

# Caulmert Limited

Engineering, Environmental & Planning  
Consultancy Services

**Bridge Road North, Wrexham**

**JCP Investments Limited**

Proposed Storage And Distribution Unit

**Phase 1 and 2 Contaminated Land Assessment**

**Prepared by:**

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**Client:** JCP Investments Limited

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|                 |                                                   |             |            |
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## 1.0 INTRODUCTION

### 1.1 Details of Commission

- 1.1.1 Caulmert Limited (Caulmert) have been appointed by JCP Investments Limited (the Client) to undertake a Phase 1 Geo-Environmental Site Assessment and Phase 2 Assessment in relation to the proposed development of a storage and distribution unit and associated works at Bridge Road North, Wrexham Industrial Estate.
- 1.1.2 The Client proposes the development of one freestanding storage and distribution unit (Class B8) on land at Bridge Road North, Wrexham Industrial Estate, Wrexham. The site location and proposed layout are shown on the drawings included.

### 1.2 Objectives of the Report

- 1.2.1 The objective of this report is to provide a preliminary assessment of the potential risks posed by the ground conditions at the site to the proposed development. The report represents a combined Phase 1 (desk Study) and Phase 2 (site investigation) in line with current planning requirements.
- 1.2.2 The report follows the scope and principles presented in Development of Land Affected by Contamination, by the Welsh Government and NRW for the assessment of contaminated land. The following guidance and legislation apply to this document:
- Part IIA of the Environment Protection Act, 1990;
  - Contaminated Land (Wales) (Amendment) Regulations 2012 and
  - Contaminated Land Statutory Guidance (Welsh Government, April 2012);
  - Land contamination risk management (LCRM) EA 2021
  - Environment Agency- Groundwater protection formerly Groundwater Protection: Principles and practise -GP3,
  - BS 5930: 2015: "Code of practice for site investigations";
  - BS 10175: 2011 +A1:2013 "Investigation of Potentially Contaminated Sites- Code of Practice";

### 1.3 Limitations of this Study

- 1.3.1 The report is solely for the use of the Client and should not be relied upon by third parties without prior written consent from Caulmert. Information used within this report has been gathered from data sets compiled by third party organisations and purchased on behalf of the client. The validity and accuracy of this third-party information is outside the control of Caulmert.
- 1.3.2 Interpretation and recommendations contained within this report should not be assumed valid for adjacent areas of land or for alternative land uses and are based upon the proposed requirements of the development provided to Caulmert at the time of compiling this report.

## **1.4 Sources of Information**

1.4.1 A number of sources of information were used to support this report, these include:

- A site-specific environmental and geological report provided by Groundsure (Appendix 1);
- The British Geological Survey (BGS) online borehole database; and
- Publicly available information hosted by GOV.UK on DEFRA and Environment Agency pages.

## 2.0 SITE LOCATION AND DESCRIPTION

### 2.1 Site Setting

- 2.1.1 The site is set within the Wrexham Industrial Estate and is bounded by industrial/warehouse units occupied by Demon Tweeks Ltd, Isringhausen Ltd and Coolpoint Ltd. to the North, East and South West respectively, and by Bridge Road North to the south.
- 2.1.2 The surrounding area comprises of buildings, offices of similar use with some residential properties to the south-western part of the Wrexham Industrial Estate. Wrexham Town Centre is located approximately 5.7km to the west of Wrexham Industrial Estate and is served by two main railway stations; Wrexham Central and Wrexham General. There are direct routes to a number of surrounding cities/towns including Chester and Liverpool to the north, Crewe and Stoke-on-Trent to the east and Shrewsbury to the south. Wrexham Industrial Estate benefits from direct access to the A543 (Wrexham Road).
- 2.1.3 The location of the site is shown in Figure 1 below.



**Figure 2: Site Location of Bridge Road North proposed development**

### 2.2 Proposed Development

- 2.2.1 The proposed development involves the erection of a storage and distribution unit (Use Class B8) including the construction of car parking and servicing areas and associated landscaping.

- 2.2.2 The wider Wrexham industrial Estate has been developed on the former Cordite works (munitions factory). There is a generic requirement to undertake a contaminated land assessment for any new development on a non-greenfield site. This was therefore carried out for the proposed development at Bridge Road North, with the addition of an unexploded ordnance survey and explosives testing.

## 2.3 Site History

- 2.3.1 In compiling the risk assessment, the most recent environmental data provided by Groundsure was reviewed. A summary of the historical uses on and off-site, including potentially contaminative past uses is presented in Table 2.1 and Table 2.2 below.

**Table 2.1: On-site History**

| Potentially Contaminative Past Uses                                                                                                                                                                                                                                                                                                                                 |          |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|
| <b>Current Land Use</b><br>Coolpoint Ltd is situated adjacent to the designated site boundary. The site itself comprises a grassed area with a number of trees to the north of Coolpoint.                                                                                                                                                                           |          |      |
| <b>Surrounding Area</b><br>Area situated within Wrexham Industrial Park, 2.5miles from the centre of Wrexham. Current estate covers 550 hectares of land with over 300 businesses.                                                                                                                                                                                  |          |      |
| <b>North:</b> Industrial units including Demon Tweaks Ltd and UberKids (c.20m).                                                                                                                                                                                                                                                                                     |          |      |
| <b>East:</b> Isringhausen Ltd industrial unit(c.30m), hedge row (eastern boundary line) under which a power cable was detected (not live).                                                                                                                                                                                                                          |          |      |
| <b>South:</b> Bridge Road North (directly adjacent), Proserve Industrial Ltd industrial unit (c.40m)                                                                                                                                                                                                                                                                |          |      |
| <b>West:</b> Cable Services Group industrial unit (c.15m) and Ash Road South (c.115m)                                                                                                                                                                                                                                                                               |          |      |
| Site History Description                                                                                                                                                                                                                                                                                                                                            | Map Date |      |
|                                                                                                                                                                                                                                                                                                                                                                     | From     | To   |
| Site is shown within an open agricultural pastureland area with a road running through the site, north to south                                                                                                                                                                                                                                                     | 1872     | 1938 |
| Wrexham Royal Ordnance Factory construction started in 1939, with operations ceasing in 1945. Not shown on contemporary OS maps.                                                                                                                                                                                                                                    | -        | -    |
| Wrexham Industrial Estate established. Development of road network (now Bridge Road North) built around the site area.<br>Munitions buildings and factory works present surrounding the site area. Unidentified bunds present in the north west corner. North to south road seen since 1872 now removed. Minor access road across the north east corner of the site | 1961     | 1982 |

|                                                                                                                    |      |         |
|--------------------------------------------------------------------------------------------------------------------|------|---------|
| Road which intersected the NE area removed, as well as all bunds and stores associated with the Munitions Factory. | 1988 | 1989    |
| Development of the current warehouse adjacent to the site (presently Coolpoint).                                   | 1989 | 2003    |
| Cable Services Group warehouse built to the west of CoolPoint warehouse.                                           | 2021 | Present |

**Table 2.2: Off-site history**

| <b>Potentially Contaminative Past Uses</b>                                                                                                                                                                                                                                                                 |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Originally the site of a World War II munitions factory. Site covered approximately 550 hectares and the largest industrial estate in Wales. The ROF Wrexham factory produced cordite, as explosive propellant for shells. The complex was spread over a large area to minimise damage from aerial attack. |             |
| After the war, the need for Cordite ceased and in 1945 the production facilities at Wrexham closed. Many of the building were left in place, abandoned and agriculture took over fields surrounding the area.                                                                                              |             |
| 1951- Ministry of Works built large water abstraction and treatment plant at Sesswick on the River Dee which was amalgamated into the Wrexham Water Company.                                                                                                                                               |             |
| All cordite produced on site was transported along Military Usage Railway. Locomotives with diesel engines were used instead of steam trains as they were less likely to ignite any stray cordite.                                                                                                         |             |
| <b>UXO Ordnance Risk Assessment</b>                                                                                                                                                                                                                                                                        |             |
| Potential unexploded ordnance (UXO) risk has been identified at the site by SafeLine Global Limited as part of the Groundsure Report as follows.                                                                                                                                                           |             |
| Indicative British/Allied UXO Risk                                                                                                                                                                                                                                                                         | MEDIUM      |
| Indicative German UXO Risk                                                                                                                                                                                                                                                                                 | NEGLECTIBLE |
| Manufacture of Explosives and Explosive Ordnance. Wrexham facility ROF, WWII located 1km from site boundary                                                                                                                                                                                                |             |

## 2.4 Site Walkover Survey

- 2.4.1 A site walkover survey was undertaken and completed by Caulmert on 9<sup>th</sup> May 2022. A summary of observations made during the visit is presented in Table 2.3 below and photographs are included in Appendix 2.

**Table 2.3: Summary of Observations from the Site Walkover Survey.**

| Observations                    | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Buildings and Structures</b> | <p>None on site.</p> <p>Adjacent to site –</p> <p>Single story Coolpoint warehouse.</p> <p>Large warehouse with hard standing courtyard to the front.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Topography</b>               | - The site is level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Site Access</b>              | - Access to Site shared with the adjacent Coolpoint warehouse from Bridge Road North. Paved driveway along the eastern side of the Coolpoint warehouse leads to the northern portion of the site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Site Surface</b>             | - Grassland makes up the majority of the site area. The only exception is a small, paved turning area to the east of the Coolpoint warehouse. This is part of the main paved driveway and loading area associated with the warehouse.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Services</b>                 | <p>- No gas meters were identified on site or in its immediate vicinity.</p> <p>- No overhead services were visible at the site.</p> <p>- Buried services were visible within the site boundary and included drainage with manhole covers.</p> <p>- No electrical buried services were identified on the service plans, however, the CAT Scan detected inactive electrical cables along the eastern boundary line, as well as in the north eastern corner of the site. An unidentified services from the western boundary to the centre of the site were also detected by CAT Scan. A large, uncovered, concrete, cylindrical drainage inspection point was located in the centre of the site.</p> <p>A solid metal manhole was located in the south eastern segment of the site, from which services were indicated to run in an eastern direction across the site from this point. Services were also detected in between the paved turning area and the eastern boundary of the site.</p> |
| <b>Vegetation</b>               | <p>- The majority of the site comprises mixed grasses and reeds. The northern and north eastern boundary contains a row of trees. There is one relatively large tree located in the north eastern corner of the site. There is another small area of trees in the south eastern portion of the site, dividing the area adjacent to the Coolpoint Warehouse and remainder/majority of the site.</p> <p>-There was no evidence of any vegetation distress. Or invasive species.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Surface Water Features</b>   | <p>- Runoff from the paved hard standing is collected in a subsurface ACO drain that travels in a south easterly direction. This drain considered to be associated with the adjacent warehouse.</p> <p>No natural surface water bodies are present on the site.</p> <p>A large concrete drainage pipe located in the centre of the site may be associated with a former surface water management scheme to drain the area.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Potential Contaminative</b>  | - An above ground, bunded fuel storage tank was identified on eastern side of the Coolpoint warehouse, adjacent to the site boundary of the proposed development. This was located on the paved hard standing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Observations                                      | Comments                                                                                                                                                                                                                                                                |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sources (on site)</b>                          | <ul style="list-style-type: none"><li>- No separate ventilation pipes were identified.</li><li>-A large concrete below ground tank is possibly present between the warehouse and the paved turning area. This had one manhole cover and no ventilation pipes.</li></ul> |
| <b>Potential Contaminative Sources (off site)</b> | <ul style="list-style-type: none"><li>- Coolpoint refrigeration servicing warehouse is located adjacent to the site's boundary. No outdoor storage or handling areas were identified in relation to the refrigeration servicing operations.</li></ul>                   |

### 3.0 ENVIRONMENTAL INFORMATION

#### 3.1 Environmental Setting

3.1.1 The data in Table 3.1 below was compiled from the Groundsure Report (Appendix 1), together with observations made during the site walkover survey.

**Table 3.1: Summary of Environmental Information**

| Reference                                        | Description                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Geology</b>                                   |                                                                                                                                                                                                                                                                                                                                                  |
| Artificial Geology                               | - There is a record of made ground, artificial disturbed ground and landscaped ground shown on the site according to the Groundsure data                                                                                                                                                                                                         |
| Superficial Deposits                             | On site;<br>1- Till, Devensian – Diamicton<br>149 m West;<br>- Alluvium – Clay (unlithified Deposits)<br>The potential for landslide ground stability is recorded as <i>low</i> , with none recorded within 500m of the site.<br>Superficial permeability flow type is mixed ranging from high to low.                                           |
| Solid Geology & Faults                           | On site;<br>- Salop Formation – sedimentary rock cycle, coal measure type. Cisuralian Epoch – Westphalian D Sub-age.<br>- Salop Formation – mudstone. Cisuralian Epoch – Westphalian D Sub-age.<br>402 m SE;<br>- Kinnerton Sandstone Formation – early Triassic Epoch.<br>- There are no records of geological faults within 500 m of the site. |
| Radon Data                                       | - The site is within a radon affected area of less than 1 %<br>- No radon protective measures are required according to the Groundsure data.                                                                                                                                                                                                     |
| <b>Ground Workings</b>                           |                                                                                                                                                                                                                                                                                                                                                  |
| Historical Surface Ground / Underground workings | -There is one record of a surface ground working identified by Groundsure as an 'unspecified heap' from the 1992 mapping, located 6 m NW of the site. A further 16 surface ground workings are recorded between 50 to 250m of the site<br>- There are no records of historical underground workings on the site or within 1000 m of the site.    |
| Current Ground Workings                          | - There are no records of current, onsite surface or underground ground workings.                                                                                                                                                                                                                                                                |
| <b>Mining, Extraction &amp; Natural Cavities</b> |                                                                                                                                                                                                                                                                                                                                                  |
| Historical and Coal mining                       | - The Site is located within a historical coal mining area, as defined by the Coal Authority. It is however not within an area of coal mine abandonment and there are no recorded mine entries within 1000m of the site. The Coal mining risk is considered to be low.                                                                           |
| Non-Coal Mining                                  | - There are no non-coal mining areas located within 1,000m of the site.                                                                                                                                                                                                                                                                          |
| <b>Railways &amp; Tunnels</b>                    |                                                                                                                                                                                                                                                                                                                                                  |
| Historical Railway & Tunnel Features             | - There are no Railway infrastructure and projects identified within the site boundary.<br>- Historic Railway Sidings were located in proximity to the site at:                                                                                                                                                                                  |

| Reference                                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         | 49 m W (1982); 55m SE (1964); 79m E (1959) ; and 81m SE (1949).<br>- There are no underground railways, tunnels, historical, railways, cross-rails or HS2 lines onsite or within 1000m of the site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Active Railways                                         | - There are no active railway sites within the site boundary<br>- There are no active railway sites within 1000m of the site boundary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Estimated Background Soil Chemistry</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Soil Chemistry                                          | - There are 2 records of estimated soil chemistry within 50m of the site as follows:<br>On Site (2 entries with the same results, below)<br>Sample Type: Sediment<br>Arsenic (As) : 15 mg/kg<br>Cadmium (Cd) : 1.8 mg/kg<br>Chromium (Cr): 60 – 90 mg/kg<br>Nickel (Ni) : 15 – 30 mg/kg<br>Lead (Pb): 100 mg/kg<br>Bioaccessible Lead (Pb): 60 mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Environmental Permits, Incidents and Registers</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Industrial Sites Holding Licences and/or Authorisations | - There are 2 records of historic IPC authorisations within 500 m of the site.<br>- There are 45 recorded Part A(1) and IPPC Authorised Activities within 500 m of the site.<br>- There are 7 records of licensed pollutant releases (Part A(2)/B) within 500m o the site<br>- There are 4 records of radioactive substance authorisations within 500m of the site. All of which were revoked/cancelled in 2015.<br>- There are no red list discharge consents (potentially harmful discharges to the public sewer) within 500 m of site;<br>- There are no records of list 1 dangerous substances inventory sites within 500 m of site;<br>- There are 2 records of list 2 dangerous substances inventory sites within 500 m of site. One of which is active - Welsh Development Agency located 180m SW of the site, with authorised substances biphenyl<br>- There are 18 records of licensed discharge consents to controlled waters within 500m of the site, the closest located:<br>26m W<br>Effluent Type: Unspecified<br>Receiving Water: Redwither Brook |
| Dangerous or Hazardous Sites                            | - There are no records of COMAH & NIHHS sites within 500m of the site.<br>- There are no records of regulated explosive sites or sites granted consents for hazardous substance storage/usage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Environment Agency Recorded Pollution Incidents         | - There are 52 records of pollution incidents recorded within 500m of the site boundary. None are on site. A full list of NRW incidents are in Table 4.18 of the Groundsure report, the 3 nearest incidents are as follows:<br><br>75m E<br>Incident Date: 08/05/2013<br>Incident Identification: 1110907<br>Pollutant: Atmospheric Pollutants and effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Reference                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              | <p>Pollutant description: Smoke<br/>Land Impact: Category 4 (No impact)<br/>Air impact: Category 4 (No impact)</p> <p>119m NW<br/>Incident Date: 04/10/2003<br/>Incident Identification: 194336<br/>Pollutant: Inorganic Chemicals/Products<br/>Pollutant description: Acids<br/>Water Impact: Category 4 (No impact)<br/>Land Impact: Category 4 (No impact)<br/>Air impact: Category 4 (No impact)</p> <p>125m W<br/>Incident Date: 08/12/2015<br/>Incident Identification: 1393353<br/>Pollutant: Multiple Pollutants<br/>Pollutant description: 2 pollutants including suspended solids<br/>Land impact: Category 4 (No impact)<br/>Air Impact: Category 4 (No impact)</p> <p>- There is 1 record of national incidents recording system Category 1 within 500 m of site. The details of which follows:<br/>433m S<br/>Incident Date: 19/07/2006<br/>Incident Identification: 418682<br/>Pollutant: Contaminated Water<br/>Pollutant description: Firefighting Run-off<br/>Water impact: Category 1 (Major)<br/>Land impact: Category 2 (Significant)<br/>Air Impact: Category 2 (Significant)</p> |
| Sites Determined as Contaminated Land under Part 2A EPA 1990 | - None identified within 500 m of the site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Landfill and Other Waste Sites</b>                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Landfill sites                                               | <p>-There are 2 records of active or recent landfill sites within 500m, both located 112m E of the site and registered to the Welsh Assembly Government (EPR References WDA001 and WDA002)</p> <p>- There are 4 records of historic landfill sites within 500m of the site. All of which are registered to British Celanese Limited between 1953 and 1983</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Other Waste Sites                                            | <p>-There are 6 records of historical waste sites within 500m of the site boundary. These include: Waste Incineration Plant, Waste Transfer Station, Asbestos Waste Transfer Station, Waste Recovery Centre, Tyre Recycling Centre</p> <p>-There are 87 records of licensed waste sites within 500m of the site boundary, the closest of which is 186m E. Records include the following: Other Landfill taking special waste, physical treatment facility, clinical waste transfer station, Household, commercial and industrial waste transfer station, chemical treatment facility, metal recycling sites (vehicle dismantler), material recycling</p>                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Reference                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | <p>treatment facility, biological treatment facility and special waste transfer station.</p> <p>-There are 14 records of waste exemptions within 500m of the site, the closest of which is 168m NE. There are 7 records of treating waste exemptions, 5 of storing of waste exemptions and 2 records of storing wate exemptions.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Current Land Uses</b>                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Current Industrial Data                                     | <p>- There are 26 recorded potentially contaminated industrial sites within 250 m of the site.</p> <p>None of these are on site, the closest is located 16m W of the site boundary. Records include the following:</p> <p>Industrial products</p> <p>Consumer products</p> <p>Construction services</p> <p>Infrastructure and facilities</p> <p>Health support services</p> <p>Transport storage and delivery</p> <p>Repair and servicing</p> <p>- There are no recorded open, closed, under development or obsolete petrol stations within 500m of the site boundary.</p> <p>- There are no recorded open, high voltage underground electricity transmission cables within 500m of the site boundary.</p> <p>- There are no recorded high pressure underground gas transmission pipelines within 500m of the site boundary.</p> |
| <b>Hydrogeology and Hydrology</b>                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Aquifer Within Superficial Deposits                         | <p>- The site is within a Secondary Undifferentiated aquifer designation. "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 due to the variable characteristics of the rock type."</p> <p>- 143m W of the site is a Secondary A aquifer designation. "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."</p>                                                                                                                                                                                                   |
| Aquifer Within Bedrock Deposits                             | <p>- There are 2 records for aquifers within the bedrock deposits located on site: Both are designated <b>Secondary A</b> "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."</p> <p>- There is 1 record 419m SE of the site:</p> <p>Designated Principal aquifer "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."</p>                                                                                                                        |
| Groundwater Vulnerability                                   | <p>- Both superficial deposits and bedrock aquifers on site are classified as low groundwater vulnerability. "Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability."</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Groundwater / Surface Water & Potable Abstractions Licences | <p>- There are 11 records of groundwater abstraction licences within 2000 m of the site.</p> <p>- There is 1 record of a surface water abstraction licences within 2000 m of the site – 695m NW</p> <p>Status: Historical</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Reference                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                    | <p>Licence No. 24/67/7/0178</p> <p>Details: Non-Evaporative Cooling</p> <p>Point: Tributary of Red wither brook</p> <p>- There are 0 records for potable water abstraction licences located within 2000 m of the site.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Source Protection Zones                            | <p>- The site is not located within a source protection zone. There are 2 records of source protection zones within 500m of the site, zone 3 located 328m SE and zone 2 located 346m SE.</p> <p>- The site is not located within a source protection zone within a confined aquifer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detailed River Networks and Surface Water Features | <p>- There are records of 13 detailed water networks and drainage located within 250 m of the site.</p> <p>- There are records of 6 surface water features within 250 m of the site.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| WFD Surface water/ groundwater bodies              | <p>-There are 2 records of WFD surface water body catchments on site, as follows:</p> <p>Type: River WB catchment</p> <p>Water Body Catchment: Clywedog – Dee to Gwenfro</p> <p>Water body ID: GB111067052110</p> <p>Operational catchment: Clywedog – Dee</p> <p>Management catchment: Dee</p> <p>Type: River WB catchment</p> <p>Water Body Catchment: Dee – Chester Weir to Ceiriog</p> <p>Water body ID: GB111067057080</p> <p>Operational catchment: Dee Lower Chester Weir to Ceiriog</p> <p>Management catchment: Dee</p> <p>-There is 1 record of WFD groundwater bodies on site:</p> <p>Name: Dee Permo-Triassic Sandstone</p> <p>Water body ID: GB41101G202400</p> <p>Overall rating: poor</p> <p>Chemical rating: poor</p> <p>Quantitative: Good</p> <p>Year: 2019</p> |
| <b>Flooding</b>                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Flood Risk                                         | <p>- There are no records of Risk of Flooding from Rivers and Sea within 50m of the site.</p> <p>- There are no records of Historical Flood Events within 250m within the site boundary.</p> <p>- There are no areas benefiting from flood defences within 250m of the site.</p> <p>- There are no areas benefiting from flood storage within 250m of site.</p> <p>- The site is not within a Flood Zone 2 of Flood Zone 3 area.</p> <p>- The highest risk of surface water flooding on site is 1 in 100 year, 0.1m – 0.3m</p> <p>- Regional mapping data indicates that the site lies within a British Geological Survey (BGS) a low groundwater flooding susceptibility area.</p>                                                                                               |
| <b>Designated Environmentally Sensitive Sites</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Environmental Designations                         | <p>- There are no records of the following designations within 2000m of the site boundary:</p> <p>Sites of Special Scientific Interest (SSSI)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Reference                               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | <p>Ramsar Sites</p> <p>Special Areas of Conservation (SAC)</p> <p>Special Protection Areas (SPA)</p> <p>National Nature Reserves (NNR)</p> <p>Local Nature Reserves (LNR)</p> <p>Biosphere Reserves</p> <p>Forest Parks</p> <p>Marine Conservation Zones</p> <p>Green Belt</p> <p>- There are 11 Designated Ancient Woodland records located within 2000m of the site boundary, of which the nearest is 456m W and is an 'Restored Ancient Woodland Site.'</p> <p>- There are no records of Nitrate Sensitive Areas or Nitrate Vulnerable Zones within 2000m of the site boundary.</p> <p>- There are no proposed Ramsar sites, Possible Special Areas of Conservation (pSAC) or Potential Special Protection Areas (pSPA) located within 2000m of the site boundary.</p> |
| Habitat Designations                    | <p>-There are no records of the following designations within 250m of the site boundary:</p> <p>Priority Habitat Inventory</p> <p>Habitat Networks</p> <p>Open Mosaic Habitat</p> <p>Limestone Pavement Orders</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Agricultural Designations               | <p>-There are no records of the following designations within 250m of the site boundary:</p> <p>Agricultural Land Classification</p> <p>Open Access Land</p> <p>Tree Felling Licences</p> <p>Environmental Stewardship Schemes</p> <p>Countryside Stewardship Schemes</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Visual and Cultural Designations</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Visual and Cultural Designations        | <p>-There are no records of the following designations within 250m of the site boundary:</p> <p>World Heritage Sites</p> <p>Areas of Outstanding Natural</p> <p>National Parks</p> <p>Listed Buildings</p> <p>Conservation Areas</p> <p>Scheduled Ancient Monuments</p> <p>Registered Parks and Gardens</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### 3.2 Unexploded Ordnance

