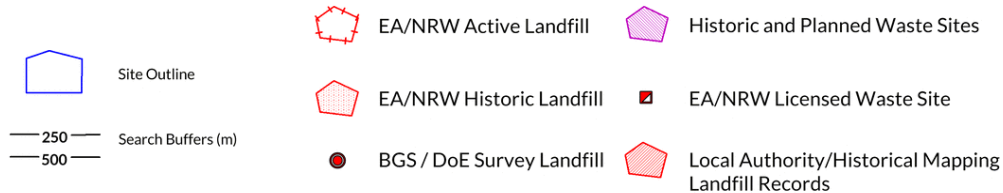
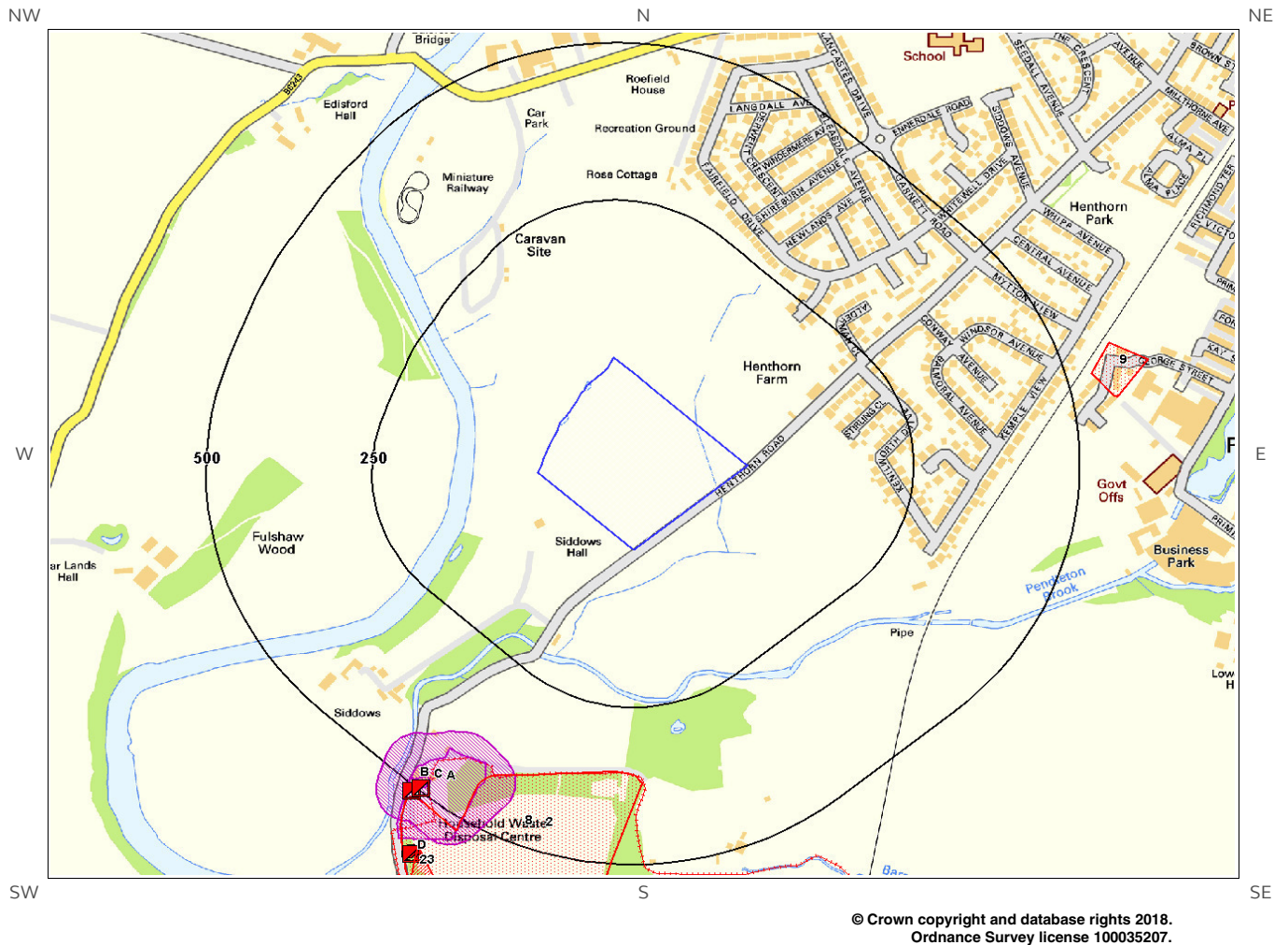


3. Landfill and Other Waste Sites Map



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:

1

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

ID	Distance (m)	Direction	NGR	Details
2	354	S	372600 440300	Address: Land/premises At, Henthorn Road, Clitheroe, Blackburn, Lancashire, BB7 2QF Landfill Reference: 54102.0 Environmental Permitting Regulations (Waste) Reference: SIT007 Landfill Type: A04: Household, Commercial & Industrial Waste Landfill Operator: Suez Recycling And Recovery Lancashire Ltd Status: Modified IPPC Reference: EPR Reference:

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

3

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
8	354	S	372700 440100	Site Address: Henthorn Tip, Hewthorn, Clitheroe, Lancashire Waste Licence: - Site Reference: - Waste Type: Commercial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Clitheroe Metropolitan Borough Licence Holder: - First Recorded: 31-Dec-1920 Last Recorded: -
9	538	E	373600 440900	Site Address: Stalwart Dying Company Limited, Off Kemple View, Near Clitheroe, Lancashire Waste Licence: - Site Reference: K1/03/034 Waste Type: Waste unknown Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -

ID	Distance (m)	Direction	NGR	Details	
Not shown	887	N	373000 442000	Site Address: Ashworth's Farm, Low Moor, Clitheroe, Lancashire Waste Licence: - Site Reference: K1/03/045 Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: 31-Dec-1945 Last Recorded: 31-Dec-1945

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

1

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

ID	Distance (m)	Direction	NGR	Details	
1D	588	SW	372600.0 440200.0	Address: Hewthorn Tip, Hewthorn, Clitheroe, Lancs BGS Number: 1916.0	Risk: No risk to aquifer Waste Type: N/A

