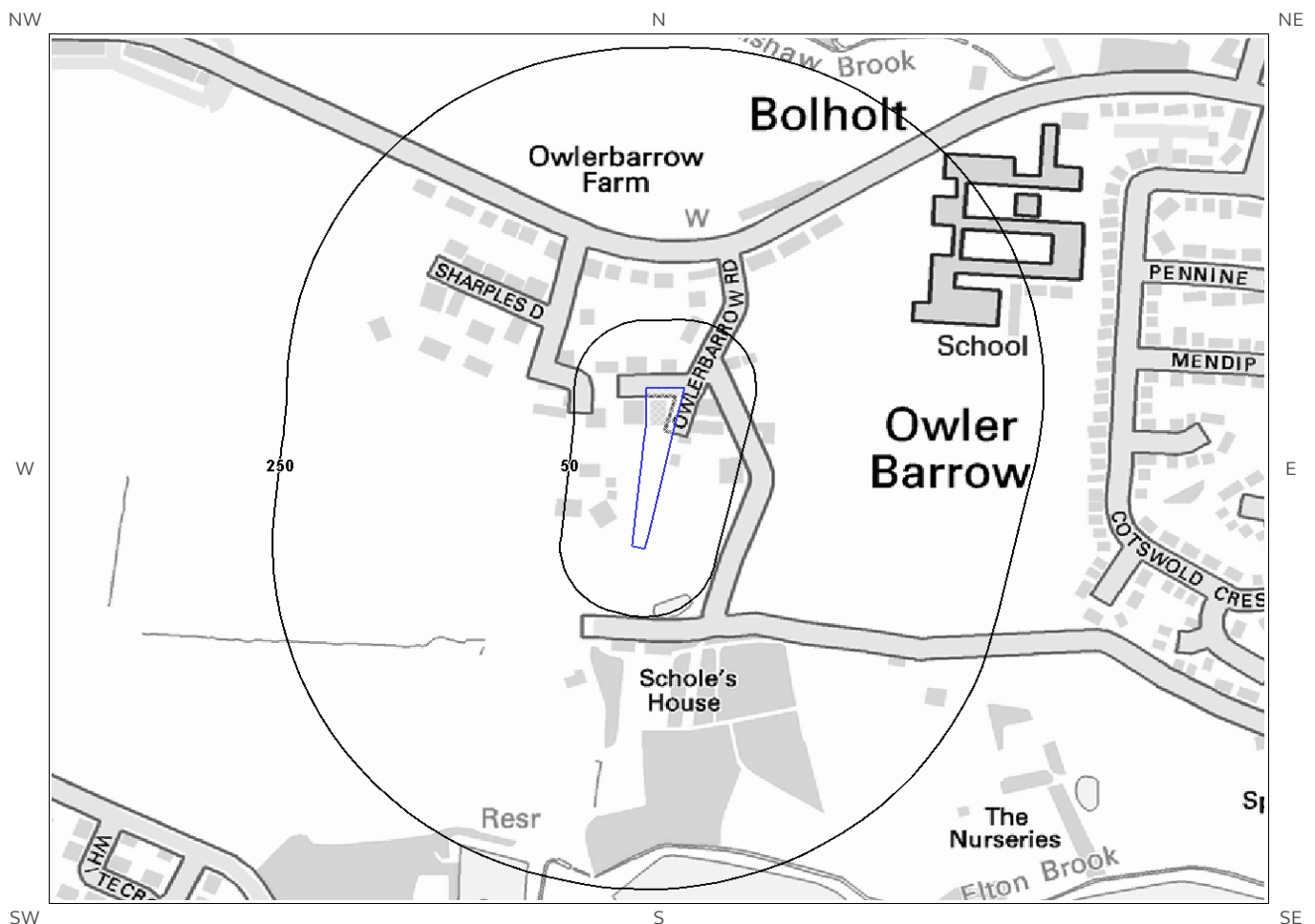
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



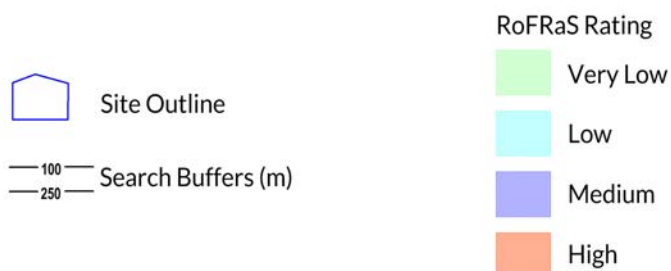
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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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7 Flooding

7.1 River and Coastal Zone 2 Flooding

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

None 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:

Database searched and no data found.

7.2 River and Coastal Zone 3 Flooding

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

None 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.

Database searched and no data found.