- 3.2.1 The site sits within previously developed land on the former Cordite works (munitions factory). Therefore, a Groundsure Preliminary Unexploded Ordnance Risk Assessment report was acquired for the site (Appendix 1).

- 3.2.2 The Groundsure Preliminary Unexploded Ordnance Risk Assessment report identified 'medium' risk levels for Indicative British/Allied UXO Risk.

*'there are potential sources of British/Allied UXO recorded in Dynasafe BACTEC's historical database in proximity to the site. It is recommended that further research is undertaken to determine more about these potential sources and how they may have affected the site. Given the proximity of these sources, the risk on site from UXO is considered to be Medium.'*

- 3.2.3 The Groundsure Preliminary Unexploded Ordnance Risk Assessment report identified 'negligible' from German unexploded bombs at this site.

*'Historical records indicate a negligible level of bombing density from WWII.'*

- 3.2.4 Search results indicated the following potential sources of explosive ordnance recorded in Table 3.2 below. It is identified in Table 3.3 that the proposed development lies within the vicinity of a facility used to produce explosives and/or fill ordnance with explosive and chemical constituents.

**Table 3.2: Potential Sources of explosive ordnance recorded within 10km**

| Source                                                                | Number within 10km |
|-----------------------------------------------------------------------|--------------------|
| Military Airfield Sites                                               | 1                  |
| Bombing Decoy Sites                                                   | 2                  |
| Press Articles regarding UXO Finds                                    | 1                  |
| WWII Defence Related Positions & Pillboxes                            | 17                 |
| Historic Army Camps                                                   | 5                  |
| Army Explosive Ordnance Clearance Tasks/Recces                        | 2                  |
| Sites Related to the Manufacture of Explosives and Explosive Ordnance | 2                  |
| SafeLane Global Desk-top Threat Assessment                            | 1                  |
| Abandoned Bombs                                                       | None Recorded      |
| Prisoner of War Camps                                                 | None Recorded      |
| Military Training Areas and Firing Ranges                             | None Recorded      |
| Heavy Anti-Aircraft Batteries                                         | None Recorded      |
| Pipe Mined WWII Airfields                                             | None Recorded      |
| WWII Pipe Mined Locations                                             | None Recorded      |
| SafeLane Global Unexploded Ordnance Finds                             | None Recorded      |
| SafeLane Global On-Site Support Services                              | None Recorded      |

**Table 3.3: Sites related to the Manufacture of Explosives and Explosive**

| Facility Name      | Approximate Distance (km) from site |
|--------------------|-------------------------------------|
| Wrexham, ROF, WWII | 1.0                                 |

## 4.0 PRELIMINARY RISK ASSESSMENT

### 4.1 Introduction

- 4.1.1 This section assesses the potential risks posed by contamination within the proposed development area with respect to human health, the natural environment and the built environment. The risk assessment is a preliminary qualitative source-pathway-receptor of the type recommended in current guidelines.
- 4.1.2 This is a preliminary risk assessment based on the desk study, site walkover and proposed development. The objective of the risk assessment is to demonstrate whether or not there is a potential pollutant linkage existing at the site which may present an unacceptable risk to human health and controlled water.
- 4.1.3 For there to be a potential risk from contamination, a complete source-pathway-receptor pollutant linkage must exist, or potentially exist, during and after development of the site. Each aspect of the pollutant linkage is described below:
- 4.1.4 Source (contaminant): A substance that is in or under the land that has the potential to cause harm to the receptor.
- 4.1.5 Pathway: The route(s) or means via which a receptor can be exposed to, or affected by, a contaminant.
- 4.1.6 Receptor: The factor (person, built environment or ecosystems) that might adversely be affected by the source.
- 4.1.7 Risk can be defined as the combination of the consequence or a harmful effect and the probability of its occurrence. The existence of a pollutant linkage is heavily dependent on-site use, as well as environmental conditions

### 4.2 Conceptual Site Model

- 4.2.1 The conceptual site model (CSM) constitutes a preliminary or interim risk assessment which determines only the likelihood of a linkage being present. The CSM is described below and displayed in Figure 2, Section 7.5.

#### Sources

- 4.2.2 Based on the desk study presented above, it is considered that the presence of the large historical cordite munitions factory (which ceased in 1945) may have resulted in potential sources of contamination. It is therefore considered that ground investigation is recommended, including for the trial pitting and laboratory analysis comprising of a basic suite of metals and a further testing for residual explosives analytical suite to address the past historic land use.

## Receptors

- 4.2.3 Surrounding site includes Wrexham Industrial estate road networks. The groundwater receptors include a Secondary Undifferentiated aquifer within the superficial deposit and a Secondary A aquifer within the bedrock. These are classified as low vulnerability.
- 4.2.4 There are no surface water receptors on site and the nearest surface water abstraction point was identified as a historical abstraction 1087 m to the north, at a tributary of Redwither Brook.

## Pathways

- 4.2.5 Potential pollutant linkage that could exist at the site includes migration through permeable landscaped ground.
- 4.2.6 The assessment assumes that the site will be used for commercial/industrial use only. The potential pollution linkages on the site are summarised in Table 4.1 below.

**Table 4.1: Summary of Potential Pollutant Linkages**

| Potential Source                                 | Pathway    | Potential Receptor                    | Comments                                                                                                      |
|--------------------------------------------------|------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------|
| landscaped ground                                | Ground gas | Site users                            | Ground gas regime unknown. Due to the presence of landscaped ground there is potential for gas to be present. |
| Historical site use – WWII Munitions Development | Ground     | Site users, building & infrastructure |                                                                                                               |

## **5.0 PHASE 1 CONCLUSIONS**

### **5.1 Summary**

- 5.1.1 This Phase 1 desk study report has indicated that the overall site has a significant industrial legacy with historical uses as a munitions factory which was then developed into Wrexham Industrial Estate. It is assumed that unless proven otherwise, the pathways and source of contamination from previous site use and activities may still exist.
- 5.1.2 The contaminants of concern include those linked to munitions factory including heavy metals, potentially asbestos and explosive contaminants.
- 5.1.3 The desk study indicated that the site is located in a negligible to medium risk area of potential explosive ordnance, with several facilities within 10km screening distance and Wrexham ROF within 1 km of the site boundary.
- 5.1.4 In conclusion, the preliminary risk assessment has demonstrated that there are potential pollution linkages present at the site which may pose a risk to future site uses. Recommendations for a Phase 2 investigation will reduce the uncertainty by characterising the source term(s) present within the site area.

### **5.2 Recommendations for Further Investigation- Phase 2**

- 5.2.1 A Phase 2 intrusive ground investigation was required to determine soil geochemistry on site and confirm whether the pollutant linkages identified in the desk study are valid on site.

## 6.0 PHASE 2 INVESTIGATION

6.1.1 This Phase 2 site investigation was designed to target the areas of potential sources of contamination identified in the Phase I Report, Site Walkover and historic map review.

### 6.2 Ground Investigation – Sampling Strategy

#### *Sampling Strategy*

6.2.1 The ground conditions were investigated by means of trial pitting which allowed for the detailed examination of the arisings for lithological description and any visual and olfactory evidence of contamination. The exploratory pits also permitted the collection of soil samples for laboratory analysis. The exploratory locations are shown on Figure 3 below.



**Figure 3: Trial Pit Locations**

6.2.2 Fifteen Trial Pits (TP 1 – 15) were distributed across the entire site, allowing for even spatial coverage of the site. Samples were collected at a shallow depth where there was evidence of made ground, or a variation in the natural ground. Trial pits were terminated on encountering stiff natural clay deposits considered to represent a barrier to any vertical migration of contamination.

6.2.3 Trial pits 1 and 3 targeted the area of potential runoff from the concrete pad should there have been any historic spills associated with the above ground tank.

6.2.4 Trial Pits 8, 11 and 12 located near the central manhole to determine if any contamination associated with this.

6.2.5 Trial pit 13 was situated in the location of historic bunding associated with the Munitions Works.

### **6.3 Chemical Analysis Strategy**

6.3.1 The analytical suite for the soils (Table 7.2 below) were selected based upon the past land uses and the findings of the Phase I report and focused upon the different made ground encountered.

6.3.2 The chemical analysis aimed to identify any past or concurrent contamination of the soil with respect to the proposed development of the site. A general contaminated land screening suite comprising pH TPH, SOM and CLEA metals was undertaken. In addition, a specific residual explosive suite was included to reflect the legacy of the site.

6.3.3 No groundwater was encountered during the ground works.

6.3.4 Samples of the soil were collected in appropriate containers supplied by the UKAS accredited laboratory. All samples were placed within a cool box and dispatched within 24 hours of collection.

6.3.5 The samples were analysed in accordance with the procedures set out in the Environment Agency's Monitoring Certification Scheme (MCERTS), where MCERTS methods are applicable. The testing laboratory used to complete the soils and water analyses was SOCOTEC, who also supplied the cool boxes and the appropriate sampling containers.

## 7.0 GROUND INVESTIGATION

### 7.1 Preliminaries

- 7.1.1 The site investigation was undertaken on the 9<sup>th</sup> May 2022. Weather was partly cloudy, with no rain for the duration of the works. The average temperature was 14°C, and there was a wind from the SW at a speed of approximately 12 mph.
- 7.1.2 Thomas Plant Hire provided a JCB excavator, driver, banksman and health and safety representative who performed scans for electrical services.
- 7.1.3 All works were undertaken under the supervision of a Caulmert Engineer who was also responsible for exploratory locations, logging of the trial pits and collection of samples for laboratory testing.

### 7.2 Limitations

- 7.2.1 It should be noted that the trial pits represent discrete locations of investigation, and whilst every effort has been made to characterise the area fully, the exploratory pits and the laboratory testing results reflect the soil quality only in those specific locations.
- 7.2.2 The trial pits were excavated to intercept the top of the natural geology (clay) where possible, and the depths to the base of the excavations is summarised in Table 7.1. Depths are shown in metres below ground level. The trial pits were not excavated deeper than the level of the superficial deposits as this would have the potential to form a new pathway to underlying strata. The maximum depth of excavation was 1m. Detailed trial pit logs are included in Appendix 3.

### 7.3 Field Observations

#### *Site Walkover*

- 7.3.1 A fuel storage tank was located adjacent to the existing Coolpoint Ltd. warehouse on the concrete block paved hardstanding adjacent to the site. The tank was bunded. There was no staining on the outside of the bund. There was no water or other fluid within the bund itself.
- 7.3.2 Well established trees separate the majority of the site (trial pits 4 – 15) from the smaller grassy area (trial pits 1 – 3) adjacent to Bridge Road North and the paved hard standing entrance to Coolpoint Ltd.
- 7.3.3 A circular drainage culvert, placed vertically, was located in the centre of the site. There was evidence that a wooden fence was previously located between this drain and the western boundary.
- 7.3.4 The majority of the northern portion of the site comprises scrub vegetation, however, one large tree is present in the north eastern corner. Services were detected in the vicinity of this with the CAT scanner, as shown on Figure 3.

- 7.3.5 A photographic record of the investigation is presented in Appendix 2. The field observations of the excavations are summarised below.

**Table 7.1: Summary of Trial Pit Excavations**

| Trial Pit Number | Depth Excavated (mBGL) | Comments                                                                                                                     |
|------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------|
| TP1              | 0.5                    | No odour, Made ground (brick rubble) above underlying clay<br>Terminated in stiff natural clay deposits.                     |
| TP2              | 0.5                    | No odour, Made ground (fine red sand and coble stones) above underlying clay<br>Terminated in stiff natural clay deposits.   |
| TP3              | 0.5                    | No odour, Made ground (fragments of limestone) above underlying clay<br>Terminated in stiff natural clay deposits.           |
| TP4              | 0.4                    | Natural ground. Red stiff clay, underlain by grey clay with red sand, above underlying red stiff clay.                       |
| TP5              | 0.4                    | Natural ground. Sandy grey clay above underlying stiff brown clay with grey clay and red clay sand.                          |
| TP6              | 0.4                    | Natural ground. Sandy grey clay above underlying stiff brown clay with grey clay and red clay sand.                          |
| TP7              | 0.4                    | Natural ground. Stiff orange-brown clay above underlying stiff brown clay.                                                   |
| TP8              | 0.5                    | Stiff brown clay with some fragments of made ground (red brick).                                                             |
| TP9              | 0.5                    | Stiff brown clay with some fragments of made ground (red brick).                                                             |
| TP10             | 0.5                    | Stiff brown clay with some fragments of made ground (red brick).                                                             |
| TP11             | 0.5                    | Stiff brown clay with some fragments of made ground (red brick).                                                             |
| TP12             | 0.4                    | Natural ground. Stiff orange-brown clay above underlying stiff brown and grey clay.                                          |
| TP13             | 0.5                    | Stiff brown clay underlain by sandy made ground (brick rubble, black shale rock fragments).<br>Terminated in underlying clay |
| TP14             | 0.5                    | Natural ground. Stiff orange-brown clay above underlying stiff brown clay.                                                   |
| TP15             | 0.5                    | Natural ground. Stiff orange-brown clay above underlying stiff brown clay.                                                   |

#### *Made Ground*

- 7.3.6 Made ground was encountered in the majority of the exploratory pits and typically comprised a thin (10 cm) superficial layer of light brown gravel of crushed brick, concrete and fragments of red clay brick with no odour or visible contamination. A slightly silty orange sand, with no odour, was found in several locations.
- 7.3.7 The made ground in TP13 was the deepest area of these deposits identified in all the trial pits at a thickness of 0.5 m. There was no evidence of any organic matter which would have the potential to generate gas. The maximum depth of the made ground was 0.5 mBGL and underlain by clay deposits.
- 7.3.8 Full ground conditions are detailed in the trial pit logs presented in Appendix 3.

*Natural Superficial Deposits*

- 7.3.9 The superficial deposits comprised predominantly soft to firm clay deposits. This was identified in all locations. The deposits appeared to become stiffer with depth. The clay was described as dry, orange, stiff clay with no odour.

*Bedrock*

- 7.3.10 Excavations were terminated in the superficial deposits due to the presence of the stiff underlying clay layer. The Phase 1 investigation identifies the underlying bedrock as Salop Formation. The British Geological Society description for this formation states:
- 7.3.11 Red and red-brown mudstone, and red-brown (mostly sublitharenite) sandstone containing beds of pebbly sandstone and conglomerate itself containing Carboniferous limestone and chert clasts, and thin 'Spirobis' limestone beds and caliche in the lower part of the unit.
- 7.3.12 The thickness can range between 200m to 360m in Shropshire<sup>1</sup>. All trial pits terminated in the superficial deposits.

*Groundwater*

- 7.3.13 No groundwater was encountered in any of the trial pits during the investigation. Due to impermeable nature of the deposits encountered groundwater is not anticipated near surface.