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

1

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

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
23	571	SW	372620 440156	Refuse Tip	1964 mapping	Polygon

3.2 Other Waste Sites

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

5

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

ID	Distance (m)	Direction	NGR	Details		
3A	375	SW	372666 440303	Type of Site: Refuse Destructor (B) Site Address: N/A	Planning Application Reference: N/A Date: 1950	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon

ID	Distance (m)	Direction	NGR	Details		
4A	406	SW	372645 440295	Type of Site: Refuse Destructor Site Address: N/A	Planning Application Reference: N/A Date: 1938	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
5A	406	SW	372645 440295	Type of Site: Refuse Destructor Site Address: N/A	Planning Application Reference: N/A Date: 1930	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
6B	475	SW	372613 440315	Type of Site: Refuse Destructor Site Address: N/A	Planning Application Reference: N/A Date: 1964	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
7B	482	SW	372609 440307	Type of Site: Refuse Destroyer Site Address: N/A	Planning Application Reference: N/A Date: 1932	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon

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

12

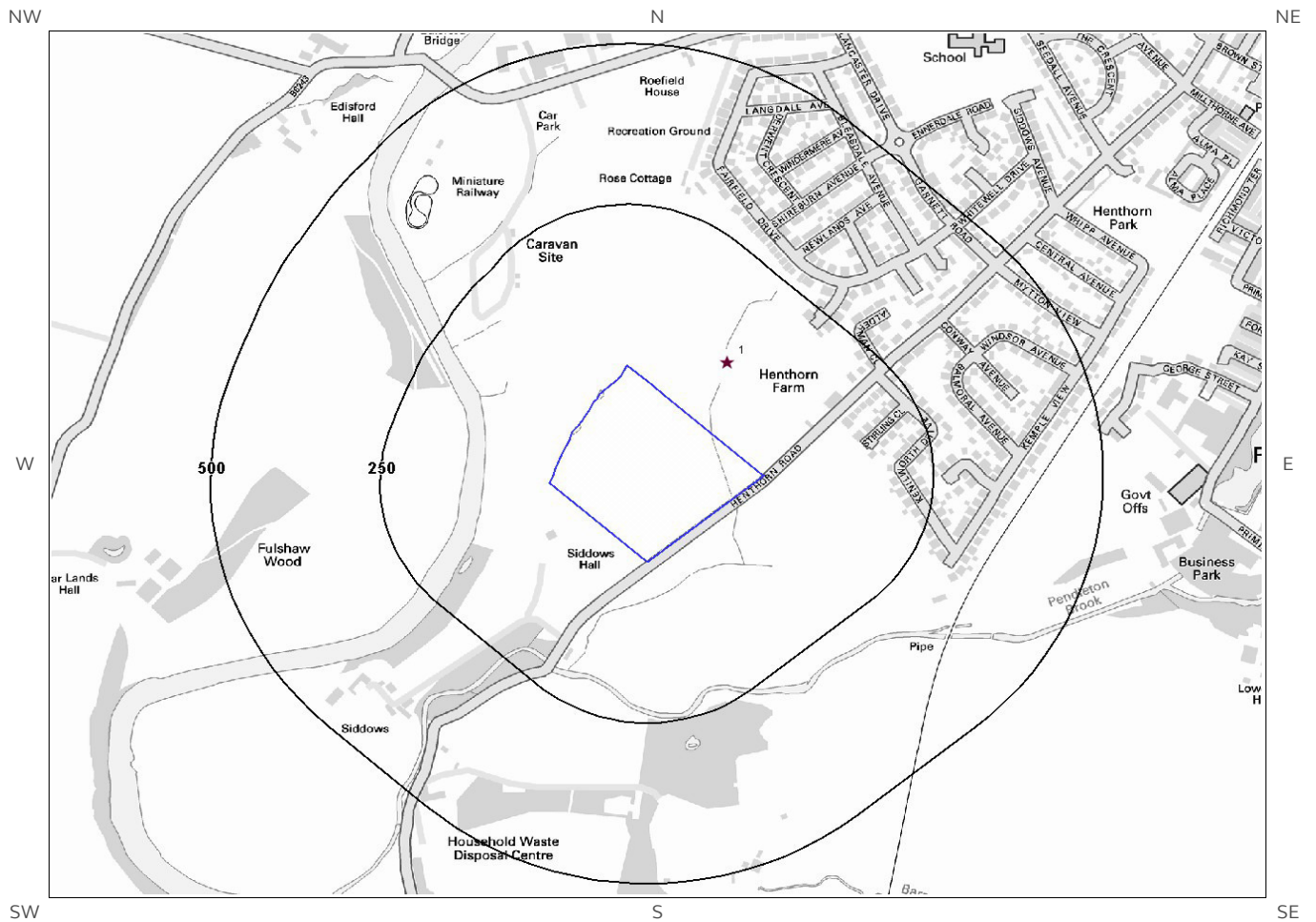
The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
11C	496	SW	372614 440304	Site Address: Land/premises At, Henthorn Road, Clitheroe, Lancashire, BB7 2QF Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT019 EPR reference: EA/EPR/RP3391CW/V004 Operator: Suez Recycling And Recovery Lancashire Ltd Waste Management licence No: 54114 Annual Tonnage: 24999.0	Issue Date: 14/05/1993 Effective Date: - Modified: 30/06/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Henthorn Road H W D C Correspondence Address: -
12C	496	SW	372614 440304	Site Address: Land/premises At, Henthorn Road, Clitheroe, Lancashire, BB7 2QF Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT019 EPR reference: EA/EPR/RP3391CW/V002 Operator: Sita (Lancashire) Ltd Waste Management licence No: 54114 Annual Tonnage: 24999.0	Issue Date: 14/05/1993 Effective Date: - Modified: 25/11/2002 Surrendered Date: 0 Expiry Date: - Cancelled Date: - Status: Modified Site Name: Henthorn Road H W D C Correspondence Address: -
13C	496	SW	372614 440304	Site Address: Land/premises At, Henthorn Road, Clitheroe, Lancashire, BB7 2QF Type: Special Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT019 EPR reference: EA/EPR/RP3391CW/V002 Operator: Sita (Lancashire) Ltd Waste Management licence No: 54114 Annual Tonnage: 24999.0	Issue Date: 14/05/1993 Effective Date: - Modified: 25/11/2002 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Henthorn Road H W D C Correspondence Address: -