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 & Superficial Deposits Flooding

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

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

Potential at Surface

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

7.8 Groundwater Flooding Confidence Areas

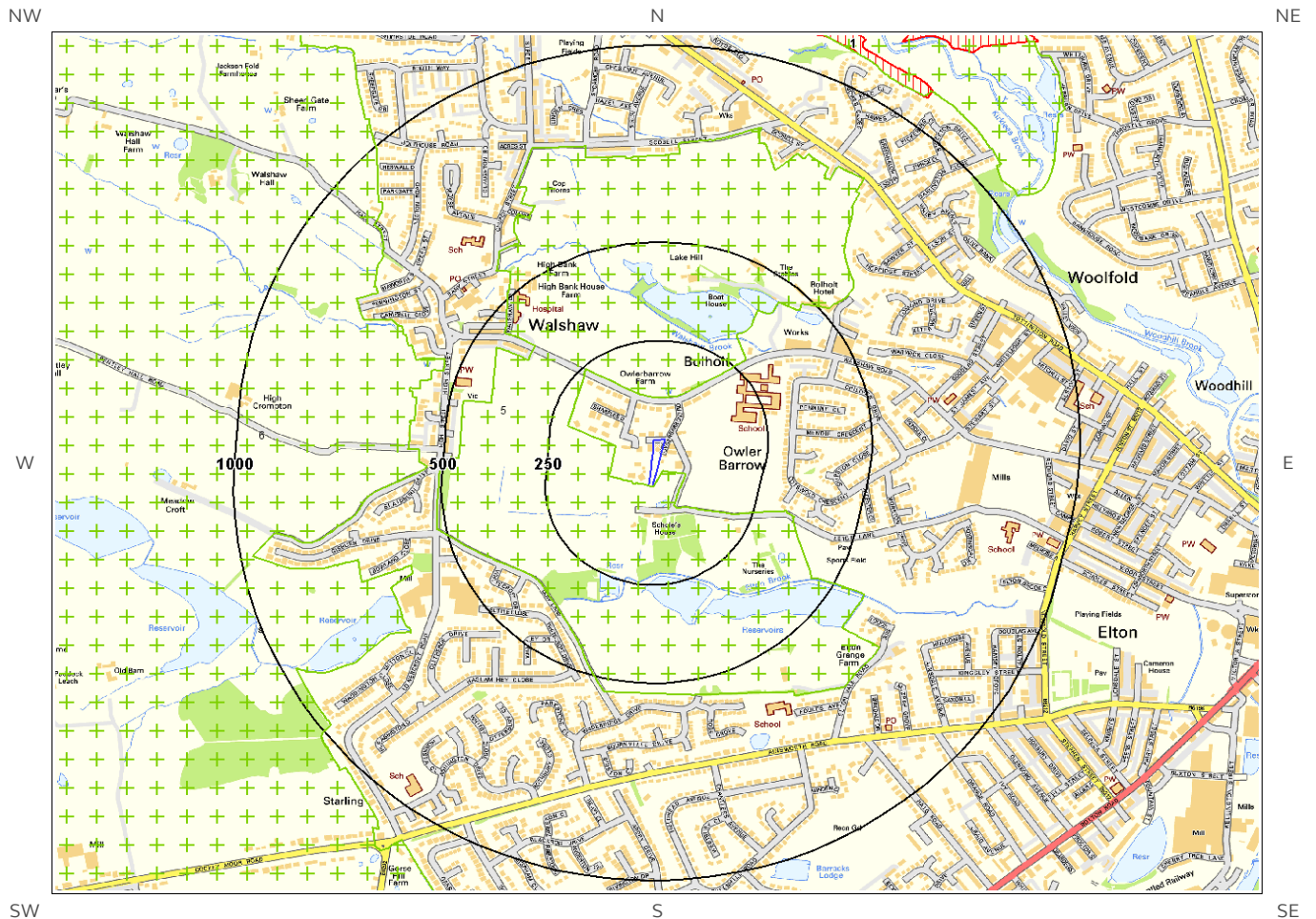
British Geological Survey confidence rating in this result

Low

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

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

8. Designated Environmentally Sensitive Sites Map



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8. Designated Environmentally Sensitive Sites

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

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:

0

Database searched and no data found.

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

4

The following Local Nature Reserve (LNR) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	LNR Name	Data Source
1	1066	NE	Kirklees Valley	Natural England
Not shown	1240	NE	Kirklees Valley	Natural England
Not shown	1287	N	Kirklees Valley	Natural England
Not shown	1329	NE	Kirklees Valley	Natural England

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

10

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ID	Distance	Direction	Green Belt Name	Local Authority Name
5	0	S	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
6	534	W	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1356	S	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1493	SE	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1609	S	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1698	S	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1823	E	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1855	E	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1874	E	Liverpool, Manchester and West Yorks Greenbelt	Bury District (B)
Not shown	1876	E	Liverpool, Manchester and West Yorks Greenbelt	Bury 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.

9.2.1 Radon Affected Areas

Radon Affected Area assessment: 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

Radon protection measures requirements 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

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**The Coal
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Groundsure

LOCATION INTELLIGENCE

DE DEMETER
ENVIRONMENTAL LTD.

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