**7.4 Chemical Analysis Data**

- 7.4.1 The soil samples were collected from the made ground encountered and the natural ground. Chemical analysis was carried out on one of the natural ground samples (TP4) and six of the made ground samples (TP2, TP3, TP8, TP11, TP13 and TP14). These locations were selected for chemical analysis due to their strategic positioning, as detailed in the Sampling Strategy (Section 6.2)
- 7.4.2 The laboratory testing results and test certificates are presented in Appendix 4. A summary of the results is presented below in Table 7.2. and 7.3 below.

**Table 7.2: Soil Explosives Suite Analysis Results**

| Analyte                                  | Units | TP2 A | TP13 A | TP14 A |
|------------------------------------------|-------|-------|--------|--------|
| 2,4,6-Trinitrophenol (Picric Acid)       | mg/kg | <0.1  | <0.1   | <0.1   |
| 2,4,6-Trinitrotoluene (TNT)              | mg/kg | <0.5  | <0.5   | <0.5   |
| 2,4-Dinitrotoluene                       | mg/kg | <1.0  | <1.0   | <1.0   |
| 2,6-Dinitrotoluene                       | mg/kg | <1.0  | <1.0   | <1.0   |
| Cyclo-1,3,5-Trimethylene-2,4,6-Trinitram | mg/kg | <1.0  | <1.0   | <1.0   |
| Cyclotetramethylenetetranitramine (HMX)  | mg/kg | <1.0  | <1.0   | <1.0   |

<sup>1</sup> The BGS Lexicon of Named Rock Units: <https://webapps.bgs.ac.uk/lexicon/lexicon.cfm?pub=SAL>

| Analyte                              | Units | TP2 A | TP13 A     | TP14 A |
|--------------------------------------|-------|-------|------------|--------|
| Ethylene Glycol Dinitrate (EGDN)     | mg/kg | <0.1  | <0.1       | <0.1   |
| Hexanitrostilbene (HNS)              | mg/kg | <0.5  | <0.5       | <0.5   |
| Nitrocellulose (NC)                  | mg/kg | <5000 | <5000      | <5000  |
| Nitrocellulose (NC) Low              | mg/kg | <1000 | <1000      | <1000  |
| Nitroglycerine (NG)                  | mg/kg | <0.1  | <b>0.2</b> | <0.1   |
| Pentaerythritol Tetranitrate (PETN)  | mg/kg | <5.0  | <5.0       | <5.0   |
| Picrite                              | mg/kg | <0.10 | <0.10      | <0.10  |
| Trinitro-2,4,6-Phenylmethylnitramine | mg/kg | <1.0  | <1.0       | <1.0   |

**Table 7.3: Soil Chemical Analysis Results**

| Analyte                                 | Units | TP2 B  | TP3 A  | TP3 B  | TP4 A  | TP4 B  | TP8 A  | TP8 B  | TP11 A | TP11 B | TP13 B | TP14 B | S4UL   |
|-----------------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ammoniacal Nitrogen (Exchangeable) as N | mg/kg | <0.59  | <0.59  | <0.61  | <0.58  | <0.57  | 0.9    | <0.6   | <0.61  | <0.61  | <0.64  | <0.61  | -      |
| Benzene                                 | µg/kg | <12    | <12    | <12    | <12    | <11    | <12    | <12    | <12    | <12    | <13    | <12    | 27     |
| Ethylbenzene                            | µg/kg | <12    | <12    | <12    | <12    | <11    | <12    | <12    | <12    | <12    | <13    | <12    | 5700   |
| m/p-Xylene                              | µg/kg | <24    | <24    | <25    | <23    | <23    | <24    | <24    | <25    | <24    | <26    | <24    | 5900   |
| o-Xylene                                | µg/kg | <12    | <12    | <12    | <12    | <11    | <12    | <12    | <12    | <12    | <13    | <12    | 6600   |
| Toluene                                 | µg/kg | <12    | <12    | <12    | <12    | <11    | <12    | <12    | <12    | <12    | <13    | <12    | 56000  |
| Description of Solid Material           | -     | CLAY   | SILT   | CLAY   | CLAY   | CLAY   | CLAY   | CLAY   | CLAY   | CLAY   | CLAY   | CLAY   | -      |
| Total Moisture at 35°C                  | %     | 15.4   | 15.8   | 18.6   | 14.3   | 11.9   | 17.8   | 15.9   | 18.6   | 17.4   | 21.7   | 17.8   | -      |
| >C6-C7 Aliphatic                        | mg/kg | <0.236 | <0.238 | <0.246 | <0.233 | <0.227 | <0.243 | <0.238 | <0.246 | <0.242 | <0.255 | <0.243 | 7800   |
| >C7-C8 Aliphatic                        | mg/kg | <0.236 | <0.238 | <0.246 | <0.233 | <0.227 | <0.243 | <0.238 | <0.246 | <0.242 | <0.255 | <0.243 |        |
| >C7-C8 Aromatic                         | mg/kg | <0.012 | <0.012 | <0.012 | <0.012 | <0.011 | <0.012 | <0.012 | <0.012 | <0.012 | <0.013 | <0.012 | 56000  |
| >C8-C10 Aliphatic                       | mg/kg | <0.236 | <0.238 | <0.246 | <0.233 | <0.227 | <0.243 | <0.238 | <0.246 | <0.242 | <0.255 | <0.243 | 2000   |
| >C8-C10 Aromatic                        | mg/kg | <0.048 | <0.048 | <0.049 | <0.047 | <0.045 | <0.049 | <0.048 | <0.049 | <0.048 | <0.052 | <0.049 | 3500   |
| C5-C6 Aliphatic                         | mg/kg | <0.236 | <0.238 | <0.246 | <0.233 | <0.227 | <0.243 | <0.238 | <0.246 | <0.242 | <0.255 | <0.243 | 3200   |
| C5-C7 Aromatic                          | mg/kg | <0.012 | <0.012 | <0.012 | <0.012 | <0.011 | <0.012 | <0.012 | <0.012 | <0.012 | <0.013 | <0.012 | 26000  |
| Total GRO                               | mg/kg | <0.236 | <0.238 | <0.246 | <0.233 | <0.227 | <0.243 | <0.238 | <0.246 | <0.242 | <0.255 | <0.243 | -      |
| Acid Soluble Sulphate as SO4            | mg/kg | 411    | 1520   | 239    | 372    | 561    | 437    | 289    | 269    | 307    | 124    | 139    | -      |
| Arsenic as As                           | mg/kg | 10.2   | 10.9   | 8.4    | 7.1    | 8.2    | 8.5    | 11.3   | 11.2   | 9.7    | 15.2   | 10.8   | 640    |
| Cadmium as Cd                           | mg/kg | 0.3    | 0.3    | <0.2   | <0.2   | 0.2    | 0.4    | 0.3    | 0.3    | 0.3    | 0.2    | <0.2   | 190    |
| Copper as Cu                            | mg/kg | 24     | 28.7   | 21.1   | 17.4   | 19.4   | 19.6   | 24.2   | 25     | 23.5   | 17.2   | 22.2   | 68000  |
| Lead as Pb                              | mg/kg | 33.4   | 55.6   | 17.6   | 17.8   | 15.9   | 37.9   | 32.1   | 16     | 14.4   | 31.8   | 19.3   | 2200   |
| Mercury as Hg                           | mg/kg | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | 1100   |
| Nickel as Ni                            | mg/kg | 39.6   | 27.7   | 39.5   | 27.3   | 33     | 28.9   | 37.8   | 42.6   | 38.8   | 47.2   | 48.2   | 980    |
| Selenium as Se                          | mg/kg | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | <0.5   | 12000  |
| Total Chromium as Cr                    | mg/kg | 34     | 22.5   | 34.4   | 23.6   | 27.5   | 22.1   | 29.8   | 43.5   | 38.4   | 49     | 45     | 8600   |
| Vanadium as V                           | mg/kg | 35.5   | 28.4   | 36     | 25.1   | 28.9   | 24.6   | 30.1   | 46.2   | 39.9   | 53.7   | 46.5   | 9000   |
| Zinc as Zn                              | mg/kg | 104.8  | 70.8   | 54.5   | 54.5   | 60.5   | 103.1  | 83     | 68.2   | 65.1   | 82     | 70     | 730000 |
| Chromium (VI) as Cr                     | mg/kg | <0.1   | <0.1   | <0.1   | <0.1   | <0.1   | <0.1   | <0.1   | <0.1   | <0.1   | <0.1   | <0.1   | 33     |
| Acenaphthene                            | mg/kg | <0.09  | <0.10  | <0.10  | <0.09  | <0.09  | 0.31   | <0.10  | <0.10  | <0.10  | <0.10  | <0.10  | 84000  |
| Acenaphthylene                          | mg/kg | <0.09  | <0.10  | <0.10  | <0.09  | <0.09  | 0.1    | <0.10  | <0.10  | <0.10  | <0.10  | <0.10  | 83000  |
| Anthracene                              | mg/kg | <0.09  | <0.10  | <0.10  | <0.09  | <0.09  | 2.11   | <0.10  | <0.10  | <0.10  | <0.10  | <0.10  | 520000 |
| Benzo[a]anthracene                      | mg/kg | <0.09  | <0.10  | <0.10  | <0.09  | <0.09  | 9.46   | <0.10  | <0.10  | <0.10  | <0.10  | <0.10  | 170    |
| Benzo[a]pyrene                          | mg/kg | <0.09  | <0.10  | <0.10  | <0.09  | <0.09  | 9.69   | <0.10  | <0.10  | <0.10  | <0.10  | <0.10  | 35     |
| Benzo[b]fluoranthene                    | mg/kg | <0.09  | <0.10  | <0.10  | <0.09  | <0.09  | 10.7   | <0.10  | <0.10  | <0.10  | <0.10  | <0.10  | 44     |

| Analyte                 | Units    | TP2 B       | TP3 A | TP3 B | TP4 A | TP4 B | TP8 A       | TP8 B | TP11 A | TP11 B | TP13 B | TP14 B | S4UL    |
|-------------------------|----------|-------------|-------|-------|-------|-------|-------------|-------|--------|--------|--------|--------|---------|
| Benzo[g,h,i]perylene    | mg/kg    | <0.09       | <0.10 | <0.10 | <0.09 | <0.09 | <b>4.24</b> | <0.10 | <0.10  | <0.10  | <0.10  | <0.10  | 3900    |
| Benzo[k]fluoranthene    | mg/kg    | <0.09       | <0.10 | <0.10 | <0.09 | <0.09 | <b>3.95</b> | <0.10 | <0.10  | <0.10  | <0.10  | <0.10  | 1200    |
| Chrysene                | mg/kg    | <0.09       | <0.10 | <0.10 | <0.09 | <0.09 | <b>8.41</b> | <0.10 | <0.10  | <0.10  | <0.10  | <0.10  | 350     |
| Dibenzo[a,h]anthracene  | mg/kg    | <0.09       | <0.10 | <0.10 | <0.09 | <0.09 | <b>1.12</b> | <0.10 | <0.10  | <0.10  | <0.10  | <0.10  | 3.5     |
| Fluoranthene            | mg/kg    | <0.09       | <0.10 | <0.10 | <0.09 | <0.09 | <b>15</b>   | <0.10 | <0.10  | <0.10  | <0.10  | <0.10  | 23000   |
| Fluorene                | mg/kg    | <0.09       | <0.10 | <0.10 | <0.09 | <0.09 | <b>0.19</b> | <0.10 | <0.10  | <0.10  | <0.10  | <0.10  | 63000   |
| Indeno[1,2,3-cd]pyrene  | mg/kg    | <0.09       | <0.10 | <0.10 | <0.09 | <0.09 | <b>5.65</b> | <0.10 | <0.10  | <0.10  | <0.10  | <0.10  | 500     |
| Naphthalene             | mg/kg    | <0.09       | <0.10 | <0.10 | <0.09 | <0.09 | <b>0.33</b> | <0.10 | <0.10  | <0.10  | <0.10  | <0.10  | 190     |
| Phenanthrene            | mg/kg    | <0.09       | <0.10 | <0.10 | <0.09 | <0.09 | <b>4.58</b> | <0.10 | <0.10  | <0.10  | <0.10  | <0.10  | 22000   |
| Pyrene                  | mg/kg    | <0.09       | <0.10 | <0.10 | <0.09 | <0.09 | <b>13.5</b> | <0.10 | <0.10  | <0.10  | <0.10  | <0.10  | 54000   |
| Total PAH 16            | mg/kg    | <1.51       | <1.52 | <1.57 | <1.49 | <1.45 | <b>89.3</b> | <1.52 | <1.57  | <1.55  | <1.63  | <1.56  | -       |
| pH (2.5:1 extraction)   | pH units | 8.7         | 8.1   | 8     | 9.1   | 8.8   | 8.6         | 8.7   | 9      | 8.9    | 8.7    | 8.4    | -       |
| Asbestos Identification | -        | NAIIS       | NAIIS | NAIIS | NAIIS | NAIIS | NAIIS       | NAIIS | NAIIS  | NAIIS  | NAIIS  | NAIIS  | -       |
| >C10-C12 (Aliphatic)    | mg/kg    | <4.73       | <4.75 | <4.91 | <4.67 | <4.54 | <4.87       | <4.76 | <4.91  | <4.84  | <5.11  | <4.87  | 9700    |
| >C12-C16 (Aliphatic)    | mg/kg    | <4.73       | <4.75 | <4.91 | <4.67 | <4.54 | <4.87       | <4.76 | <4.91  | <4.84  | <5.11  | <4.87  | 59000   |
| >C16-C21 (Aliphatic)    | mg/kg    | <4.73       | <4.75 | <4.91 | <4.67 | <4.54 | <b>20.7</b> | <4.76 | <4.91  | <4.84  | <5.11  | <4.87  | 1600000 |
| >C21-C35 (Aliphatic)    | mg/kg    | <11.8       | <11.9 | <12.3 | <11.7 | <11.4 | <b>58.2</b> | <11.9 | <12.3  | <12.1  | <12.8  | <12.2  |         |
| Total TPH (Aliphatic)   | mg/kg    | <23.6       | <23.8 | <24.6 | <23.3 | <22.7 | <b>92.4</b> | <23.8 | <24.6  | <24.2  | <25.5  | <24.3  | -       |
| >C10-C12 (Aromatic)     | mg/kg    | <4.73       | <4.75 | <4.91 | <4.67 | <4.54 | <4.87       | <4.76 | <4.91  | <4.84  | <5.11  | <4.87  | 16000   |
| >C12-C16 (Aromatic)     | mg/kg    | <4.73       | <4.75 | <4.91 | <4.67 | <4.54 | <4.87       | <4.76 | <4.91  | <4.84  | <5.11  | <4.87  | 36000   |
| >C16-C21 (Aromatic)     | mg/kg    | <b>5.49</b> | <4.75 | <4.91 | <4.67 | <4.54 | <b>105</b>  | <4.76 | <4.91  | <4.84  | <5.11  | <4.87  | 280000  |
| >C21-C35 (Aromatic)     | mg/kg    | <11.8       | <11.9 | <12.3 | <11.7 | <11.4 | <b>495</b>  | 15.5  | <12.3  | 13.7   | <12.8  | <12.2  | 28000   |
| Total TPH (Aromatic)    | mg/kg    | <23.6       | <23.8 | <24.6 | <23.3 | <22.7 | <b>682</b>  | 25.3  | <24.6  | <24.2  | <25.5  | <24.3  | -       |
| Soil Organic Matter     | % m/m    | 0.65        | 2.62  | 0.78  | 0.47  | 0.51  | <b>1.35</b> | 0.75  | 0.53   | 0.48   | 0.56   | 0.52   | -       |

- 7.4.3 As part of the detailed explosive suite, a trace concentration (0.2 mg/Kg) of nitroglycerine (NG) was detected at TP13A only. This is significantly below the indicated guidance level of 10,000 mg/Kg<sup>2,3,4,5</sup>. No other parameters were detected.
- 7.4.4 All metals detected are below the LQM/CIEH Suitable for Use Levels (S4ULs) for commercial land use. It is noted sulphate concentration is elevated within TP3A (shallow sample) in comparison to other locations.
- 7.4.5 The screening criteria for organic contaminants above are based on an organic matter percentage (SOM 1 %), representing the most stringent scenario for comparison.
- 7.4.6 Low, trace concentrations of petroleum hydrocarbons were detected in TP8A alone. Aliphatic Petroleum Hydrocarbons were detected at in the range of >C16-C21 at 20.7 mg/kg and >C21-C35 at 58.2 mg/kg and Aromatic Petroleum Hydrocarbons in the range >C16-C21 at 105 mg/kg and >C21-C35 at 495 mg/kg. These concentrations are significantly below the threshold values presented above. The TPHs detected were also below their respective LQM threshold limits.
- 7.4.7 There is no risk to groundwater due to the low mobility of the parameters detected (long carbon chains) and the presence of the natural clay in the superficial deposits.
- 7.4.8 All sixteen of the polycyclic aromatic hydrocarbons were also detected at TP8A alone. These concentrations were also significantly below the threshold limits.
- 7.4.9 None of the detected parameters noted above at TP8A were found in the deeper sample TP8B, which was taken from the underlying clay.
- 7.4.10 Asbestos was not identified in any of the screening of the soil samples.

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<sup>2</sup> Guidance based on values given by Royal Ordnance & H.M Explosives Inspectorate

<sup>3</sup> Management Guidance for the Safe Decommissioning of Explosives Sites, CBI, Explosives Industry Group , July 2003

<sup>4</sup> Chemical Works- explosives, propellants and pyrotechnics manufacturing works. Department of the Environment, 1995

<sup>5</sup> Development of Land Affected by Contamination: A guide for Developers. Welsh Land Contamination Working Group & NRW 2017.

## 8.0 REVISED CONCEPTUAL MODEL AND QUALITATIVE RISK ASSESSMENT

### 8.1 Conceptual Model

- 8.1.1 The conceptual site model (CSM) presented below is based on the site data and the development proposal.

#### *Source*

- 8.1.2 There is no significant (>1m) thickness of made ground present at the site which could potential generation a source of ground gas and therefore the risks to the development from ground gas area considered to be negligible.

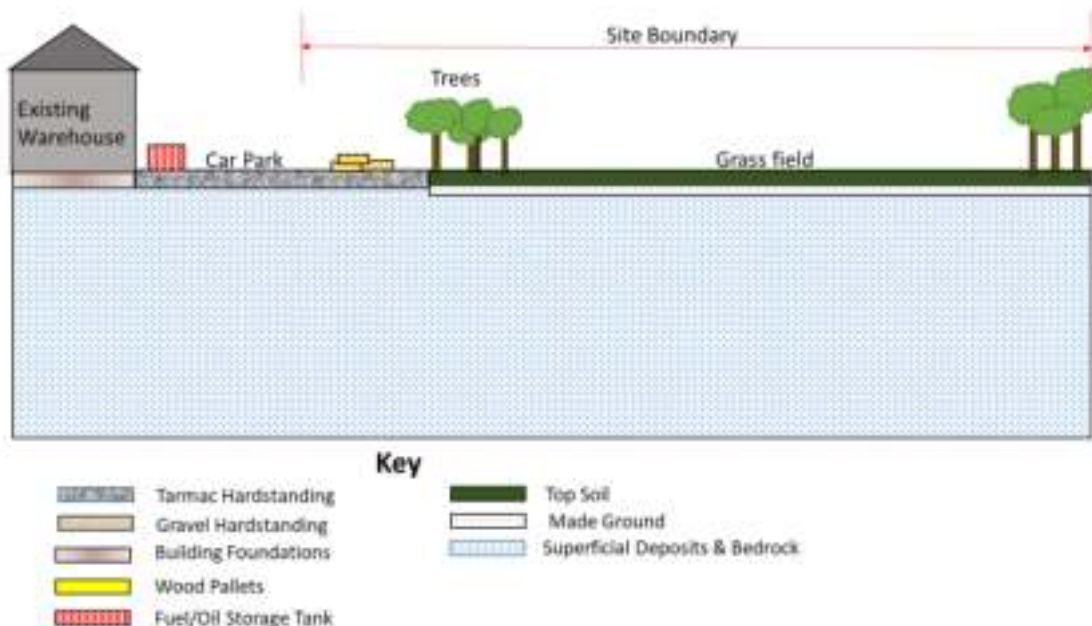
#### *Pathways*

- 8.1.3 The presence of a stiff natural clay beneath the shallow made ground (typically /<0.3m) would indicate that there is no potential for the vertical migration of contamination at the site. Pathways are limited to the inhalation and ingestion of potentially contaminated dust. The proposed development includes the construction of a building and hardstanding which would minimise the potential generation of dust from the soil layers.