ID	Distance (m)	Direction	NGR	Details
14C	509	SW	372600 440300	Site Address: Land/premises At, Henthorn Road, Clitheroe, Blackburn, Lancashire, BB7 2QF Type: Household, Commercial & Industrial Waste Landfill Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT007 EPR reference: EA/EPR/AP3095SA/V012 Operator: Suez Recycling And Recovery Lancashire Ltd Waste Management licence No: 54102 Annual Tonnage: 4999.0 Issue Date: 14/05/1993 Effective Date: - Modified: 30/06/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Henthorn Road Landfill Site Correspondence Address: -
15C	509	SW	372600 440300	Site Address: Land/premises At, Henthorn Road, Clitheroe, Blackburn, Lancashire, BB7 2QF Type: Household, Commercial & Industrial Waste Landfill Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT007 EPR reference: EA/EPR/AP3095SA/V003 Operator: Sita (Lancashire) Ltd Waste Management licence No: 54102 Annual Tonnage: 4999.0 Issue Date: 14/05/1993 Effective Date: - Modified: 09/01/2014 Surrendered Date: 0 Expiry Date: - Cancelled Date: - Status: Modified Site Name: Henthorn Road Landfill Site Correspondence Address: -
16D	588	SW	372600 440200	Site Address: Henthorn Road, Clitheroe, Lancashire, BB7 2QF Type: Special Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT019 EPR reference: - Operator: Sita (Lancashire) Ltd Waste Management licence No: 54114 Annual Tonnage: 0.0 Issue Date: 14/05/1993 Effective Date: - Modified: 25/11/2002 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Henthorn Road H W D C Correspondence Address: Tustin Court, Portway, Preston, Lancashire, PR2 2YQ
17D	588	SW	372600 440200	Site Address: Henthorn Road, Clitheroe, Lancashire, BB7 2QF Type: Special Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT019 EPR reference: - Operator: Sita U K Ltd Waste Management licence No: 54114 Annual Tonnage: 24999.0 Issue Date: 14/05/1993 Effective Date: - Modified: 25/11/2002 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Henthorn Road H W D C Correspondence Address: Tustin Court, Portway, Preston, Lancashire, PR2 2YQ
Not shown	684	S	372900 440000	Site Address: Henthorn Road, Clitheroe, Blackburn, Lancashire, BB7 2QF Type: Household, Commercial & Industrial Waste Landfill Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT007 EPR reference: - Operator: Sita U K Ltd Waste Management licence No: 54102 Annual Tonnage: 74999.0 Issue Date: 14/05/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Henthorn Road L F S Correspondence Address: Tustin Court, Portway, Preston, Lancashire, PR2 2YQ

ID	Distance (m)	Direction	NGR	Details	
Not shown	684	S	372900 440000	Site Address: Henthorn Road, Clitheroe, Blackburn, Lancashire, BB7 2QF Type: Household, Commercial & Industrial Waste Landfill Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT007 EPR reference: - Operator: Sita (Lancashire) Ltd Waste Management licence No: 54102 Annual Tonnage: 0.0	Issue Date: 14/05/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Henthorn Road L F S Correspondence Address: Tustin Court, Portway, Preston, Lancashire, PR2 2YQ
Not shown	684	S	372900 440000	Site Address: Henthorn Road, Clitheroe, Blackburn, Lancashire, BB7 2QF Type: Household, Commercial & Industrial Waste Landfill Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT007 EPR reference: - Operator: Sita (Lancashire) Ltd Waste Management licence No: 54102 Annual Tonnage: 74999.0	Issue Date: 14/05/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Henthorn Road L F S Correspondence Address: Tustin Court, Portway, Preston, Lancashire, PR2 2YQ
Not shown	686	S	373000 440000	Site Address: Henthorn Road, Clitheroe, Blackburn, Lancashire, BB7 2QF Type: - Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT208 EPR reference: - Operator: Sita (Lancashire) Ltd Waste Management licence No: 54494 Annual Tonnage: 0.0	Issue Date: 31/03/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC Site Name: Henthorn Road L T P Correspondence Address: Tustin Court, Portway, Preston, Lancashire, PR2 2YQ
Not shown	686	S	373000 440000	Site Address: Henthorn Road, Clitheroe, Blackburn, Lancashire, BB7 2QF Type: Co-Disposal Landfill Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT208 EPR reference: EA/EPR/MP3393ZE/A001 Operator: Sita (Lancashire) Ltd Waste Management licence No: 54494 Annual Tonnage: 1.0	Issue Date: 31/03/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC Site Name: Henthorn Road L T P Correspondence Address: -

4. Current Land Use Map



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4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 1

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

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	99	NE	Electricity Sub Station	373053 440994	BB7	Electrical Features	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 0

Database searched and no data found.

4.3 National Grid High Voltage Underground Electricity Transmission Cables

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

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

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

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

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

5.2 Superficial Ground and Drift Geology

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

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

5.3 Bedrock and Solid Geology

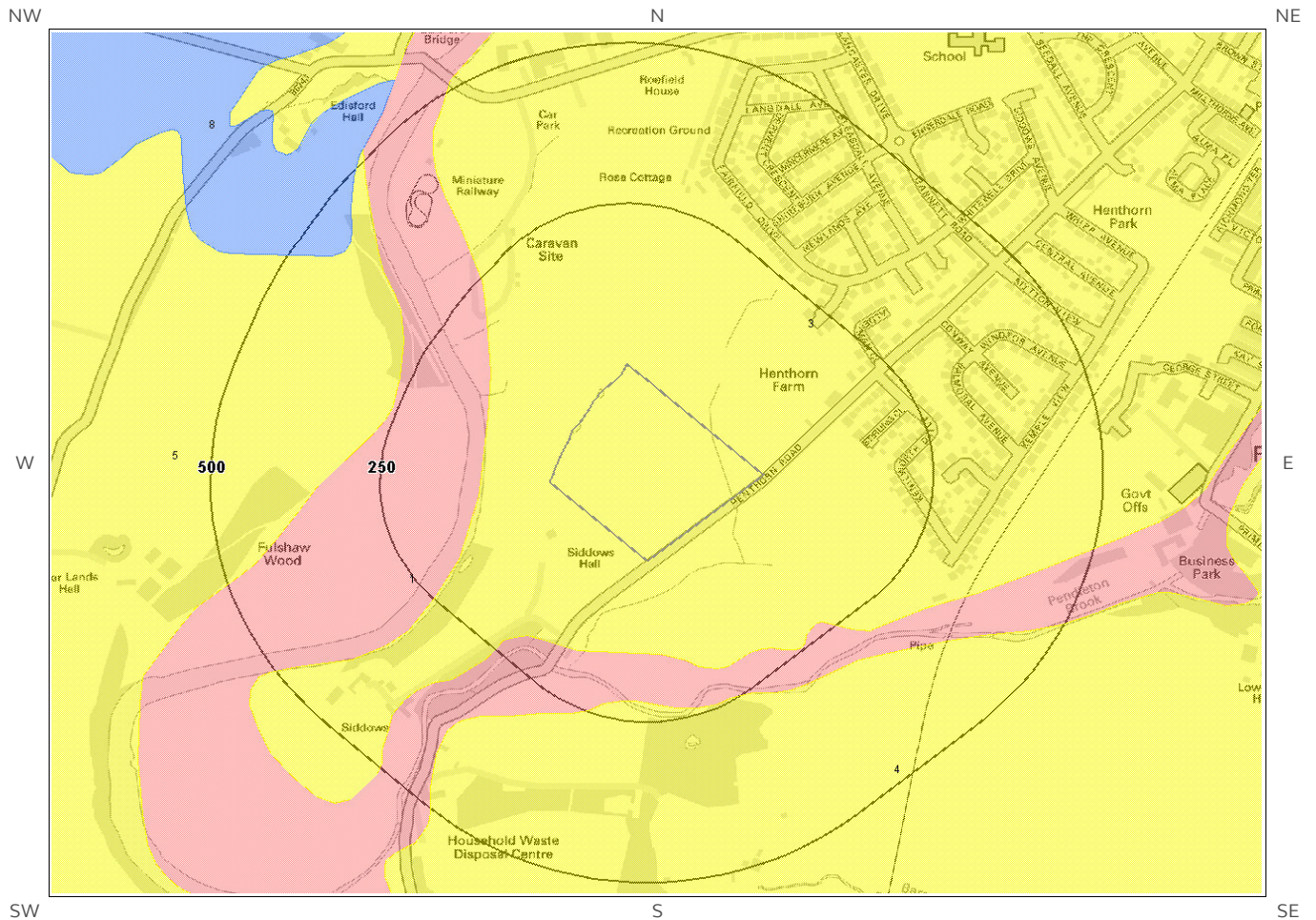
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
CLHOM-MDST	CLITHEROE LIMESTONE FORMATION AND HODDER MUDSTONE FORMATION (UNDIFFERENTIATED)	MUDSTONE

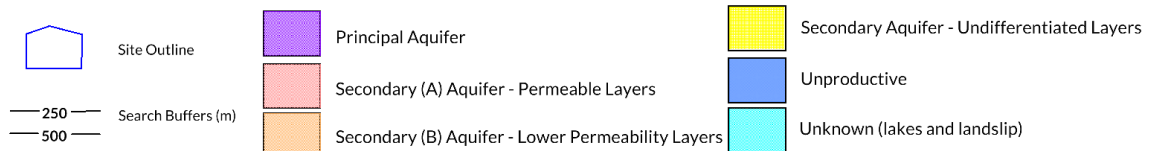
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