#### *Receptors*

- 8.1.4 Receptors considered are future site operatives, construction workers and controlled waters comprising groundwater and steams within the area.

**Figure 1: Conceptual Site Model**



## **8.2 Risks to Human Health**

- 8.2.1 Based on the assessment of these concentrations against generic screening values for commercial land use, the measured concentrations are all below this value and would indicate that the risks posed to human health are acceptable.
- 8.2.2 Future risks posed to site users are mitigated by the construction of the building and areas of hardstanding which conceptually would form a barrier between the site users and the underlying soils.
- 8.2.3 The thickness of the made ground is minimal, however, trace amounts of nitro-glycerine (0.2 mg/Kg) have been detected. The indicated potential explosive and human health risks for a medium sensitivity (e.g. industrial / commercial) land use threshold of 1% (or 10,000 mg/Kg) is adopted for potentially explosive substances<sup>6,7,8,9</sup>.
- 8.2.4 The concentrations detected at TP13a are, therefore not considered to represent a risk to human health.

## **8.3 Risks to Controlled Waters**

- 8.3.1 The presence of clay deposits immediately below the thin made ground is considered to represent a barrier to vertical migration of any contamination present at the site. Therefore, there is no pathway present at the site and in adopting the risk assessment methodology, this would indicate negligible risk to underlying groundwater.
- 8.3.2 The potential risk to surface water from the detected PAHs and TPH detected at TP8 is considered to be very low. This assessment is based on the chemical profile of the TPH present and that it predominantly comprises long carbon chain length compounds which, by their nature, tend to have very low solubility potential. Combined with the limited spatial extent and vertical thickness, these compounds are not considered to be mobile or represent a risk to the water environment.
- 8.3.3 The risks posed by this material are further reduced in areas where the surface will be covered by the construction of a building as infiltration will be negligible and therefore the potential for mobilisation via surface water will be negligible.

## **8.4 Risks to Construction Workers**

- 8.4.1 The risk posed by the concentrations detected to ground workers during the development of the site is considered to be low. Good hygiene rules and minimisation of dust during construction works would further minimise this risk.

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<sup>6</sup> Guidance based on values given by Royal Ordnance & H.M Explosives Inspectorate

<sup>7</sup> Management Guidance for the Safe Decommissioning of Explosives Sites, CBI, Explosives Industry Group, July 2003

<sup>8</sup> Chemical Works- explosives, propellants and pyrotechnics manufacturing works. Department of the Environment, 1995

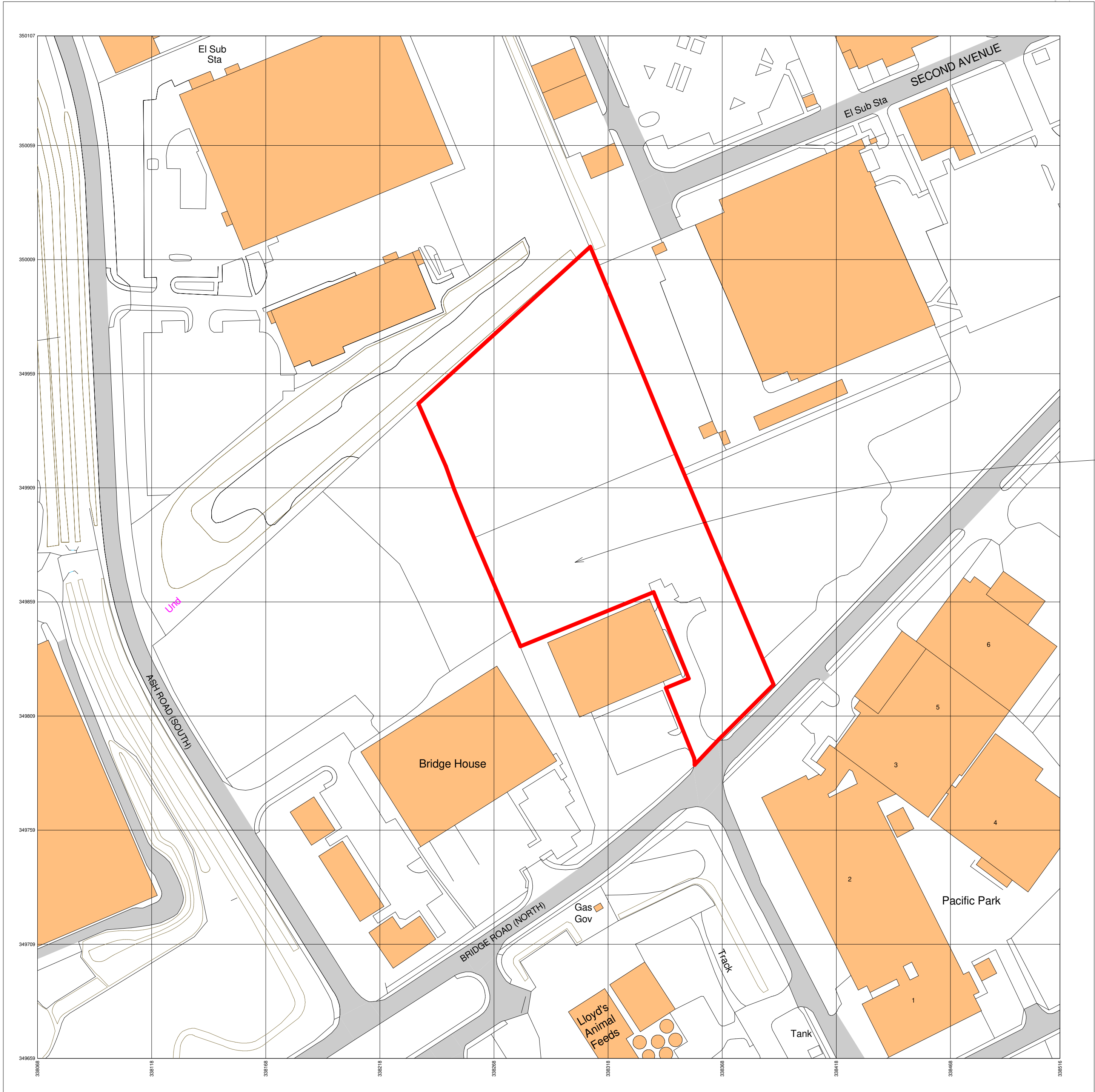
<sup>9</sup> Development of Land Affected by Contamination: A guide for Developers. Welsh Land Contamination Working Group & NRW 2017.

- 8.4.2 The trace amounts of residual explosive materials identified indicate that any superficial (within the top 0.5m) excavation should take into the account the potential of residual explosive materials within the made ground. The available guidance indicates that there is no risk to human health from the trace concentrations detected as part of the ground investigations.

## 9.0 CONCLUSIONS AND RECOMMENDATIONS

- 9.1.1 This report summarises the finding of the Phase I and Phase II investigation at Bridge Road North, Wrexham, with respect to the risks posed to the proposed development.
- 9.1.2 The Phase 1 identified that the site was part of the large Cordite works and bunds surrounding potential munitions stores were present within the Site footprint. There was, therefore, potential for contamination to be present associated with historic land use and any made ground associated with its redevelopment.
- 9.1.3 The Phase II site investigation adopted a combined targeted and non targeted approach. It confirmed the absence of any significant deposits of made ground and did not identify any traditional contamination which would present a risk to future site users or controlled waters.
- 9.1.4 The ground investigation encountered an isolated occurrence of TPH and PAH contaminations in the shallow sample from TP8. The presence of this material was limited in both vertical and spatial extent and was not detected in the deep sample within the same trial pit. The proposed development is considered to mitigate against the risks by forming a barrier between the underlying soil and future site users. This material is not considered to pose a significant risk to construction workers via inhalation and ingestion of contaminated dust due to the concentrations present.
- 9.1.5 Nitroglycerine was detected in a low concentration of 0.2 mg/kg at TP13A as part of the explosives suite which is marginally above the detection limit of 0.1 mg/kg. The thickness of the made ground was limited (0.4m) and the risk from residual explosive materials is considered low.

## DRAWINGS



SITE AREA = 1.52Ha



1 Site Location Plan  
1 : 1250

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THE ABOVE TO BE DESIGNED BY SPECIALISTS IN ACCORDANCE WITH BRITISH STANDARDS BELOW:

- BS 9999 (2017)** - Fire safety in the design, management and use of buildings – Code of practice  
**BS 6564 (2017)** - Sanitary installations. Code of practice for the design of sanitary facilities  
**BS 5266 (2016)** - Emergency Lighting - Code of practice for the emergency lighting of premises  
**BS 5499 (2014)** - Guidance for the selection and use of safety signs and fire safety notices

|                                                                                       |                  |                  |
|---------------------------------------------------------------------------------------|------------------|------------------|
|  |                  |                  |
| PURPOSE OF ISSUE<br>Project Status                                                    |                  |                  |
| PACE   ARCHITECTURE<br>www.pace-architecture.co.uk                                    |                  |                  |
| PROJECT<br>BRIDGE ROAD NORTH                                                          |                  |                  |
| ADDRESS<br>Bridge Road North, Wrexham, LL13 9PS                                       |                  |                  |
| TITLE<br>SITE LOCATION PLAN                                                           |                  |                  |
| CLIENT<br>JCP Investments                                                             |                  |                  |
| DRAWN BY<br>nc                                                                        | CHECKED BY<br>HJ | DATE<br>17.06.22 |
| SCALE (@ A1)<br>1 : 1250                                                              |                  | PROJECT NUMBER   |
| DRAWING NUMBER<br>2002.P.001                                                          |                  | REV              |

DRAFT  
AS DATED

1

PROPOSED SITE PLAN

1 : 500

ECOLOGICAL MITIGATION

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Gross Site Area                     | 15,105m2                           |
| Area of Mitigation<br>(shown green) | 4,696m2 (31% of application area)  |
| Developed Area                      | 10,410m2 (69% of application area) |
| Building Footprint                  | 5,210m2                            |
| Hardstanding                        | 5,200m2                            |

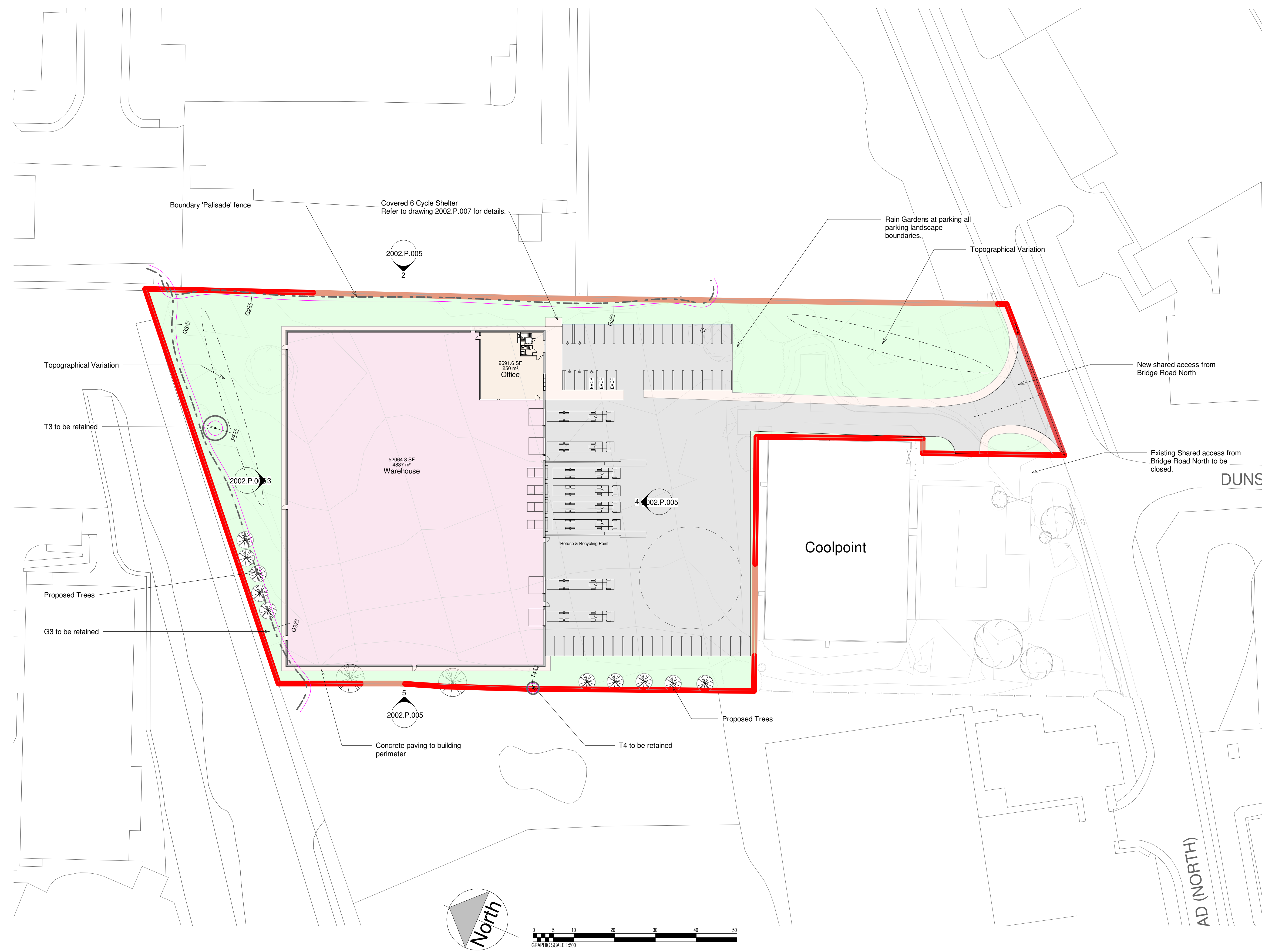
PARKING PROVISION

|                     |                                   |
|---------------------|-----------------------------------|
| UNIT 1              |                                   |
| Gross Internal Area | 5,087m2                           |
| Parking Provisions  |                                   |
| Car Parking Bays    | 51 Total spaces (average 1/100m2) |
| Disabled Bays       | 5 spaces (10% of Provision)       |
| Cycles              | 6 sheltered spaces                |

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CONSTRUCTION N.W. LTD

PURPOSE OF ISSUE  
Project Status

PACE | ARCHITECTURE

www.pace-architecture.co.uk

PROJECT  
NEW INDUSTRIAL UNIT

ADDRESS  
Bridge Road North, Wrexham, LL13 9PS

TITLE  
PROPOSED SITE PLAN

CLIENT  
JCP Investments Ltd

DRAWN BY  
nc

CHECKED BY  
HJ

DATE  
27.04.23

SCALE (@ A1)  
1 : 500

PROJECT NUMBER  
2002

DRAWING NUMBER  
2002.P.003(A)

REV

## APPENDIX 1

### Groundsure Report

COOLPOINT LTD, COOLPOINT LTD, BRIDGE ROAD NORTH, WREXHAM INDUSTRIAL ESTATE, WREXHAM, LL13 9PS

## Order Details

**Date:** 28/03/2022  
**Your ref:** pO16968  
**Our Ref:** HMD-8628687  
**Client:** Sean O'Brien

## Site Details

**Location:** 338333 349899  
**Area:** 1.56 ha  
**Authority:** [Wreccsam - Wrexham County Borough Council](#)



**Summary of findings**

p. 2 **Aerial image**

p. 8

**OS MasterMap site plan**

p.13 [groundsure.com/insightuserguide](https://groundsure.com/insightuserguide)

## Summary of findings

| Page      | Section    | Past land use                                      | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|-----------|------------|----------------------------------------------------|---------|-------|---------|----------|-----------|
| <b>14</b> | <b>1.1</b> | <b><u>Historical industrial land uses</u></b>      | 7       | 8     | 12      | 38       | -         |
| <b>17</b> | <b>1.2</b> | <b><u>Historical tanks</u></b>                     | 0       | 1     | 14      | 23       | -         |
| <b>19</b> | <b>1.3</b> | <b><u>Historical energy features</u></b>           | 0       | 0     | 10      | 28       | -         |
| 20        | 1.4        | Historical petrol stations                         | 0       | 0     | 0       | 0        | -         |
| 21        | 1.5        | Historical garages                                 | 0       | 0     | 0       | 0        | -         |
| <b>21</b> | <b>1.6</b> | <b><u>Historical military land</u></b>             | 1       | 0     | 0       | 0        | -         |
| Page      | Section    | Past land use - un-grouped                         | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>22</b> | <b>2.1</b> | <b><u>Historical industrial land uses</u></b>      | 7       | 10    | 18      | 51       | -         |
| <b>26</b> | <b>2.2</b> | <b><u>Historical tanks</u></b>                     | 0       | 3     | 39      | 57       | -         |
| <b>29</b> | <b>2.3</b> | <b><u>Historical energy features</u></b>           | 0       | 0     | 24      | 63       | -         |
| 33        | 2.4        | Historical petrol stations                         | 0       | 0     | 0       | 0        | -         |
| 33        | 2.5        | Historical garages                                 | 0       | 0     | 0       | 0        | -         |
| Page      | Section    | Waste and landfill                                 | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>34</b> | <b>3.1</b> | <b><u>Active or recent landfill</u></b>            | 0       | 0     | 2       | 0        | -         |
| 35        | 3.2        | Historical landfill (BGS records)                  | 0       | 0     | 0       | 0        | -         |
| 35        | 3.3        | Historical landfill (LA/mapping records)           | 0       | 0     | 0       | 0        | -         |
| <b>35</b> | <b>3.4</b> | <b><u>Historical landfill (EA/NRW records)</u></b> | 0       | 0     | 3       | 1        | -         |
| <b>36</b> | <b>3.5</b> | <b><u>Historical waste sites</u></b>               | 0       | 0     | 1       | 5        | -         |
| <b>38</b> | <b>3.6</b> | <b><u>Licensed waste sites</u></b>                 | 0       | 0     | 53      | 34       | -         |
| <b>61</b> | <b>3.7</b> | <b><u>Waste exemptions</u></b>                     | 0       | 0     | 2       | 12       | -         |
| Page      | Section    | Current industrial land use                        | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>64</b> | <b>4.1</b> | <b><u>Recent industrial land uses</u></b>          | 0       | 1     | 25      | -        | -         |
| 66        | 4.2        | Current or recent petrol stations                  | 0       | 0     | 0       | 0        | -         |
| 66        | 4.3        | Electricity cables                                 | 0       | 0     | 0       | 0        | -         |
| 67        | 4.4        | Gas pipelines                                      | 0       | 0     | 0       | 0        | -         |
| 67        | 4.5        | Sites determined as Contaminated Land              | 0       | 0     | 0       | 0        | -         |