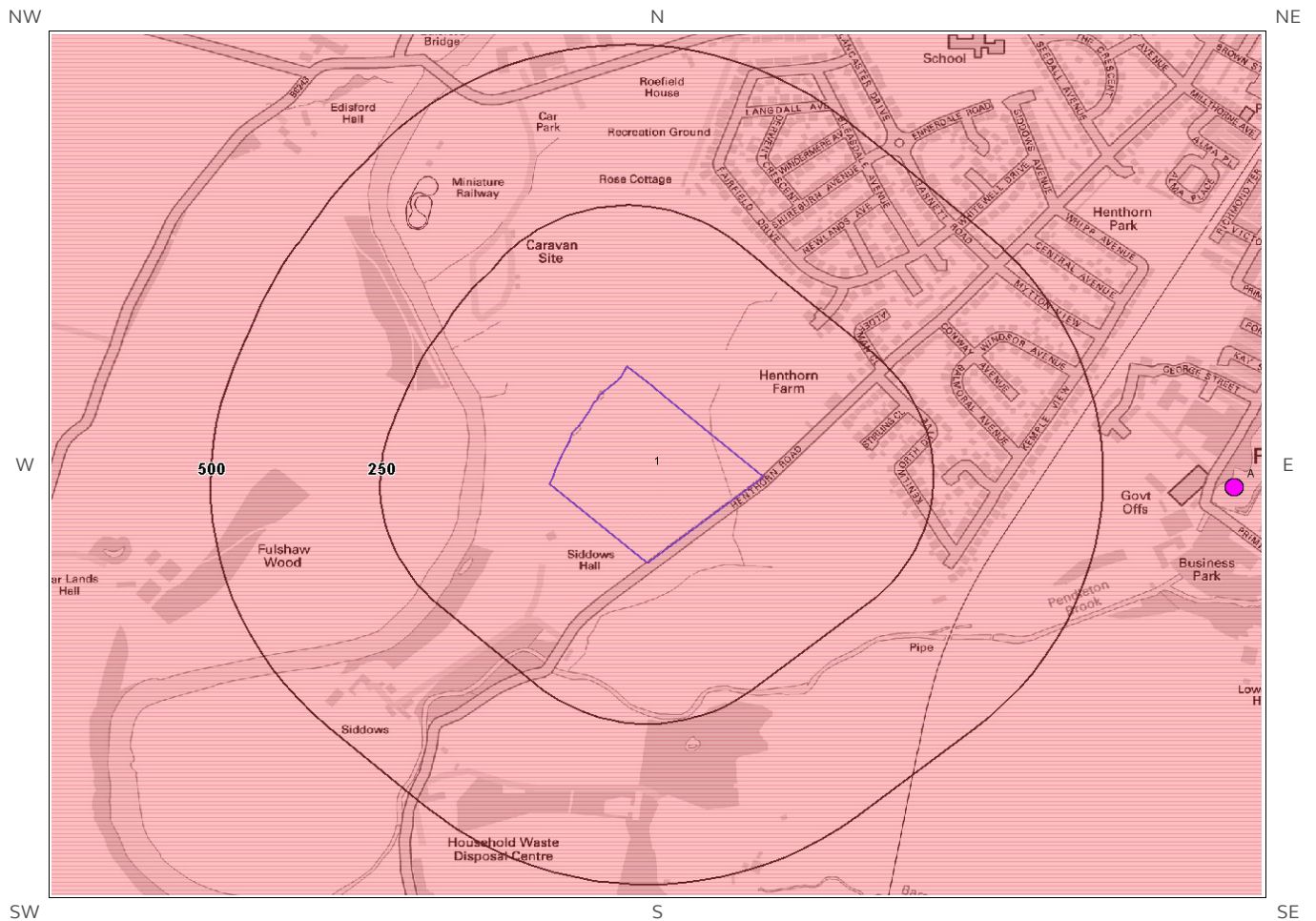
6a. Aquifer Within Superficial Geology



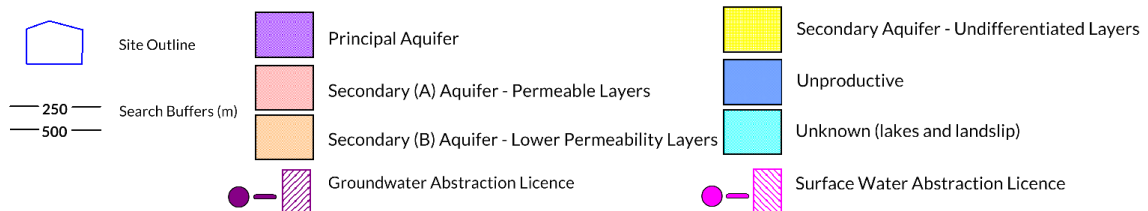
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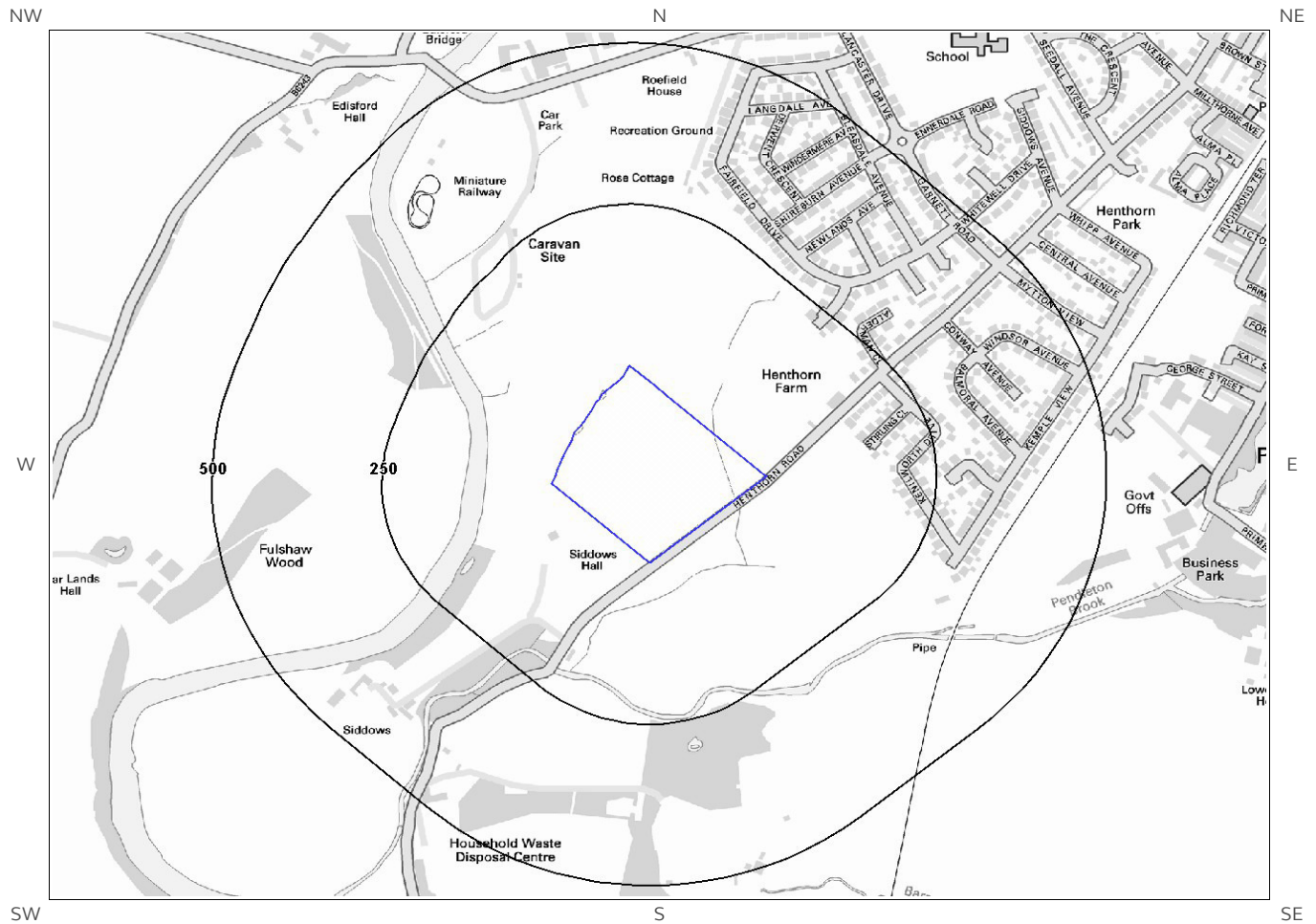
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



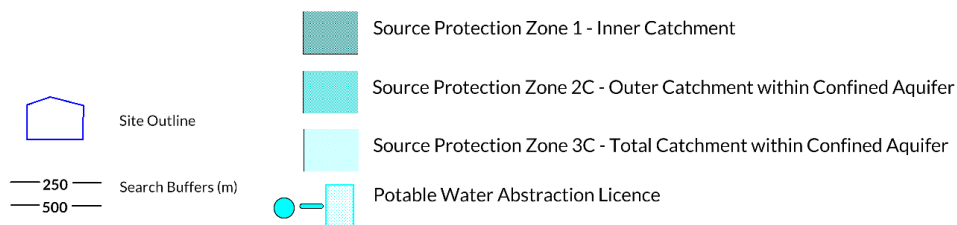
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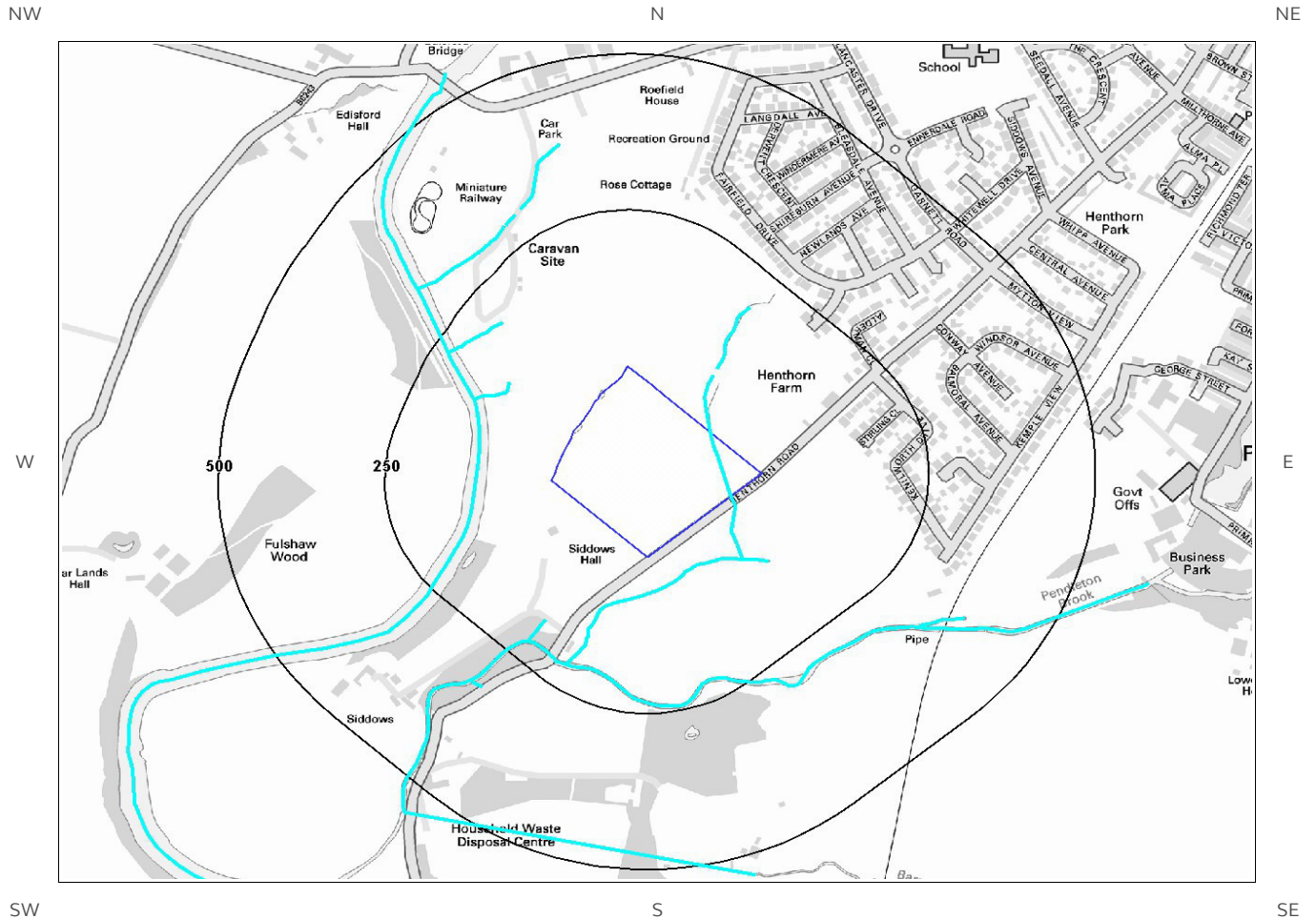
6d. Hydrogeology – Source Protection Zones within confined aquifer



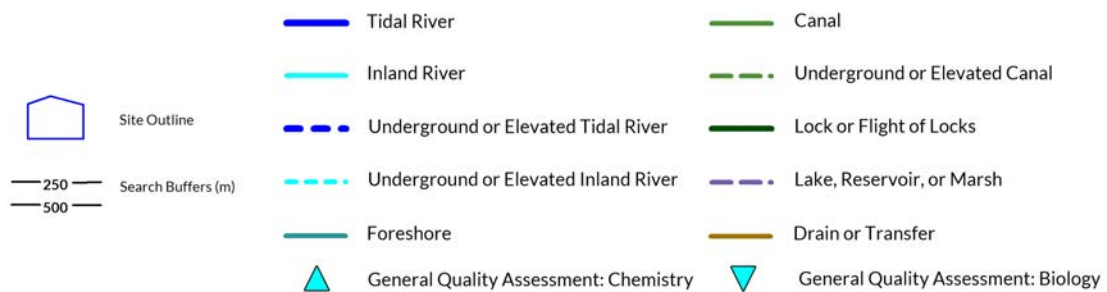
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6e. Hydrology – Watercourse Network and River Quality



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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
1	102	W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	218	S	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
5	257	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
8	434	NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

6.2 Aquifer within Bedrock Deposits

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

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

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

ID	Distance (m)	Direction	Designation	Description
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

None identified

Database searched and no data found.