| 67         | 4.6         | Control of Major Accident Hazards (COMAH)                     | 0                        | 0     | 0       | 0        | -         |
|------------|-------------|---------------------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| 67         | 4.7         | Regulated explosive sites                                     | 0                        | 0     | 0       | 0        | -         |
| 67         | 4.8         | Hazardous substance storage/usage                             | 0                        | 0     | 0       | 0        | -         |
| <b>68</b>  | <b>4.9</b>  | <b><u>Historical licensed industrial activities (IPC)</u></b> | 0                        | 0     | 2       | 0        | -         |
| <b>68</b>  | <b>4.10</b> | <b><u>Licensed industrial activities (Part A(1))</u></b>      | 0                        | 0     | 43      | 2        | -         |
| <b>76</b>  | <b>4.11</b> | <b><u>Licensed pollutant release (Part A(2)/B)</u></b>        | 0                        | 0     | 3       | 4        | -         |
| <b>77</b>  | <b>4.12</b> | <b><u>Radioactive Substance Authorisations</u></b>            | 0                        | 0     | 4       | 0        | -         |
| <b>78</b>  | <b>4.13</b> | <b><u>Licensed Discharges to controlled waters</u></b>        | 0                        | 1     | 12      | 5        | -         |
| 81         | 4.14        | Pollutant release to surface waters (Red List)                | 0                        | 0     | 0       | 0        | -         |
| 81         | 4.15        | Pollutant release to public sewer                             | 0                        | 0     | 0       | 0        | -         |
| 81         | 4.16        | List 1 Dangerous Substances                                   | 0                        | 0     | 0       | 0        | -         |
| <b>81</b>  | <b>4.17</b> | <b><u>List 2 Dangerous Substances</u></b>                     | 0                        | 0     | 1       | 1        | -         |
| <b>82</b>  | <b>4.18</b> | <b><u>Pollution Incidents (EA/NRW)</u></b>                    | 0                        | 0     | 13      | 39       | -         |
| 87         | 4.19        | Pollution inventory substances                                | 0                        | 0     | 0       | 0        | -         |
| 87         | 4.20        | Pollution inventory waste transfers                           | 0                        | 0     | 0       | 0        | -         |
| 88         | 4.21        | Pollution inventory radioactive waste                         | 0                        | 0     | 0       | 0        | -         |
| Page       | Section     | Hydrogeology                                                  | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>89</b>  | <b>5.1</b>  | <b><u>Superficial aquifer</u></b>                             | Identified (within 500m) |       |         |          |           |
| <b>91</b>  | <b>5.2</b>  | <b><u>Bedrock aquifer</u></b>                                 | Identified (within 500m) |       |         |          |           |
| <b>93</b>  | <b>5.3</b>  | <b><u>Groundwater vulnerability</u></b>                       | Identified (within 50m)  |       |         |          |           |
| 94         | 5.4         | Groundwater vulnerability- soluble rock risk                  | None (within 0m)         |       |         |          |           |
| 94         | 5.5         | Groundwater vulnerability- local information                  | None (within 0m)         |       |         |          |           |
| <b>95</b>  | <b>5.6</b>  | <b><u>Groundwater abstractions</u></b>                        | 0                        | 0     | 0       | 0        | 11        |
| <b>98</b>  | <b>5.7</b>  | <b><u>Surface water abstractions</u></b>                      | 0                        | 0     | 0       | 0        | 1         |
| 98         | 5.8         | Potable abstractions                                          | 0                        | 0     | 0       | 0        | 0         |
| <b>99</b>  | <b>5.9</b>  | <b><u>Source Protection Zones</u></b>                         | 0                        | 0     | 0       | 2        | -         |
| 99         | 5.10        | Source Protection Zones (confined aquifer)                    | 0                        | 0     | 0       | 0        | -         |
| Page       | Section     | Hydrology                                                     | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>100</b> | <b>6.1</b>  | <b><u>Water Network (OS MasterMap)</u></b>                    | 0                        | 0     | 13      | -        | -         |



| <b>102</b> | <b>6.2</b>  | <b><u>Surface water features</u></b>            | 0                                      | 0     | 6       | -        | -         |
|------------|-------------|-------------------------------------------------|----------------------------------------|-------|---------|----------|-----------|
| <b>102</b> | <b>6.3</b>  | <b><u>WFD Surface water body catchments</u></b> | 2                                      | -     | -       | -        | -         |
| <b>102</b> | <b>6.4</b>  | <b><u>WFD Surface water bodies</u></b>          | 0                                      | 0     | 0       | -        | -         |
| <b>103</b> | <b>6.5</b>  | <b><u>WFD Groundwater bodies</u></b>            | 1                                      | -     | -       | -        | -         |
| Page       | Section     | River and coastal flooding                      | On site                                | 0-50m | 50-250m | 250-500m | 500-2000m |
| 104        | 7.1         | Risk of flooding from rivers and the sea        | None (within 50m)                      |       |         |          |           |
| 104        | 7.2         | Historical Flood Events                         | 0                                      | 0     | 0       | -        | -         |
| 104        | 7.3         | Flood Defences                                  | 0                                      | 0     | 0       | -        | -         |
| 105        | 7.4         | Areas Benefiting from Flood Defences            | 0                                      | 0     | 0       | -        | -         |
| 105        | 7.5         | Flood Storage Areas                             | 0                                      | 0     | 0       | -        | -         |
| 106        | 7.6         | Flood Zone 2                                    | None (within 50m)                      |       |         |          |           |
| 106        | 7.7         | Flood Zone 3                                    | None (within 50m)                      |       |         |          |           |
| Page       | Section     | Surface water flooding                          |                                        |       |         |          |           |
| <b>107</b> | <b>8.1</b>  | <b><u>Surface water flooding</u></b>            | 1 in 30 year, 0.3m - 1.0m (within 50m) |       |         |          |           |
| Page       | Section     | Groundwater flooding                            |                                        |       |         |          |           |
| <b>109</b> | <b>9.1</b>  | <b><u>Groundwater flooding</u></b>              | Low (within 50m)                       |       |         |          |           |
| Page       | Section     | Environmental designations                      | On site                                | 0-50m | 50-250m | 250-500m | 500-2000m |
| 110        | 10.1        | Sites of Special Scientific Interest (SSSI)     | 0                                      | 0     | 0       | 0        | 0         |
| 111        | 10.2        | Conserved wetland sites (Ramsar sites)          | 0                                      | 0     | 0       | 0        | 0         |
| 111        | 10.3        | Special Areas of Conservation (SAC)             | 0                                      | 0     | 0       | 0        | 0         |
| 111        | 10.4        | Special Protection Areas (SPA)                  | 0                                      | 0     | 0       | 0        | 0         |
| 111        | 10.5        | National Nature Reserves (NNR)                  | 0                                      | 0     | 0       | 0        | 0         |
| 112        | 10.6        | Local Nature Reserves (LNR)                     | 0                                      | 0     | 0       | 0        | 0         |
| <b>112</b> | <b>10.7</b> | <b><u>Designated Ancient Woodland</u></b>       | 0                                      | 0     | 0       | 2        | 9         |
| 113        | 10.8        | Biosphere Reserves                              | 0                                      | 0     | 0       | 0        | 0         |
| 113        | 10.9        | Forest Parks                                    | 0                                      | 0     | 0       | 0        | 0         |
| 113        | 10.10       | Marine Conservation Zones                       | 0                                      | 0     | 0       | 0        | 0         |
| 113        | 10.11       | Green Belt                                      | 0                                      | 0     | 0       | 0        | 0         |
| 113        | 10.12       | Proposed Ramsar sites                           | 0                                      | 0     | 0       | 0        | 0         |



| 114        | 10.13        | Possible Special Areas of Conservation (pSAC)  | 0                        | 0     | 0       | 0        | 0         |
|------------|--------------|------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| 114        | 10.14        | Potential Special Protection Areas (pSPA)      | 0                        | 0     | 0       | 0        | 0         |
| 114        | 10.15        | Nitrate Sensitive Areas                        | 0                        | 0     | 0       | 0        | 0         |
| 114        | 10.16        | Nitrate Vulnerable Zones                       | 0                        | 0     | 0       | 0        | 0         |
| <b>115</b> | <b>10.17</b> | <b><u>SSSI Impact Risk Zones</u></b>           | <b>1</b>                 | -     | -       | -        | -         |
| 116        | 10.18        | SSSI Units                                     | 0                        | 0     | 0       | 0        | 0         |
| Page       | Section      | Visual and cultural designations               | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 117        | 11.1         | World Heritage Sites                           | 0                        | 0     | 0       | -        | -         |
| 117        | 11.2         | Area of Outstanding Natural Beauty             | 0                        | 0     | 0       | -        | -         |
| 117        | 11.3         | National Parks                                 | 0                        | 0     | 0       | -        | -         |
| 117        | 11.4         | Listed Buildings                               | 0                        | 0     | 0       | -        | -         |
| 118        | 11.5         | Conservation Areas                             | 0                        | 0     | 0       | -        | -         |
| 118        | 11.6         | Scheduled Ancient Monuments                    | 0                        | 0     | 0       | -        | -         |
| 118        | 11.7         | Registered Parks and Gardens                   | 0                        | 0     | 0       | -        | -         |
| Page       | Section      | Agricultural designations                      | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 119        | 12.1         | Agricultural Land Classification               | None (within 250m)       |       |         |          |           |
| 119        | 12.2         | Open Access Land                               | 0                        | 0     | 0       | -        | -         |
| 119        | 12.3         | Tree Felling Licences                          | 0                        | 0     | 0       | -        | -         |
| 119        | 12.4         | Environmental Stewardship Schemes              | 0                        | 0     | 0       | -        | -         |
| 120        | 12.5         | Countryside Stewardship Schemes                | 0                        | 0     | 0       | -        | -         |
| Page       | Section      | Habitat designations                           | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 121        | 13.1         | Priority Habitat Inventory                     | 0                        | 0     | 0       | -        | -         |
| 121        | 13.2         | Habitat Networks                               | 0                        | 0     | 0       | -        | -         |
| 121        | 13.3         | Open Mosaic Habitat                            | 0                        | 0     | 0       | -        | -         |
| 121        | 13.4         | Limestone Pavement Orders                      | 0                        | 0     | 0       | -        | -         |
| Page       | Section      | Geology 1:10,000 scale                         | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>122</b> | <b>14.1</b>  | <b><u>10k Availability</u></b>                 | Identified (within 500m) |       |         |          |           |
| <b>123</b> | <b>14.2</b>  | <b><u>Artificial and made ground (10k)</u></b> | 3                        | 1     | 0       | 0        | -         |
| <b>125</b> | <b>14.3</b>  | <b><u>Superficial geology (10k)</u></b>        | 2                        | 0     | 1       | 0        | -         |

| 126        | 14.4        | Landslip (10k)                                     | 0                        | 0     | 0       | 0        | -         |
|------------|-------------|----------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| <b>127</b> | <b>14.5</b> | <b><u>Bedrock geology (10k)</u></b>                | 2                        | 0     | 0       | 1        | -         |
| 128        | 14.6        | Bedrock faults and other linear features (10k)     | 0                        | 0     | 0       | 0        | -         |
| Page       | Section     | Geology 1:50,000 scale                             | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>129</b> | <b>15.1</b> | <b><u>50k Availability</u></b>                     | Identified (within 500m) |       |         |          |           |
| <b>130</b> | <b>15.2</b> | <b><u>Artificial and made ground (50k)</u></b>     | 2                        | 0     | 0       | 0        | -         |
| <b>131</b> | <b>15.3</b> | <b><u>Artificial ground permeability (50k)</u></b> | 3                        | 1     | -       | -        | -         |
| <b>132</b> | <b>15.4</b> | <b><u>Superficial geology (50k)</u></b>            | 1                        | 0     | 2       | 0        | -         |
| <b>133</b> | <b>15.5</b> | <b><u>Superficial permeability (50k)</u></b>       | Identified (within 50m)  |       |         |          |           |
| 133        | 15.6        | Landslip (50k)                                     | 0                        | 0     | 0       | 0        | -         |
| 133        | 15.7        | Landslip permeability (50k)                        | None (within 50m)        |       |         |          |           |
| <b>134</b> | <b>15.8</b> | <b><u>Bedrock geology (50k)</u></b>                | 1                        | 0     | 1       | 1        | -         |
| <b>135</b> | <b>15.9</b> | <b><u>Bedrock permeability (50k)</u></b>           | Identified (within 50m)  |       |         |          |           |
| 135        | 15.10       | Bedrock faults and other linear features (50k)     | 0                        | 0     | 0       | 0        | -         |
| Page       | Section     | Boreholes                                          | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>136</b> | <b>16.1</b> | <b><u>BGS Boreholes</u></b>                        | 0                        | 0     | 27      | -        | -         |
| Page       | Section     | Natural ground subsidence                          |                          |       |         |          |           |
| <b>138</b> | <b>17.1</b> | <b><u>Shrink swell clays</u></b>                   | Very low (within 50m)    |       |         |          |           |
| <b>139</b> | <b>17.2</b> | <b><u>Running sands</u></b>                        | Very low (within 50m)    |       |         |          |           |
| <b>141</b> | <b>17.3</b> | <b><u>Compressible deposits</u></b>                | Very low (within 50m)    |       |         |          |           |
| <b>143</b> | <b>17.4</b> | <b><u>Collapsible deposits</u></b>                 | Very low (within 50m)    |       |         |          |           |
| <b>144</b> | <b>17.5</b> | <b><u>Landslides</u></b>                           | Very low (within 50m)    |       |         |          |           |
| <b>145</b> | <b>17.6</b> | <b><u>Ground dissolution of soluble rocks</u></b>  | Negligible (within 50m)  |       |         |          |           |
| Page       | Section     | Mining, ground workings and natural cavities       | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 147        | 18.1        | Natural cavities                                   | 0                        | 0     | 0       | 0        | -         |
| 148        | 18.2        | BritPits                                           | 0                        | 0     | 0       | 0        | -         |
| <b>148</b> | <b>18.3</b> | <b><u>Surface ground workings</u></b>              | 0                        | 5     | 24      | -        | -         |
| 149        | 18.4        | Underground workings                               | 0                        | 0     | 0       | 0        | 0         |
| 149        | 18.5        | Historical Mineral Planning Areas                  | 0                        | 0     | 0       | 0        | -         |

| 150        | 18.6        | Non-coal mining                                       | 0                               | 0     | 0       | 0        | 0         |
|------------|-------------|-------------------------------------------------------|---------------------------------|-------|---------|----------|-----------|
| 150        | 18.7        | Mining cavities                                       | 0                               | 0     | 0       | 0        | 0         |
| 150        | 18.8        | JPB mining areas                                      | None (within 0m)                |       |         |          |           |
| <b>150</b> | <b>18.9</b> | <b><u>Coal mining</u></b>                             | <b>Identified (within 0m)</b>   |       |         |          |           |
| 151        | 18.10       | Brine areas                                           | None (within 0m)                |       |         |          |           |
| 151        | 18.11       | Gypsum areas                                          | None (within 0m)                |       |         |          |           |
| 151        | 18.12       | Tin mining                                            | None (within 0m)                |       |         |          |           |
| 151        | 18.13       | Clay mining                                           | None (within 0m)                |       |         |          |           |
| Page       | Section     | Radon                                                 |                                 |       |         |          |           |
| <b>152</b> | <b>19.1</b> | <b><u>Radon</u></b>                                   | <b>Less than 1% (within 0m)</b> |       |         |          |           |
| Page       | Section     | Soil chemistry                                        | On site                         | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>153</b> | <b>20.1</b> | <b><u>BGS Estimated Background Soil Chemistry</u></b> | 2                               | 0     | -       | -        | -         |
| 153        | 20.2        | BGS Estimated Urban Soil Chemistry                    | 0                               | 0     | -       | -        | -         |
| 153        | 20.3        | BGS Measured Urban Soil Chemistry                     | 0                               | 0     | -       | -        | -         |
| Page       | Section     | Railway infrastructure and projects                   | On site                         | 0-50m | 50-250m | 250-500m | 500-2000m |
| 154        | 21.1        | Underground railways (London)                         | 0                               | 0     | 0       | -        | -         |
| 154        | 21.2        | Underground railways (Non-London)                     | 0                               | 0     | 0       | -        | -         |
| 155        | 21.3        | Railway tunnels                                       | 0                               | 0     | 0       | -        | -         |
| <b>155</b> | <b>21.4</b> | <b><u>Historical railway and tunnel features</u></b>  | 0                               | 1     | 3       | -        | -         |
| 155        | 21.5        | Royal Mail tunnels                                    | 0                               | 0     | 0       | -        | -         |
| 156        | 21.6        | Historical railways                                   | 0                               | 0     | 0       | -        | -         |
| 156        | 21.7        | Railways                                              | 0                               | 0     | 0       | -        | -         |
| 156        | 21.8        | Crossrail 1                                           | 0                               | 0     | 0       | 0        | -         |
| 156        | 21.9        | Crossrail 2                                           | 0                               | 0     | 0       | 0        | -         |
| 156        | 21.10       | HS2                                                   | 0                               | 0     | 0       | 0        | -         |

## Recent aerial photograph



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Capture Date: 10/04/2020

Site Area: 1.56ha

## Recent site history - 2017 aerial photograph



Capture Date: 07/05/2017

Site Area: 1.56ha



## Recent site history - 2009 aerial photograph



Capture Date: 01/06/2009

Site Area: 1.56ha

## Recent site history - 2003 aerial photograph



Capture Date: 04/08/2003

Site Area: 1.56ha



## Recent site history - 2000 aerial photograph



Capture Date: 04/09/2000

Site Area: 1.56ha



## OS MasterMap site plan



Site Area: 1.56ha



## 1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical military land

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### 1.1 Historical industrial land uses

Records within 500m

65

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

| ID | Location | Land use          | Dates present | Group ID |
|----|----------|-------------------|---------------|----------|
| 2  | On site  | Unspecified Works | 1977          | 829794   |



| ID       | Location       | Land use                                 | Dates present | Group ID      |
|----------|----------------|------------------------------------------|---------------|---------------|
| <b>3</b> | <b>On site</b> | <b>Industrial Estate</b>                 | <b>1982</b>   | <b>844626</b> |
| <b>4</b> | <b>On site</b> | <b>Unspecified Commercial/Industrial</b> | <b>1977</b>   | <b>938680</b> |
| <b>A</b> | <b>On site</b> | <b>Unspecified Disused Works</b>         | <b>1964</b>   | <b>813337</b> |
| <b>A</b> | <b>On site</b> | <b>Industrial Estate</b>                 | <b>1992</b>   | <b>844663</b> |
| <b>B</b> | <b>On site</b> | <b>Unspecified Commercial/Industrial</b> | <b>1964</b>   | <b>883869</b> |
| <b>C</b> | <b>On site</b> | <b>Unspecified Depot</b>                 | <b>1977</b>   | <b>818116</b> |
| D        | 5m N           | Unspecified Commercial/Industrial        | 1982 - 1992   | 931204        |
| D        | 5m N           | Unspecified Works                        | 1960 - 1968   | 946209        |
| E        | 6m NW          | Unspecified Heap                         | 1992          | 802658        |
| 5        | 18m SE         | Industrial Estate                        | 1964          | 844693        |
| C        | 18m SE         | Unspecified Works                        | 1964          | 829796        |
| A        | 27m S          | Unspecified Commercial/Industrial        | 1992          | 796432        |
| C        | 28m SE         | Unspecified Commercial/Industrial        | 1992          | 796433        |
| A        | 32m S          | Unspecified Works                        | 1977          | 829798        |
| 6        | 55m SE         | Railway Sidings                          | 1964          | 924662        |
| F        | 81m SE         | Railway Sidings                          | 1949          | 880775        |
| 7        | 102m NW        | Unspecified Heap                         | 1960 - 1982   | 972758        |
| H        | 102m NE        | Unspecified Tank                         | 1992          | 823838        |
| C        | 124m E         | Unspecified Heap                         | 1964          | 802656        |
| 8        | 141m NW        | Unspecified Heap                         | 1960 - 1982   | 951205        |
| L        | 156m W         | Unspecified Pit                          | 1960 - 1982   | 847521        |
| M        | 161m W         | Unspecified Heap                         | 1977          | 802662        |
| M        | 186m W         | Unspecified Ground Workings              | 1964          | 799056        |
| B        | 198m W         | Unspecified Heap                         | 1992          | 802663        |
| O        | 210m E         | Unspecified Commercial/Industrial        | 1977          | 796434        |
| Q        | 220m SE        | Unspecified Works                        | 1977          | 829797        |
| S        | 256m E         | Railway Sidings                          | 1960 - 1968   | 935833        |
| O        | 263m E         | Unspecified Works                        | 1964          | 829795        |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| 10 | 270m SW  | Unspecified Commercial/Industrial | 1992          | 872439   |
| U  | 274m E   | Unspecified Tank                  | 1964 - 1977   | 937567   |
| 11 | 286m NW  | Unspecified Heap                  | 1960 - 1982   | 871860   |
| T  | 289m E   | Railway Sidings                   | 1964          | 939160   |
| 12 | 304m S   | Unspecified Commercial/Industrial | 1964          | 981597   |
| 13 | 305m E   | Railway Building                  | 1960 - 1968   | 876615   |
| V  | 305m S   | Unspecified Works                 | 1992          | 855339   |
| 14 | 326m NW  | Unspecified Heap                  | 1960 - 1982   | 946768   |
| W  | 326m SW  | Unspecified Tank                  | 1992          | 823836   |
| X  | 330m S   | Unspecified Tank                  | 1992          | 823837   |
| Y  | 333m SW  | Unspecified Tanks                 | 1949          | 814863   |
| T  | 333m E   | Unspecified Heap                  | 1992          | 935861   |
| T  | 333m E   | Unspecified Heap                  | 1977          | 989616   |
| 16 | 333m NW  | Unspecified Pit                   | 1982          | 838783   |
| T  | 336m E   | Unspecified Heap                  | 1964          | 974778   |
| 17 | 339m S   | Unspecified Works                 | 1977          | 957786   |
| 18 | 357m W   | Unspecified Ground Workings       | 1977          | 799055   |
| 19 | 370m E   | Unspecified Pit                   | 1964          | 838780   |
| 22 | 406m SW  | Unspecified Works                 | 1977          | 954267   |
| 23 | 419m W   | Unspecified Ground Workings       | 1977          | 799057   |
| 24 | 432m NW  | Unspecified Heap                  | 1960 - 1982   | 967127   |
| 25 | 438m W   | Unspecified Heap                  | 1964          | 802661   |
| AA | 439m W   | Unspecified Workshop              | 1977          | 880838   |
| AA | 439m W   | Unspecified Workshop              | 1992          | 910726   |
| 26 | 440m NW  | Unspecified Commercial/Industrial | 1949          | 796408   |
| AB | 448m E   | Unspecified Depot                 | 1977          | 818114   |
| AB | 448m E   | Unspecified Tanks                 | 1992          | 865357   |
| AB | 448m E   | Unspecified Tanks                 | 1977          | 895127   |

| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| AC | 470m SW  | Unspecified Commercial/Industrial | 1992          | 890838   |
| AD | 485m E   | Unspecified Depot                 | 1977          | 818115   |
| AD | 485m E   | Unspecified Commercial/Industrial | 1992          | 926210   |
| 29 | 485m NW  | Unspecified Heap                  | 1960 - 1982   | 900352   |
| AF | 489m W   | Unspecified Tank                  | 1977          | 823835   |
| AC | 494m SW  | Unspecified Commercial/Industrial | 1964 - 1977   | 978415   |
| 31 | 499m NE  | Railway Buildings                 | 1960 - 1968   | 984437   |
| AE | 499m NE  | Unspecified Tanks                 | 1992          | 814865   |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.2 Historical tanks

### Records within 500m

**38**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| E  | 15m W    | Unspecified Tank | 1959 - 1982   | 127284   |
| G  | 81m SE   | Unspecified Tank | 1982 - 1991   | 147079   |
| G  | 82m SE   | Unspecified Tank | 1971          | 125440   |
| H  | 98m NE   | Unspecified Tank | 1989 - 1994   | 139355   |
| G  | 118m SE  | Unspecified Tank | 1971          | 110696   |
| J  | 127m S   | Tanks            | 1988 - 1991   | 123787   |
| J  | 129m S   | Tanks            | 1994          | 146105   |
| K  | 130m S   | Unspecified Tank | 1971 - 1988   | 124306   |
| K  | 136m S   | Unspecified Tank | 1989 - 1994   | 126184   |
| N  | 205m E   | Unspecified Tank | 1959 - 1988   | 126212   |



| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| N  | 220m E   | Unspecified Tank | 1982 - 1988   | 144192   |
| N  | 222m E   | Tanks            | 1959 - 1971   | 143693   |
| N  | 226m E   | Unspecified Tank | 1982 - 1988   | 124221   |
| R  | 228m E   | Unspecified Tank | 1989          | 124814   |
| R  | 235m E   | Unspecified Tank | 1960 - 1987   | 144778   |
| U  | 272m E   | Unspecified Tank | 1982 - 1990   | 141669   |
| U  | 273m E   | Unspecified Tank | 1959 - 1971   | 133122   |
| W  | 327m SW  | Unspecified Tank | 1982 - 1994   | 146128   |
| X  | 331m S   | Unspecified Tank | 1991 - 1994   | 122354   |
| X  | 331m S   | Unspecified Tank | 1988 - 1990   | 122735   |
| 15 | 332m SE  | Tanks            | 1959          | 104978   |
| Y  | 333m SW  | Unspecified Tank | 1982          | 143982   |
| Y  | 339m SW  | Unspecified Tank | 1959 - 1971   | 147860   |
| Y  | 346m SW  | Unspecified Tank | 1982          | 133045   |
| Y  | 352m SW  | Unspecified Tank | 1959 - 1971   | 125928   |
| F  | 358m NE  | Unspecified Tank | 1989          | 110679   |
| F  | 366m NE  | Unspecified Tank | 1982 - 1990   | 132935   |
| AB | 450m E   | Tanks            | 1982 - 1990   | 134855   |
| 27 | 450m SE  | Unspecified Tank | 1989 - 1990   | 130225   |
| AB | 451m E   | Tanks            | 1994          | 127182   |
| AB | 452m E   | Tanks            | 1991          | 122504   |
| AB | 456m E   | Unspecified Tank | 1982 - 1990   | 138127   |
| AB | 458m E   | Tanks            | 1991          | 144603   |
| AE | 487m NE  | Tanks            | 1989 - 1991   | 126350   |
| AE | 495m NE  | Tanks            | 1989 - 1990   | 123270   |
| AE | 496m NE  | Tanks            | 1993 - 1995   | 137761   |
| AF | 497m W   | Unspecified Tank | 1976 - 1991   | 136008   |
| AF | 498m W   | Unspecified Tank | 1993 - 1994   | 122268   |

*This data is sourced from Ordnance Survey / Groundsure.*



### 1.3 Historical energy features

Records within 500m

38

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

| ID | Location | Land use               | Dates present | Group ID |
|----|----------|------------------------|---------------|----------|
| I  | 118m E   | Electricity Substation | 1989 - 1990   | 83682    |
| I  | 127m E   | Electricity Substation | 1993 - 1995   | 77112    |
| I  | 127m E   | Electricity Substation | 1990          | 60158    |
| I  | 130m E   | Electricity Substation | 1991          | 60378    |
| 9  | 163m NW  | Electricity Substation | 1994 - 1995   | 66927    |
| A  | 187m S   | Electricity Substation | 1988 - 1994   | 76174    |
| P  | 219m SE  | Electricity Substation | 1991          | 83408    |
| P  | 224m SE  | Electricity Substation | 1982 - 1990   | 65375    |
| P  | 225m SE  | Electricity Substation | 1971 - 1994   | 69723    |
| L  | 245m NW  | Electricity Substation | 1994 - 1995   | 77328    |
| T  | 263m E   | Electricity Substation | 1982 - 1990   | 73437    |
| T  | 264m E   | Electricity Substation | 1971 - 1994   | 80529    |
| T  | 264m E   | Electricity Substation | 1991          | 64281    |
| T  | 311m E   | Electricity Substation | 1982 - 1991   | 67106    |
| T  | 311m E   | Electricity Substation | 1994          | 71214    |
| T  | 312m E   | Electricity Substation | 1971          | 66130    |
| Q  | 318m SE  | Electricity Substation | 1990 - 1994   | 70350    |
| V  | 318m S   | Electricity Substation | 1991 - 1994   | 74613    |
| V  | 319m S   | Electricity Substation | 1982 - 1990   | 74223    |
| Q  | 319m SE  | Electricity Substation | 1991          | 64940    |
| Z  | 346m SW  | Electricity Substation | 1991          | 70295    |



| ID | Location | Land use               | Dates present | Group ID |
|----|----------|------------------------|---------------|----------|
| Z  | 349m SW  | Electricity Substation | 1989          | 69496    |
| Z  | 349m SW  | Electricity Substation | 1990          | 70549    |
| Z  | 349m SW  | Electricity Substation | 1994          | 79594    |
| Z  | 353m SW  | Electricity Substation | 1988          | 77483    |
| Z  | 353m SW  | Electricity Substation | 1982          | 82314    |
| F  | 362m E   | Electricity Substation | 1994 - 1995   | 78384    |
| 20 | 374m NW  | Electricity Substation | 1994 - 1999   | 65247    |
| 21 | 400m N   | Electricity Substation | 1974 - 1995   | 68827    |
| 28 | 469m S   | Electricity Substation | 1982 - 1994   | 83924    |
| S  | 474m NE  | Electricity Substation | 1989          | 78303    |
| S  | 480m NE  | Electricity Substation | 1990          | 67055    |
| S  | 480m NE  | Electricity Substation | 1990          | 74971    |
| S  | 480m NE  | Electricity Substation | 1989          | 76207    |
| S  | 481m NE  | Electricity Substation | 1982 - 1987   | 66128    |
| 30 | 488m N   | Electricity Substation | 1991 - 1995   | 84681    |
| AG | 497m W   | Electricity Substation | 1994          | 79821    |
| AG | 497m W   | Electricity Substation | 1993          | 83489    |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.4 Historical petrol stations

**Records within 500m**

**0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*



## 1.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.6 Historical military land

Records within 500m

1

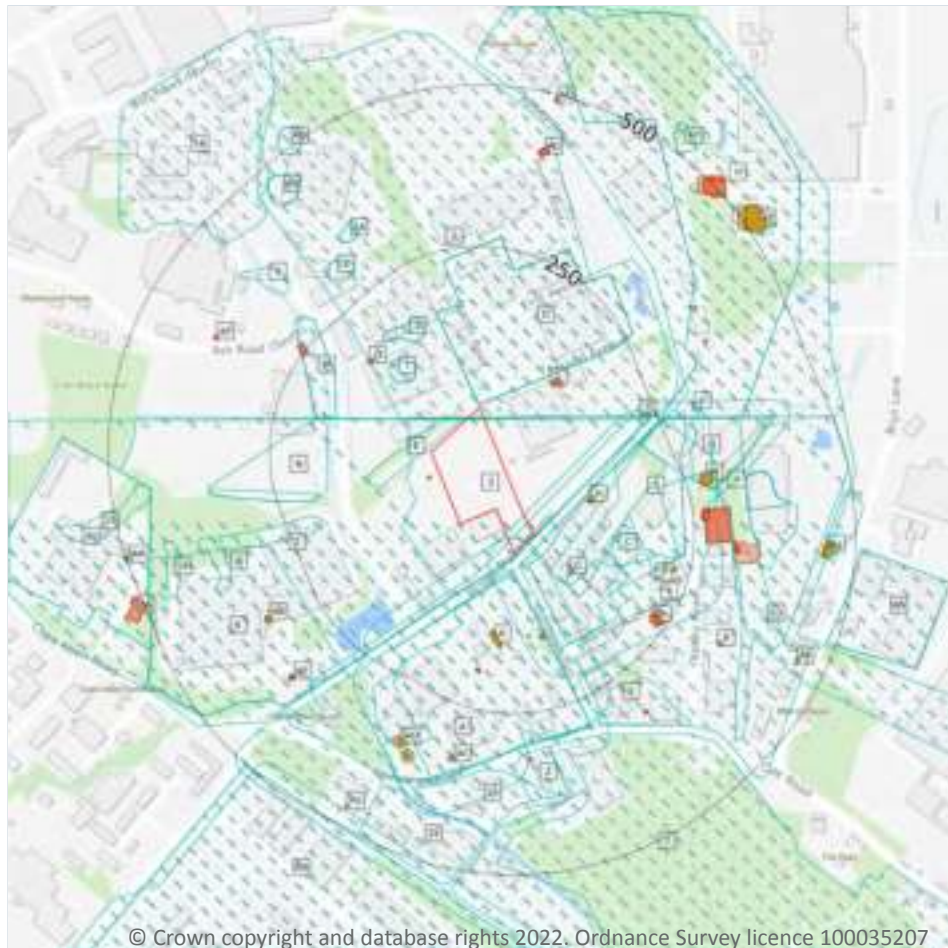
Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

Features are displayed on the Past land use map on **page 14**

| ID | Location | Site Name   | Date of Operation | Activities                                                                                                                                                                                          |
|----|----------|-------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | ROF Wrexham | c.1938 - 1988     | c. WW2: Produced cordite;; post WW2: Cordite production ceased in 1945 and the area was used as an industrial estate by the Welsh Development Agency to boost the local economy; Explosives Factory |

*This data is sourced from Ordnance Survey / Groundsure / other sources.*

## 2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

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### 2.1 Historical industrial land uses

Records within 500m

86

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 22**

| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| 1  | On site  | Unspecified Commercial/Industrial | 1977 | 938680   |
| 2  | On site  | Industrial Estate                 | 1982 | 844626   |
| 3  | On site  | Unspecified Works                 | 1977 | 829794   |

| ID       | Location       | Land Use                                 | Date        | Group ID      |
|----------|----------------|------------------------------------------|-------------|---------------|
| <b>A</b> | <b>On site</b> | <b>Industrial Estate</b>                 | <b>1992</b> | <b>844663</b> |
| <b>A</b> | <b>On site</b> | <b>Unspecified Disused Works</b>         | <b>1964</b> | <b>813337</b> |
| <b>B</b> | <b>On site</b> | <b>Unspecified Commercial/Industrial</b> | <b>1964</b> | <b>883869</b> |
| <b>C</b> | <b>On site</b> | <b>Unspecified Depot</b>                 | <b>1977</b> | <b>818116</b> |
| D        | 5m N           | Unspecified Commercial/Industrial        | 1992        | 931204        |
| D        | 5m N           | Unspecified Commercial/Industrial        | 1982        | 931204        |
| D        | 5m N           | Unspecified Works                        | 1960        | 946209        |
| D        | 5m N           | Unspecified Works                        | 1968        | 946209        |
| E        | 6m NW          | Unspecified Heap                         | 1992        | 802658        |
| 4        | 18m SE         | Industrial Estate                        | 1964        | 844693        |
| C        | 18m SE         | Unspecified Works                        | 1964        | 829796        |
| A        | 27m S          | Unspecified Commercial/Industrial        | 1992        | 796432        |
| C        | 28m SE         | Unspecified Commercial/Industrial        | 1992        | 796433        |
| A        | 32m S          | Unspecified Works                        | 1977        | 829798        |
| 5        | 55m SE         | Railway Sidings                          | 1964        | 924662        |
| F        | 81m SE         | Railway Sidings                          | 1949        | 880775        |
| H        | 102m NE        | Unspecified Tank                         | 1992        | 823838        |
| I        | 102m NW        | Unspecified Heap                         | 1982        | 972758        |
| I        | 102m NW        | Unspecified Heap                         | 1960        | 972758        |
| I        | 102m NW        | Unspecified Heap                         | 1968        | 972758        |
| C        | 124m E         | Unspecified Heap                         | 1964        | 802656        |
| L        | 141m NW        | Unspecified Heap                         | 1982        | 951205        |
| L        | 141m NW        | Unspecified Heap                         | 1960        | 951205        |
| L        | 141m NW        | Unspecified Heap                         | 1968        | 951205        |
| M        | 156m W         | Unspecified Pit                          | 1982        | 847521        |
| M        | 156m W         | Unspecified Pit                          | 1960        | 847521        |
| M        | 156m W         | Unspecified Pit                          | 1968        | 847521        |
| N        | 161m W         | Unspecified Heap                         | 1977        | 802662        |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| N  | 186m W   | Unspecified Ground Workings       | 1964 | 799056   |
| B  | 198m W   | Unspecified Heap                  | 1992 | 802663   |
| Q  | 210m E   | Unspecified Commercial/Industrial | 1977 | 796434   |
| S  | 220m SE  | Unspecified Works                 | 1977 | 829797   |
| U  | 256m E   | Railway Sidings                   | 1960 | 935833   |
| U  | 256m E   | Railway Sidings                   | 1968 | 935833   |
| Q  | 263m E   | Unspecified Works                 | 1964 | 829795   |
| 6  | 270m SW  | Unspecified Commercial/Industrial | 1992 | 872439   |
| W  | 274m E   | Unspecified Tank                  | 1977 | 937567   |
| W  | 274m E   | Unspecified Tank                  | 1964 | 937567   |
| X  | 286m NW  | Unspecified Heap                  | 1982 | 871860   |
| X  | 286m NW  | Unspecified Heap                  | 1960 | 871860   |
| X  | 286m NW  | Unspecified Heap                  | 1968 | 871860   |
| V  | 289m E   | Railway Sidings                   | 1964 | 939160   |
| 7  | 304m S   | Unspecified Commercial/Industrial | 1964 | 981597   |
| Y  | 305m E   | Railway Building                  | 1960 | 876615   |
| Y  | 305m E   | Railway Building                  | 1968 | 876615   |
| Z  | 305m S   | Unspecified Works                 | 1992 | 855339   |
| AA | 326m NW  | Unspecified Heap                  | 1982 | 946768   |
| AA | 326m NW  | Unspecified Heap                  | 1960 | 946768   |
| AA | 326m NW  | Unspecified Heap                  | 1968 | 946768   |
| AB | 326m SW  | Unspecified Tank                  | 1992 | 823836   |
| AC | 330m S   | Unspecified Tank                  | 1992 | 823837   |
| AD | 333m SW  | Unspecified Tanks                 | 1949 | 814863   |
| V  | 333m E   | Unspecified Heap                  | 1977 | 989616   |
| V  | 333m E   | Unspecified Heap                  | 1992 | 935861   |
| 9  | 333m NW  | Unspecified Pit                   | 1982 | 838783   |
| V  | 336m E   | Unspecified Heap                  | 1964 | 974778   |

| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| 10 | 339m S   | Unspecified Works                 | 1977 | 957786   |
| 11 | 357m W   | Unspecified Ground Workings       | 1977 | 799055   |
| 12 | 370m E   | Unspecified Pit                   | 1964 | 838780   |
| 13 | 406m SW  | Unspecified Works                 | 1977 | 954267   |
| 14 | 419m W   | Unspecified Ground Workings       | 1977 | 799057   |
| AH | 432m NW  | Unspecified Heap                  | 1982 | 967127   |
| AH | 432m NW  | Unspecified Heap                  | 1960 | 967127   |
| AH | 432m NW  | Unspecified Heap                  | 1968 | 967127   |
| 15 | 438m W   | Unspecified Heap                  | 1964 | 802661   |
| AI | 439m W   | Unspecified Workshop              | 1977 | 880838   |
| AI | 439m W   | Unspecified Workshop              | 1992 | 910726   |
| 16 | 440m NW  | Unspecified Commercial/Industrial | 1949 | 796408   |
| AJ | 448m E   | Unspecified Tanks                 | 1977 | 895127   |
| AJ | 448m E   | Unspecified Depot                 | 1977 | 818114   |
| AJ | 448m E   | Unspecified Tanks                 | 1992 | 865357   |
| AM | 470m SW  | Unspecified Commercial/Industrial | 1992 | 890838   |
| AN | 485m E   | Unspecified Depot                 | 1977 | 818115   |
| AN | 485m E   | Unspecified Commercial/Industrial | 1992 | 926210   |
| AO | 485m NW  | Unspecified Heap                  | 1982 | 900352   |
| AO | 485m NW  | Unspecified Heap                  | 1960 | 900352   |
| AO | 485m NW  | Unspecified Heap                  | 1968 | 900352   |
| AR | 489m W   | Unspecified Tank                  | 1977 | 823835   |
| AM | 494m SW  | Unspecified Commercial/Industrial | 1977 | 978415   |
| AM | 494m SW  | Unspecified Commercial/Industrial | 1964 | 978415   |
| AT | 499m NE  | Railway Buildings                 | 1960 | 984437   |
| AT | 499m NE  | Railway Buildings                 | 1968 | 984437   |
| AP | 499m NE  | Unspecified Tanks                 | 1992 | 814865   |