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
3A	693	E	373800 440800	Status: Historical Licence No: 2671309033 Details: Transfer between sources Direct Source: Surface, Non-tidal - North West Region Point: Mearley Brk Feeding Primrose Lodge At Clitheroe \$314 Data Type: Point Name: STALWART DYEING CO LTD Annual Volume (m³): - Max Daily Volume (m³): - Application No: 4549 Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1966 Version End Date:
4A	693	E	373800 440800	Status: Historical Licence No: 2671309033 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Mearley Brk Feeding Primrose Lodge At Clitheroe \$314 Data Type: Point Name: STALWART DYEING CO LTD Annual Volume (m³): - Max Daily Volume (m³): - Application No: 4549 Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1966 Version End Date:
Not shown	822	E	373900 440600	Status: Historical Licence No: 2671309032 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Pendleton Brk@clitheroe Feeding Mill Pond,primrose Wks \$313 Data Type: Point Name: STALWART DYEING CO LTD Annual Volume (m³): - Max Daily Volume (m³): - Application No: 4549 Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/12/1993 Version End Date:
Not shown	822	E	373900 440600	Status: Historical Licence No: 2671309032 Details: Transfer between sources Direct Source: Surface, Non-tidal - North West Region Point: Pendleton Brk@clitheroe Feeding Mill Pond,primrose Wks \$313 Data Type: Point Name: STALWART DYEING CO LTD Annual Volume (m³): - Max Daily Volume (m³): - Application No: 4549 Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/12/1993 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	900	E	374000 440700	Status: Historical Licence No: 2671309032 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Pendleton Brk@clitheroe Feeding The Mill Pond, Primrose Wks Data Type: Point Name: STALWART DYEING CO LTD	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 4549 Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/12/1993 Version End Date:
Not shown	900	E	374000 440700	Status: Historical Licence No: 2671309032 Details: Transfer between sources Direct Source: Surface, Non-tidal - North West Region Point: Pendleton Brk@clitheroe Feeding The Mill Pond, Primrose Wks Data Type: Point Name: STALWART DYEING CO LTD	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 4549 Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/12/1993 Version End Date:
Not shown	1064	E	374100 441200	Status: Historical Licence No: 2671309033 Details: Transfer between sources Direct Source: Surface, Non-tidal - North West Region Point: Mearley Brk Feeding Primrose Lodge At Clitheroe Data Type: Point Name: STALWART DYEING CO LTD	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 4549 Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1966 Version End Date:
Not shown	1064	E	374100 441200	Status: Historical Licence No: 2671309033 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Mearley Brk Feeding Primrose Lodge At Clitheroe Data Type: Point Name: STALWART DYEING CO LTD	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 4549 Original Start Date: 16/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1966 Version End Date:
Not shown	1195	NE	374200 441300	Status: Historical Licence No: 2671309025 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Mearley Brk At Clitheroe Data Type: Point Name: JAMES THORNER LTD	Annual Volume (m³): 227300 Max Daily Volume (m³): 981.93 Application No: 3198 Original Start Date: 11/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1966 Version End Date:
Not shown	1195	NE	374200 441300	Status: Historical Licence No: 2671309025 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-tidal - North West Region Point: Nearley Brk At Clitheroe Data Type: Point Name: JAMES THORNER LTD	Annual Volume (m³): 227300 Max Daily Volume (m³): 981.936 Application No: 3198 Original Start Date: 11/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1966 Version End Date:
Not shown	1737	W	371100 441200	Status: Historical Licence No: 2671309019 Details: General Farming & Domestic Direct Source: "surface, Non-tidal - North West Region" Point: "spring Fed Storage Tank, At Withgill Knoll, Higher Hodder" Data Type: Point Name: BARNES	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 3489 Original Start Date: 20/5/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/1994 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1737	W	371100 441200	Status: Historical Licence No: 2671309019 Details: General Farming & Domestic Direct Source: Surface, Non-tidal - North West Region Point: Spring Fed Storage Tank, At Withgill Knoll, Higher Hodder Data Type: Point Name: BARNES	Annual Volume (m³): - Max Daily Volume (m³): - Application No: 3489 Original Start Date: 20/5/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/1994 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/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.
108	W	Minor Aquifer/High Leaching Potential	H1	Soils which readily transmit liquid discharges because they are shallow or susceptible to rapid flow directly to rock, gravel or groundwater.

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
Not shown	727	SW	372500 440100	River Name: Ribble Reach: Clitheroe Stw To Hodder End/Start of Stretch: Start of Stretch NGR	C	B	B	B	B
Not shown	727	SW	372500 440100	River Name: Ribble Reach: Stock Beck To Clitheroe Stw End/Start of Stretch: End of Stretch NGR	B	B	B	A	A
Not shown	739	N	372800 441720	River Name: Bashall Brook Reach: Qsl Bashall Hall To Ribble End/Start of Stretch: End of Stretch NGR	B	B	B	B	A

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAHl). 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	727	SW	372500 440100	River Name: Ribble Reach: Stock Beck To Clitheroe Stw End/Start of Stretch: End of Stretch NGR	A	A	A	A	A
Not shown	727	SW	372500 440100	River Name: Ribble Reach: Clitheroe Stw To Hodder End/Start of Stretch: Start of Stretch NGR	A	A	A	A	A
Not shown	739	N	372800 441720	River Name: Bashall Brook Reach: Qsl Bashall Hall To Ribble End/Start of Stretch: End of Stretch NGR	A	A	A	A	B
Not shown	825	N	372752 441799	River Name: Bashall Brook Reach: Qsl Bashall Hall To Ribble End/Start of Stretch: Sample Point NGR	A	A	A	A	B