*This data is sourced from Ordnance Survey / Groundsure.*



## 2.2 Historical tanks

### Records within 500m

99

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 22**

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| E  | 15m W    | Unspecified Tank | 1959 | 127284   |
| E  | 15m W    | Unspecified Tank | 1971 | 127284   |
| E  | 15m W    | Unspecified Tank | 1982 | 127284   |
| G  | 81m SE   | Unspecified Tank | 1982 | 147079   |
| G  | 81m SE   | Unspecified Tank | 1988 | 147079   |
| G  | 81m SE   | Unspecified Tank | 1989 | 147079   |
| G  | 81m SE   | Unspecified Tank | 1990 | 147079   |
| G  | 82m SE   | Unspecified Tank | 1991 | 147079   |
| G  | 82m SE   | Unspecified Tank | 1971 | 125440   |
| H  | 98m NE   | Unspecified Tank | 1989 | 139355   |
| H  | 98m NE   | Unspecified Tank | 1990 | 139355   |
| H  | 101m NE  | Unspecified Tank | 1991 | 139355   |
| H  | 101m NE  | Unspecified Tank | 1994 | 139355   |
| G  | 118m SE  | Unspecified Tank | 1971 | 110696   |
| K  | 127m S   | Tanks            | 1991 | 123787   |
| K  | 128m S   | Tanks            | 1988 | 123787   |
| K  | 128m S   | Tanks            | 1989 | 123787   |
| K  | 128m S   | Tanks            | 1990 | 123787   |
| K  | 129m S   | Tanks            | 1994 | 146105   |
| K  | 130m S   | Unspecified Tank | 1971 | 124306   |
| K  | 130m S   | Unspecified Tank | 1982 | 124306   |
| K  | 130m S   | Unspecified Tank | 1988 | 124306   |
| K  | 136m S   | Unspecified Tank | 1989 | 126184   |



| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| K  | 136m S   | Unspecified Tank | 1990 | 126184   |
| K  | 136m S   | Unspecified Tank | 1991 | 126184   |
| K  | 137m S   | Unspecified Tank | 1994 | 126184   |
| P  | 205m E   | Unspecified Tank | 1982 | 126212   |
| P  | 205m E   | Unspecified Tank | 1988 | 126212   |
| P  | 206m E   | Unspecified Tank | 1959 | 126212   |
| P  | 206m E   | Unspecified Tank | 1971 | 126212   |
| P  | 220m E   | Unspecified Tank | 1982 | 144192   |
| P  | 220m E   | Unspecified Tank | 1988 | 144192   |
| P  | 222m E   | Tanks            | 1959 | 143693   |
| P  | 222m E   | Tanks            | 1971 | 143693   |
| P  | 226m E   | Unspecified Tank | 1982 | 124221   |
| P  | 226m E   | Unspecified Tank | 1988 | 124221   |
| T  | 228m E   | Unspecified Tank | 1989 | 124814   |
| T  | 228m E   | Unspecified Tank | 1989 | 124814   |
| T  | 235m E   | Unspecified Tank | 1982 | 144778   |
| T  | 235m E   | Unspecified Tank | 1987 | 144778   |
| T  | 236m E   | Unspecified Tank | 1960 | 144778   |
| T  | 236m E   | Unspecified Tank | 1974 | 144778   |
| W  | 272m E   | Unspecified Tank | 1982 | 141669   |
| W  | 272m E   | Unspecified Tank | 1988 | 141669   |
| W  | 272m E   | Unspecified Tank | 1989 | 141669   |
| W  | 272m E   | Unspecified Tank | 1990 | 141669   |
| W  | 273m E   | Unspecified Tank | 1959 | 133122   |
| W  | 273m E   | Unspecified Tank | 1971 | 133122   |
| AB | 327m SW  | Unspecified Tank | 1983 | 146128   |
| AB | 327m SW  | Unspecified Tank | 1993 | 146128   |
| AB | 327m SW  | Unspecified Tank | 1994 | 146128   |

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| AB | 328m SW  | Unspecified Tank | 1982 | 146128   |
| AB | 328m SW  | Unspecified Tank | 1986 | 146128   |
| AB | 328m SW  | Unspecified Tank | 1991 | 146128   |
| AC | 331m S   | Unspecified Tank | 1994 | 122354   |
| AC | 331m S   | Unspecified Tank | 1988 | 122735   |
| AC | 331m S   | Unspecified Tank | 1989 | 122735   |
| AC | 331m S   | Unspecified Tank | 1990 | 122735   |
| AC | 331m S   | Unspecified Tank | 1991 | 122354   |
| 8  | 332m SE  | Tanks            | 1959 | 104978   |
| AD | 333m SW  | Unspecified Tank | 1982 | 143982   |
| AD | 339m SW  | Unspecified Tank | 1959 | 147860   |
| AD | 339m SW  | Unspecified Tank | 1971 | 147860   |
| AD | 346m SW  | Unspecified Tank | 1982 | 133045   |
| AD | 352m SW  | Unspecified Tank | 1959 | 125928   |
| AD | 352m SW  | Unspecified Tank | 1971 | 125928   |
| F  | 358m NE  | Unspecified Tank | 1989 | 110679   |
| F  | 366m NE  | Unspecified Tank | 1982 | 132935   |
| F  | 366m NE  | Unspecified Tank | 1987 | 132935   |
| F  | 366m NE  | Unspecified Tank | 1989 | 132935   |
| F  | 366m NE  | Unspecified Tank | 1990 | 132935   |
| AJ | 450m E   | Tanks            | 1982 | 134855   |
| AJ | 450m E   | Tanks            | 1988 | 134855   |
| AJ | 450m E   | Tanks            | 1989 | 134855   |
| AJ | 450m E   | Tanks            | 1990 | 134855   |
| AK | 450m SE  | Unspecified Tank | 1989 | 130225   |
| AK | 450m SE  | Unspecified Tank | 1990 | 130225   |
| AJ | 451m E   | Tanks            | 1994 | 127182   |
| AJ | 452m E   | Tanks            | 1991 | 122504   |

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| AJ | 456m E   | Unspecified Tank | 1982 | 138127   |
| AJ | 456m E   | Unspecified Tank | 1988 | 138127   |
| AJ | 456m E   | Unspecified Tank | 1989 | 138127   |
| AJ | 456m E   | Unspecified Tank | 1990 | 138127   |
| AJ | 458m E   | Tanks            | 1991 | 144603   |
| AP | 487m NE  | Tanks            | 1989 | 126350   |
| AP | 495m NE  | Tanks            | 1989 | 123270   |
| AP | 495m NE  | Tanks            | 1990 | 123270   |
| AP | 495m NE  | Tanks            | 1990 | 123270   |
| AP | 496m NE  | Tanks            | 1991 | 126350   |
| AP | 496m NE  | Tanks            | 1993 | 137761   |
| AP | 496m NE  | Tanks            | 1995 | 137761   |
| AP | 496m NE  | Tanks            | 1994 | 137761   |
| AR | 497m W   | Unspecified Tank | 1976 | 136008   |
| AR | 497m W   | Unspecified Tank | 1983 | 136008   |
| AR | 498m W   | Unspecified Tank | 1993 | 122268   |
| AR | 498m W   | Unspecified Tank | 1994 | 122268   |
| AR | 498m W   | Unspecified Tank | 1982 | 136008   |
| AR | 498m W   | Unspecified Tank | 1986 | 136008   |
| AR | 498m W   | Unspecified Tank | 1991 | 136008   |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.3 Historical energy features

### Records within 500m

87

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 22**



| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| J  | 118m E   | Electricity Substation | 1989 | 83682    |
| J  | 118m E   | Electricity Substation | 1989 | 83682    |
| J  | 118m E   | Electricity Substation | 1990 | 83682    |
| J  | 127m E   | Electricity Substation | 1993 | 77112    |
| J  | 127m E   | Electricity Substation | 1995 | 77112    |
| J  | 127m E   | Electricity Substation | 1994 | 77112    |
| J  | 127m E   | Electricity Substation | 1990 | 60158    |
| J  | 130m E   | Electricity Substation | 1991 | 60378    |
| O  | 163m NW  | Electricity Substation | 1995 | 66927    |
| O  | 163m NW  | Electricity Substation | 1994 | 66927    |
| A  | 187m S   | Electricity Substation | 1988 | 76174    |
| A  | 187m S   | Electricity Substation | 1989 | 76174    |
| A  | 187m S   | Electricity Substation | 1990 | 76174    |
| A  | 188m S   | Electricity Substation | 1991 | 76174    |
| A  | 188m S   | Electricity Substation | 1994 | 76174    |
| R  | 219m SE  | Electricity Substation | 1991 | 83408    |
| R  | 224m SE  | Electricity Substation | 1982 | 65375    |
| R  | 224m SE  | Electricity Substation | 1988 | 65375    |
| R  | 224m SE  | Electricity Substation | 1989 | 65375    |
| R  | 224m SE  | Electricity Substation | 1990 | 65375    |
| R  | 225m SE  | Electricity Substation | 1971 | 69723    |
| R  | 226m SE  | Electricity Substation | 1994 | 69723    |
| M  | 245m NW  | Electricity Substation | 1995 | 77328    |
| M  | 245m NW  | Electricity Substation | 1994 | 77328    |
| V  | 263m E   | Electricity Substation | 1982 | 73437    |
| V  | 263m E   | Electricity Substation | 1988 | 73437    |
| V  | 263m E   | Electricity Substation | 1989 | 73437    |
| V  | 263m E   | Electricity Substation | 1990 | 73437    |



| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| V  | 264m E   | Electricity Substation | 1994 | 80529    |
| V  | 264m E   | Electricity Substation | 1991 | 64281    |
| V  | 265m E   | Electricity Substation | 1971 | 80529    |
| V  | 311m E   | Electricity Substation | 1982 | 67106    |
| V  | 311m E   | Electricity Substation | 1988 | 67106    |
| V  | 311m E   | Electricity Substation | 1989 | 67106    |
| V  | 311m E   | Electricity Substation | 1990 | 67106    |
| V  | 311m E   | Electricity Substation | 1994 | 71214    |
| V  | 312m E   | Electricity Substation | 1971 | 66130    |
| V  | 312m E   | Electricity Substation | 1991 | 67106    |
| S  | 318m SE  | Electricity Substation | 1994 | 70350    |
| Z  | 318m S   | Electricity Substation | 1994 | 74613    |
| S  | 318m SE  | Electricity Substation | 1990 | 70350    |
| Z  | 319m S   | Electricity Substation | 1982 | 74223    |
| Z  | 319m S   | Electricity Substation | 1988 | 74223    |
| Z  | 319m S   | Electricity Substation | 1989 | 74223    |
| Z  | 319m S   | Electricity Substation | 1990 | 74223    |
| S  | 319m SE  | Electricity Substation | 1991 | 64940    |
| Z  | 320m S   | Electricity Substation | 1991 | 74613    |
| AE | 346m SW  | Electricity Substation | 1991 | 70295    |
| AE | 349m SW  | Electricity Substation | 1994 | 79594    |
| AE | 349m SW  | Electricity Substation | 1989 | 69496    |
| AE | 349m SW  | Electricity Substation | 1990 | 70549    |
| AE | 353m SW  | Electricity Substation | 1982 | 82314    |
| AE | 353m SW  | Electricity Substation | 1988 | 77483    |
| F  | 362m E   | Electricity Substation | 1995 | 78384    |
| F  | 362m E   | Electricity Substation | 1994 | 78384    |
| AF | 374m NW  | Electricity Substation | 1994 | 65247    |

| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| AF | 374m NW  | Electricity Substation | 1999 | 65247    |
| AF | 374m NW  | Electricity Substation | 1995 | 65247    |
| AF | 374m NW  | Electricity Substation | 1995 | 65247    |
| AG | 400m N   | Electricity Substation | 1991 | 68827    |
| AG | 400m N   | Electricity Substation | 1974 | 68827    |
| AG | 401m N   | Electricity Substation | 1982 | 68827    |
| AG | 401m N   | Electricity Substation | 1987 | 68827    |
| AG | 401m N   | Electricity Substation | 1989 | 68827    |
| AG | 401m N   | Electricity Substation | 1989 | 68827    |
| AG | 401m N   | Electricity Substation | 1990 | 68827    |
| AG | 402m N   | Electricity Substation | 1993 | 68827    |
| AG | 402m N   | Electricity Substation | 1995 | 68827    |
| AG | 402m N   | Electricity Substation | 1994 | 68827    |
| AL | 469m S   | Electricity Substation | 1994 | 83924    |
| AL | 469m SW  | Electricity Substation | 1982 | 83924    |
| AL | 469m SW  | Electricity Substation | 1988 | 83924    |
| AL | 469m SW  | Electricity Substation | 1989 | 83924    |
| AL | 469m SW  | Electricity Substation | 1990 | 83924    |
| AL | 469m SW  | Electricity Substation | 1991 | 83924    |
| U  | 474m NE  | Electricity Substation | 1989 | 78303    |
| U  | 480m NE  | Electricity Substation | 1989 | 76207    |
| U  | 480m NE  | Electricity Substation | 1990 | 74971    |
| U  | 480m NE  | Electricity Substation | 1990 | 67055    |
| U  | 481m NE  | Electricity Substation | 1982 | 66128    |
| U  | 481m NE  | Electricity Substation | 1987 | 66128    |
| AQ | 488m N   | Electricity Substation | 1993 | 84681    |
| AQ | 488m N   | Electricity Substation | 1995 | 84681    |
| AQ | 488m N   | Electricity Substation | 1994 | 84681    |

| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| AQ | 489m N   | Electricity Substation | 1991 | 84681    |
| AS | 497m W   | Electricity Substation | 1993 | 83489    |
| AS | 497m W   | Electricity Substation | 1994 | 79821    |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.4 Historical petrol stations

**Records within 500m**

**0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.5 Historical garages

**Records within 500m**

**0**

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*



## 3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Active or recent landfill
- Historical landfill (EA/NRW)
- Historical waste sites
- ◆ Licensed waste sites
- Waste exemptions

### 3.1 Active or recent landfill

Records within 500m

2

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 34**

| ID | Location | Details                                                                                                          |                                                                                                                                                                                             |
|----|----------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 112m E   | Operator: Welsh Assembly Government<br>Site Address: Marlborough Road, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ | WML Number: 37009<br>EPR Reference: WDA001<br>Landfill type: A2 : Other Landfill Site taking Special Waste<br>Status: Closure<br>IPPC Reference: -<br>EPR Number: EAEP\EA\EPR\BP3394FH/A001 |



| ID | Location | Details                                                                                                             |                                                                                                                                                                                                 |
|----|----------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 112m E   | Operator: Welsh Assembly Government<br>Site Address: Marlborough Road, Wrexham Ind Est,<br>Wrexham, Clwyd, LL13 9RJ | WML Number: 37011<br>EPR Reference: WDA002<br>Landfill type: A2 : Other Landfill Site taking Special<br>Waste<br>Status: Closure<br>IPPC Reference: -<br>EPR Number: EAEPR\EA/EPR/BP3994FJ/A001 |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.2 Historical landfill (BGS records)

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

*This data is sourced from the British Geological Survey.*

### 3.3 Historical landfill (LA/mapping records)

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

Landfill sites identified from Local Authority records and high detail historical mapping.

*This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.*

### 3.4 Historical landfill (EA/NRW records)

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>4</b> |
|----------------------------|----------|

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 34**

| ID | Location | Details                                                           |                                                                                                                                                                                                   |                                                                                                                   |
|----|----------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| C  | 173m W   | Site Address: British<br>Celanese<br>Licence Holder<br>Address: - | Waste Licence: Yes<br>Site Reference: LB/2.3<br>Waste Type: Industrial, Liquid sludge<br>Environmental Permitting Regulations<br>(Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: - | Operator: -<br>Licence Holder: British Celanese Limited<br>First Recorded 31/12/1953<br>Last Recorded: 31/12/1983 |

| ID | Location | Details                                                     |                                                                                                                                                                                                |                                                                                                                   |
|----|----------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| C  | 174m W   | Site Address: British Celanese<br>Licence Holder Address: - | Waste Licence: Yes<br>Site Reference: LB/2.3<br>Waste Type: Industrial, Liquid sludge<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: - | Operator: -<br>Licence Holder: British Celanese Limited<br>First Recorded 31/12/1953<br>Last Recorded: 31/12/1983 |
| C  | 210m W   | Site Address: British Celanese<br>Licence Holder Address: - | Waste Licence: Yes<br>Site Reference: LB/2.3<br>Waste Type: Industrial, Liquid sludge<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: - | Operator: -<br>Licence Holder: British Celanese Limited<br>First Recorded 31/12/1953<br>Last Recorded: 31/12/1983 |
| 1  | 272m W   | Site Address: British Celanese<br>Licence Holder Address: - | Waste Licence: Yes<br>Site Reference: LB/2.3<br>Waste Type: Industrial, Liquid sludge<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: - | Operator: -<br>Licence Holder: British Celanese Limited<br>First Recorded 31/12/1953<br>Last Recorded: 31/12/1983 |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.5 Historical waste sites

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>6</b> |
|----------------------------|----------|

Waste site records derived from Local Authority planning records and high detail historical mapping. Features are displayed on the Waste and landfill map on **page 34**

| ID | Location | Address                                                                            | Further Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Date       |
|----|----------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| A  | 174m SE  | Site Address: Marlboough Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ | Type of Site: Waste Incineration Plant (Extension)<br>Planning application reference: 20600<br>Description: Scheme comprises clinical waste incineration plant extension following demolition of existing offices and erection of a 3 storey block of offices adjoining the incineration plant building. Construction - steel cladding walls; metal cladding roof; roller shutter industrial doors; passenger lifts; steel frame, portal frame frame; pitched roof. Scheme comprises clinical waste incineration plant extension following demolition of existing offices and erection of a 3 storey block of offices adjoining the incineration plant building. An application (ref: 20600) for Detailed Planning permission was submitted to Wrexham B.C. on 4th August 1992.<br>Data source: Historic Planning Application<br>Data Type: Point | 01/06/1996 |
| D  | 266m S   | Site Address: Redwither Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RD  | Type of Site: Waste Transfer Station<br>Planning application reference: CB3184<br>Description: Construction of a waste transfer station with associated access and car parking.<br><br>Data source: Historic Planning Application<br>Data Type: Point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 01/07/1999 |
| D  | 266m S   | Site Address: Redwither Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RD  | Type of Site: Asbestos Waste Transfer Station<br>Planning application reference: P/00/0555<br>Description: Provision of a waste transfer station.<br>Data source: Historic Planning Application<br>Data Type: Point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -          |



| ID | Location | Address                                                                                                                  | Further Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date       |
|----|----------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 2  | 322m N   | Site Address: Redwither Business Park,<br>WREXHAM, Clwyd, LL13 9XR                                                       | Type of Site: Waste Recovery Centre<br>Planning application reference: N/A<br>Description: Scheme comprises construction of a waste recovery centre which will include a 50,000 tonne incinerator. Electricity will be produced and fed into the national grid. An application (ref: -) for Detailed Planning permission was submitted to Wrexham B.C. on 11th September 2001. Plans are currently under objection from local residents and Cheshire's planning offices are preparing an environmental impact report. This goes before the Development Regulatory Committee on December 11th 2001. Start on site is subject to planning approval.<br>Data source: Historic Planning Application<br>Data Type: Point | 16/06/2003 |
| E  | 333m S   | Site Address: Unit 2, Redwither Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RD                                | Type of Site: Tyre Recycling Centre (Conversion) -<br>Planning application reference: P/2004/0617<br>Description: Scheme comprises conversion to tyre recycling centre. An application (ref: P/2004/0617) for Detailed Planning permission was submitted to Wrexham B.C. on 28th May 2004.<br>Data source: Historic Planning Application<br>Data Type: Point                                                                                                                                                                                                                                                                                                                                                        |            |
| E  | 376m S   | Site Address: Wrexham Recycling Centre, Redwither Road, Alan's Skip, Hire (Wales) Ltd, Wrexham, WREXHAM, Clwyd, LL13 9RD | Type of Site: Waste Transfer Station -<br>Planning application reference: P/2007/1098<br>Description: Scheme comprises waste sorting, segregation recycling, reprocessing and product storage/waste transfer and landscaping. Construction - planting site works. An application (ref: P/2007/1098) for detailed planning permission was submitted to Wrexham B.C<br>Data source: Historic Planning Application<br>Data Type: Point                                                                                                                                                                                                                                                                                 |            |

*This data is sourced from Ordnance Survey/Groundsure and Local Authority records.*