6.10 Ordnance Survey MasterMap Water Network

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

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

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

ID	Distance/Direction	Name	Type of Watercourse	Additional Details
1	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
16	0 On Site	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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
2	53 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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	53 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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	72 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
18	72 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
4	90 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
19	90 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
5	105 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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	105 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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	113 W	River Ribble	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 33.9
21	113 W	River Ribble	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 33.9
7	118 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
22	118 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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
8	142 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
23	142 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
9	144 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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	144 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
10	148 W	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.2
25	148 W	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.2
11	158 W	River Ribble	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 26.1
26	158 W	River Ribble	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 26.1
12	175 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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	175 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
13	186 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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	186 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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
14	198 SW	Pendleton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.3
29	198 SW	Pendleton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.3
15	210 SW	Pendleton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.4
30	210 SW	Pendleton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.4
16	214 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
31	214 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
17	216 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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	216 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
18	218 SW	Pendleton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 6.2
33	218 SW	Pendleton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 6.2
19	227 NW	River Ribble	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 25.1
34	227 NW	River Ribble	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 25.1

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
20	285 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
35	285 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
21	290 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
36	290 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
22	305 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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	305 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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	319 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
38	319 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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	321 SW	Pendleton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 6.8
25	321 NW	River Ribble	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 29.9
39	321 SW	Pendleton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 6.8
40	321 NW	River Ribble	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 29.9

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
26	341 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 6.2
27	341 SE	Pendleton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.7
41	341 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 6.2
42	341 SE	Pendleton Brook	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 7.7
28	469 S	Barrow Clough	Inland river not influenced by normal tidal action.	Catchment Area: Ribble 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	469 S	Barrow Clough	Inland river not influenced by normal tidal action.	Catchment Area: Ribble Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided

6.11 Surface Water Features

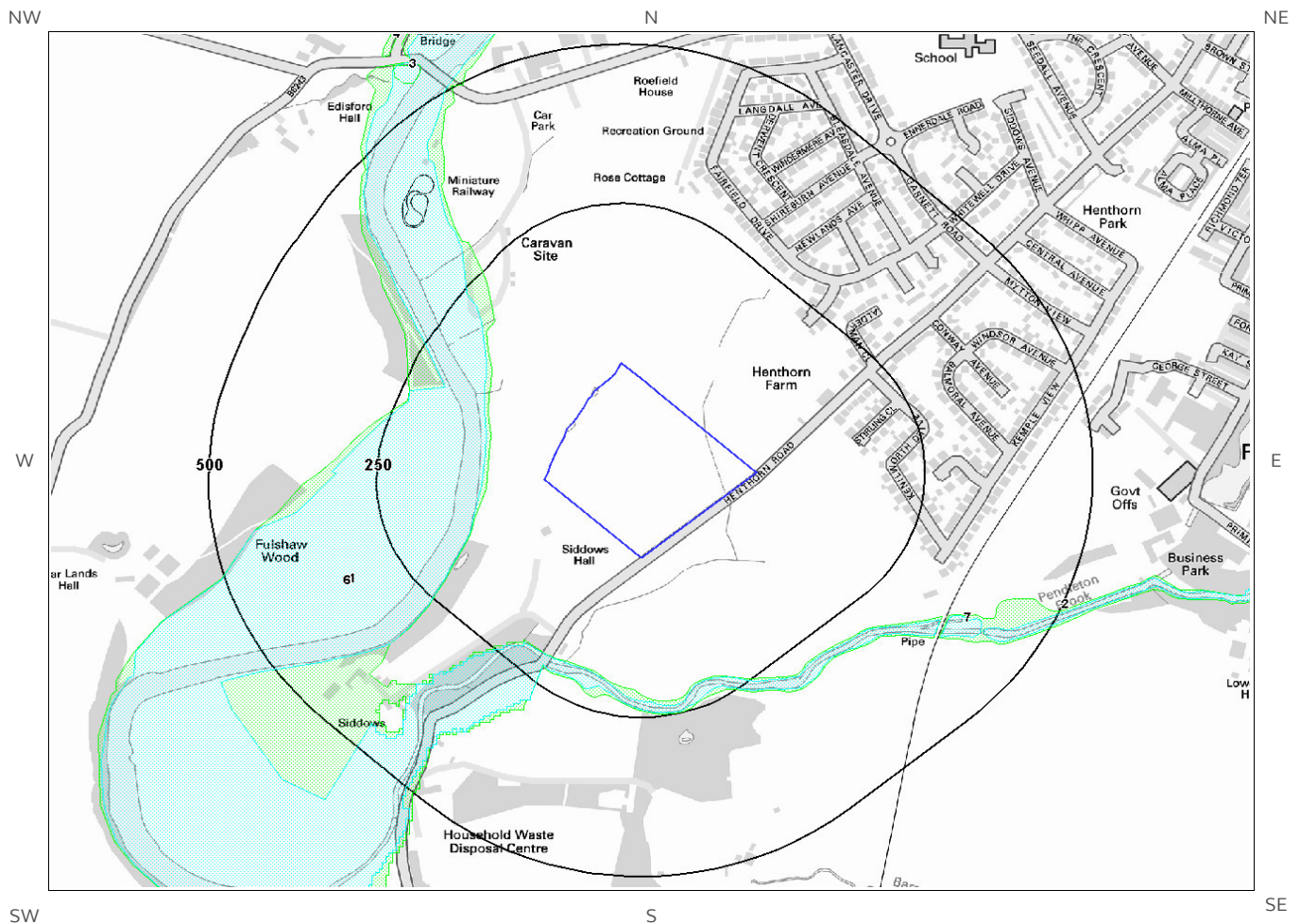
Surface water features within 250m of the study site

Identified

The following surface water records are not represented on mapping:

Distance (m)	Direction
0	On Site
12	SE
52	SE
54	SE
90	SE
98	W
114	NE
118	NW
128	W
163	SW
166	SW
175	SW
186	NW
195	SW
197	NW
216	NW

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



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