### 3.6 Licensed waste sites

**Records within 500m**

**87**

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 34**



| ID | Location | Details                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                   |                                                                                                                                             |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 186m E   | Site Name: W D A - Formerly Erie Electronic 2<br>Site Address: Marlborough Road, Wrexham Ind Est, Wrexham, LL13 9RJ<br>Correspondence Address: Unit 7, St Asaph Business Park, Fford Richard Davies, St Asaph, Denbighshire, LL17 0LJ | Type of Site: Other Landfill Site taking Special Waste<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: WDA002<br>EPR reference: -<br>Operator: W D A<br>Waste Management licence No: 37011<br>Annual Tonnage: 0                                          | Issue Date: 02/03/1987<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Closure |
| A  | 193m E   | Site Name: W D A - Formerly Erie Electronic 1<br>Site Address: Marlborough Road, Wrexham Ind Est, Wrexham, LL13 9RJ<br>Correspondence Address: Unit 7, St Asaph Business Park, Fford Richard Davies, St Asaph, Denbighshire, LL17 0LJ | Type of Site: Other Landfill Site taking Special Waste<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: WDA001<br>EPR reference: -<br>Operator: W D A<br>Waste Management licence No: 37009<br>Annual Tonnage: 0                                             | Issue Date: 02/03/1997<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Closure |
| A  | 193m E   | Site Name: W D A - Formerly Erie Electronic 2<br>Site Address: Marlborough Road, Wrexham Ind Est, Wrexham, LL13 9RJ<br>Correspondence Address: Unit 7, St Asaph Business Park, Fford Richard Davies, St Asaph, Denbighshire, LL17 0LJ | Type of Site: Other Landfill Site taking Special Waste<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: WDA002<br>EPR reference: -<br>Operator: W D A<br>Waste Management licence No: 37011<br>Annual Tonnage: 0                                             | Issue Date: 02/03/1987<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Closure |
| A  | 193m E   | Site Name: W D A - Formerly Erie Electronic 1<br>Site Address: Marlborough Road, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                                                                               | Type of Site: Other Landfill Site taking Special Waste<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: WDA001<br>EPR reference: EA/EPR/BP3394FH/A001<br>Operator: Welsh Assembly Government<br>Waste Management licence No: 37009<br>Annual Tonnage: 300000 | Issue Date: 02/03/1997<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Closure |



| ID | Location | Details                                                                                                                                                 |                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                 |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 193m E   | Site Name: W D A - Formerly Erie Electronic 2<br>Site Address: Marlborough Road, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: - | Type of Site: Other Landfill Site taking Special Waste<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: WDA002<br>EPR reference: EA/EPR/BP3994FJ/A001<br>Operator: Welsh Assembly Government<br>Waste Management licence No: 37011<br>Annual Tonnage: 300000 | Issue Date: 02/03/1987<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Closure                     |
| A  | 193m E   | Site Name: -<br>Site Address: W D A - Formerly Erie Electronic 1, Marlborough Road, Wrexham, Wrexham, LL13 9RJ<br>Correspondence Address: -             | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: BP3394FH<br>EPR reference: -<br>Operator: Welsh Assembly Government<br>Waste Management licence No: 0<br>Annual Tonnage: 0                                                                       | Issue Date: 02/03/1997<br>Effective Date: 02/03/1997<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective          |
| A  | 193m E   | Site Name: -<br>Site Address: W D A - Formerly Erie Electronic 2, Wrexham Ind Est, Wrexham, Wrexham, LL13 9RJ<br>Correspondence Address: -              | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: BP3994FJ<br>EPR reference: -<br>Operator: Welsh Assembly Government<br>Waste Management licence No: 0<br>Annual Tonnage: 0                                                                       | Issue Date: 02/03/1987<br>Effective Date: 02/03/1987<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective          |
| A  | 193m E   | Site Name: -<br>Site Address: W D A - Formerly Erie Electronic 1, Marlborough Road, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -               | Type of Site: Other Landfill Site taking Special Waste<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: BP3394FH<br>EPR reference: -<br>Operator: -<br>Waste Management licence No: 37009<br>Annual Tonnage: 0                                                    | Issue Date: 02/03/1997<br>Effective Date: 02/03/1997<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 25/01/2002<br>Cancelled Date: -<br>Status: Effective |



| ID | Location | Details                                                                                                                                                     |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                 |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 193m E   | Site Name: -<br>Site Address: W D A - Formerly Erie<br>Electronic 2, Wrexham Ind Est,<br>Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -              | Type of Site: Other Landfill Site<br>taking Special Waste<br>Size: Unknown<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: BP3994FJ<br>EPR reference: -<br>Operator: -<br>Waste Management licence No:<br>37011<br>Annual Tonnage: 0                      | Issue Date: 02/03/1987<br>Effective Date: 02/03/1987<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 25/01/2002<br>Cancelled Date: -<br>Status: Effective |
| A  | 193m E   | Site Name: -<br>Site Address: W D A - Formerly Erie<br>Electronic 1, Marlborough Road,<br>Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -             | Type of Site: Other Landfill Site<br>taking Special Waste<br>Size: -<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: BP3394FH<br>EPR reference: -<br>Operator: Welsh Assembly<br>Government<br>Waste Management licence No:<br>37009<br>Annual Tonnage: 0 | Issue Date: 02/03/1997<br>Effective Date: 02/03/1997<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 25/01/2002<br>Cancelled Date: -<br>Status: Effective |
| A  | 193m E   | Site Name: -<br>Site Address: W D A - Formerly Erie<br>Electronic 2, Wrexham Ind Est,<br>Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -              | Type of Site: Other Landfill Site<br>taking Special Waste<br>Size: -<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: BP3994FJ<br>EPR reference: -<br>Operator: Welsh Assembly<br>Government<br>Waste Management licence No:<br>37011<br>Annual Tonnage: 0 | Issue Date: 02/03/1987<br>Effective Date: 02/03/1987<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 25/01/2002<br>Cancelled Date: -<br>Status: Effective |
| A  | 193m E   | Site Name: -<br>Site Address: W D A - Formerly Erie<br>Electronic 1, Marlborough Road,<br>Clwyd, Wrexham, Wrexham, LL13<br>9RJ<br>Correspondence Address: - | Type of Site: -<br>Size: Unknown<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: BP3394FH<br>EPR reference: -<br>Operator: Welsh Assembly<br>Government<br>Waste Management licence No:<br>37009<br>Annual Tonnage: 0                                     | Issue Date: 02/03/1997<br>Effective Date: 02/03/1997<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 25/01/2002<br>Cancelled Date: -<br>Status: Effective |



| ID | Location | Details                                                                                                                                                 |                                                                                                                                                                                                                                                                                               |                                                                                                                                                                 |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 193m E   | Site Name: -<br>Site Address: W D A - Formerly Erie Electronic 2, Wrexham Ind Est, Clwyd, Wrexham, Wrexham, LL13 9RJ<br>Correspondence Address: -       | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: BP3994FJ<br>EPR reference: -<br>Operator: Welsh Assembly Government<br>Waste Management licence No: 37011<br>Annual Tonnage: 0                                                               | Issue Date: 02/03/1987<br>Effective Date: 02/03/1987<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 25/01/2002<br>Cancelled Date: -<br>Status: Effective |
| A  | 193m E   | Site Name: -<br>Site Address: W D A - Formerly Erie Electronic 1, Marlborough Road, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -               | Type of Site: Other Landfill Site taking Special Waste<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: BP3394FH<br>EPR reference: -<br>Operator: Welsh Assembly Government<br>Waste Management licence No: 37009<br>Annual Tonnage: -                              | Issue Date: 02/03/1997<br>Effective Date: 02/03/1997<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 25/01/2002<br>Cancelled Date: -<br>Status: Effective |
| A  | 193m E   | Site Name: -<br>Site Address: W D A - Formerly Erie Electronic 2, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                | Type of Site: Other Landfill Site taking Special Waste<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: BP3994FJ<br>EPR reference: -<br>Operator: Welsh Assembly Government<br>Waste Management licence No: 37011<br>Annual Tonnage: -                              | Issue Date: 02/03/1987<br>Effective Date: 02/03/1987<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 25/01/2002<br>Cancelled Date: -<br>Status: Effective |
| A  | 194m E   | Site Name: W D A - Formerly Erie Electronic 1<br>Site Address: Marlborough Road, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: - | Type of Site: Other Landfill Site taking Special Waste<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: WDA001<br>EPR reference: BP3394FH/A001<br>Operator: Welsh Assembly Government<br>Waste Management licence No: 37009<br>Annual Tonnage: 300000 | Issue Date: 02/03/1997<br>Effective Date: -<br>Modified: -<br>Surrendered Date: 0<br>Expiry Date: 0<br>Cancelled Date: 0<br>Status: Closure                     |



| ID | Location | Details                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                               |                                                                                                                                                               |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 194m E   | Site Name: W D A - Formerly Erie Electronic 2<br>Site Address: Marlborough Road, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                                                                               | Type of Site: Other Landfill Site taking Special Waste<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: WDA002<br>EPR reference: BP3994FJ/A001<br>Operator: Welsh Assembly Government<br>Waste Management licence No: 37011<br>Annual Tonnage: 300000 | Issue Date: 02/03/1987<br>Effective Date: -<br>Modified: -<br>Surrendered Date: 0<br>Expiry Date: 0<br>Cancelled Date: 0<br>Status: Closure                   |
| A  | 194m E   | Site Name: W D A - Formerly Erie Electronic 1<br>Site Address: Marlborough Road, Wrexham Ind Est, Wrexham, LL13 9RJ<br>Correspondence Address: Unit 7, St Asaph Business Park, Fford Richard Davies, St Asaph, Denbighshire, LL17 0LJ | Type of Site: Other Landfill Site taking Special Waste<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: WDA001<br>EPR reference: -<br>Operator: W D A<br>Waste Management licence No: 37009<br>Annual Tonnage: 0                                      | Issue Date: 02/03/1997<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Closure                   |
| A  | 201m E   | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment And Transfer Station, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RJ<br>Correspondence Address: -                                                               | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: RP3237SZ<br>EPR reference: -<br>Operator: Sita U K Ltd<br>Waste Management licence No: 0<br>Annual Tonnage: 0                                                                                | Issue Date: 06/03/2001<br>Effective Date: 06/03/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Expired          |
| A  | 201m E   | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment And Transfer Station, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                                                                 | Type of Site: Physical Treatment Facility<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: RP3237SZ<br>EPR reference: -<br>Operator: -<br>Waste Management licence No: 37223<br>Annual Tonnage: 0                                                             | Issue Date: 06/03/2001<br>Effective Date: 06/03/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 09/02/2004<br>Cancelled Date: -<br>Status: Expired |



| ID | Location | Details                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                       |                                                                                                                                                                |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 201m E   | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment And Transfer Station, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                                    | Type of Site: Physical Treatment Facility<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: RP3237SZ<br>EPR reference: -<br>Operator: Sita U K Ltd<br>Waste Management licence No: 37223<br>Annual Tonnage: 0                                | Issue Date: 06/03/2001<br>Effective Date: 06/03/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 09/02/2004<br>Cancelled Date: -<br>Status: Expired  |
| A  | 201m E   | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment And Transfer Station, Wrexham Industrial Estate, Clwyd, Wrexham, Wrexham, LL13 9RJ<br>Correspondence Address: -                           | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: RP3237SZ<br>EPR reference: -<br>Operator: Sita U K Ltd<br>Waste Management licence No: 37223<br>Annual Tonnage: 0                                                    | Issue Date: 06/03/2001<br>Effective Date: 06/03/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 09/02/2004<br>Cancelled Date: -<br>Status: Expired  |
| A  | 201m E   | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment And Transfer Station, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                                    | Type of Site: Physical Treatment Facility<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: RP3237SZ<br>EPR reference: -<br>Operator: Sita U K Ltd<br>Waste Management licence No: 37223<br>Annual Tonnage: 0                                | Issue Date: 06/03/2001<br>Effective Date: 06/03/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 09/02/2004<br>Cancelled Date: -<br>Status: Expired  |
| A  | 212m SE  | Site Name: Wrexham Clinical Waste Treatment And Transfer Station<br>Site Address: Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: - | Type of Site: Physical Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: STE003<br>EPR reference: EA/EPR/AB3033RL/V005<br>Operator: Sita Uk Ltd<br>Waste Management licence No: 37223<br>Annual Tonnage: 16999 | Issue Date: 06/03/2001<br>Effective Date: 10/02/2004<br>Modified: 27/10/2011<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                |                                                                                                                                                                   |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 212m SE  | Site Name: Wrexham Clinical Waste Treatment Plant And Transfer Station<br>Site Address: Wrexham Clinical Waste Treatment Plant And Transfer Station, Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ<br>Correspondence Address: Wrexham Clinical Waste Treatment Plant And Transfer Station, Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ | Type of Site: Physical Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: STE004<br>EPR reference: -<br>Operator: Sterile Technologies (newcastle) Limited<br>Waste Management licence No: 37305<br>Annual Tonnage: 0    | Issue Date: 23/06/2006<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued                        |
| A  | 212m SE  | Site Name: Clinical Waste Treatment ( H D S ) & Transfer Site<br>Site Address: Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ<br>Correspondence Address: Marlborough Road, Wrexham Ind Est, Wrexham, LL13 9RJ                                                                                                                                              | Type of Site: Physical Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: STE003<br>EPR reference: -<br>Operator: Sterile Technologies ( Newcastle ) Ltd<br>Waste Management licence No: 37223<br>Annual Tonnage: 16999  | Issue Date: 06/03/2001<br>Effective Date: 10/02/2004<br>Modified: 10/12/2003<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred |
| A  | 212m SE  | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment And Transfer Station, Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RJ<br>Correspondence Address: -                                                                                                                                                              | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: AB3033RL<br>EPR reference: -<br>Operator: Sita U K Ltd<br>Waste Management licence No: 0<br>Annual Tonnage: 0                                                                 | Issue Date: 06/03/2001<br>Effective Date: 06/03/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective            |
| A  | 212m SE  | Site Name: Clinical Waste Transfer Site<br>Site Address: Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                                                                                                                                                                                            | Type of Site: Physical Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: STE003<br>EPR reference: EA/EPR/AP3094FL/T004<br>Operator: Polkacrest Wales Ltd<br>Waste Management licence No: 37223<br>Annual Tonnage: 16999 | Issue Date: 06/03/2001<br>Effective Date: 10/02/2004<br>Modified: 10/12/2003<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred |



| ID | Location | Details                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                              |                                                                                                                                                                |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 212m SE  | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment Plant & Transfer Station, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                                | Type of Site: Physical Treatment Facility<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: PP3892FX<br>EPR reference: -<br>Operator: -<br>Waste Management licence No: 37305<br>Annual Tonnage: 0                                                            | Issue Date: 23/06/2006<br>Effective Date: 23/06/2006<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 23/06/2006<br>Cancelled Date: -<br>Status: Expired  |
| A  | 212m SE  | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment Plant & Transfer Station, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RJ<br>Correspondence Address: -                              | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: PP3892FX<br>EPR reference: -<br>Operator: Sterile Technologies ( Newcastle ) Ltd<br>Waste Management licence No: 0<br>Annual Tonnage: 0                                                     | Issue Date: 23/06/2006<br>Effective Date: 23/06/2006<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Expired           |
| A  | 212m SE  | Site Name: Wrexham Clinical Waste Treatment And Transfer Station<br>Site Address: Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: - | Type of Site: Physical Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: STE003<br>EPR reference: AB3033RL/V005<br>Operator: Sita U K Ltd<br>Waste Management licence No: 37223<br>Annual Tonnage: 16999                              | Issue Date: 06/03/2001<br>Effective Date: 10/02/2004<br>Modified: 27/10/2011<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |
| A  | 212m SE  | Site Name: Wrexham Clinical Waste Treatment Plant & Transfer Station<br>Site Address: Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                 | Type of Site: Physical Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: STE004<br>EPR reference: EA/EPR/PP3892FX/A001<br>Operator: Sterile Technologies ( Newcastle ) Ltd<br>Waste Management licence No: 37305<br>Annual Tonnage: 0 | Issue Date: 23/06/2006<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: To PPC                     |

| ID | Location | Details                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                  |                                                                                                                                                               |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 212m SE  | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment And Transfer Station, Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: - | Type of Site: Clinical Waste Transfer Station<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: AB3033RL<br>EPR reference: -<br>Operator: Sita U K Ltd<br>Waste Management licence No: 37223<br>Annual Tonnage: 0                       | Issue Date: 06/03/2001<br>Effective Date: 06/03/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 15/03/2017<br>Cancelled Date: -<br>Status: Expired |
| A  | 212m SE  | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment Plant & Transfer Station, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                                   | Type of Site: Physical Treatment Facility<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: PP3892FX<br>EPR reference: -<br>Operator: Sterile Technologies ( Newcastle ) Ltd<br>Waste Management licence No: 37305<br>Annual Tonnage: 0 | Issue Date: 23/06/2006<br>Effective Date: 23/06/2006<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 23/06/2006<br>Cancelled Date: -<br>Status: Expired |
| A  | 212m SE  | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment And Transfer Station, Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: - | Type of Site: Clinical Waste Transfer Station<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: AB3033RL<br>EPR reference: -<br>Operator: -<br>Waste Management licence No: 37223<br>Annual Tonnage: 0                            | Issue Date: 06/03/2001<br>Effective Date: 06/03/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 15/03/2017<br>Cancelled Date: -<br>Status: Expired |
| A  | 212m SE  | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment Plant & Transfer Station, Wrexham Industrial Estate, Clwyd, Wrexham, Wrexham, LL13 9RJ<br>Correspondence Address: -                          | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: PP3892FX<br>EPR reference: -<br>Operator: Sterile Technologies ( Newcastle ) Ltd<br>Waste Management licence No: 37305<br>Annual Tonnage: 0                     | Issue Date: 23/06/2006<br>Effective Date: 23/06/2006<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 23/06/2006<br>Cancelled Date: -<br>Status: Expired |



| ID | Location | Details                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                     |                                                                                                                                                                |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 212m SE  | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment And Transfer Station, Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: - | Type of Site: Clinical Waste Transfer Station<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: AB3033RL<br>EPR reference: -<br>Operator: Sita U K Ltd<br>Waste Management licence No: 37223<br>Annual Tonnage: 0                          | Issue Date: 06/03/2001<br>Effective Date: 06/03/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 15/03/2017<br>Cancelled Date: -<br>Status: Expired  |
| A  | 212m SE  | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment Plant & Transfer Station, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                                   | Type of Site: Physical Treatment Facility<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: PP3892FX<br>EPR reference: -<br>Operator: Sterile Technologies ( Newcastle ) Ltd<br>Waste Management licence No: 37305<br>Annual Tonnage: 0    | Issue Date: 23/06/2006<br>Effective Date: 23/06/2006<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 23/06/2006<br>Cancelled Date: -<br>Status: Expired  |
| A  | 212m SE  | Site Name: -<br>Site Address: Wrexham Clinical Waste Treatment And Transfer Station, Land / Premises At, Marlborough Road, Clwyd, Wrexham, Wrexham, LL13 9RJ<br>Correspondence Address: -                   | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: AB3033RL<br>EPR reference: -<br>Operator: Sita U K Ltd<br>Waste Management licence No: 37223<br>Annual Tonnage: 0                                                  | Issue Date: 06/03/2001<br>Effective Date: 06/03/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 15/03/2017<br>Cancelled Date: -<br>Status: Expired  |
| A  | 212m SE  | Site Name: Wrexham Clinical Waste Treatment And Transfer Station<br>Site Address: Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -    | Type of Site: Clinical Waste Transfer Station<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: STE003<br>EPR reference: AB3033RL/V005<br>Operator: Sita U K Ltd<br>Waste Management licence No: 37223<br>Annual Tonnage: 16999 | Issue Date: 06/03/2001<br>Effective Date: 10/02/2004<br>Modified: 27/10/2011<br>Surrendered Date: 0<br>Expiry Date: 0<br>Cancelled Date: 0<br>Status: Modified |



| ID | Location | Details                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                               |                                                                                                                                            |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 212m SE  | Site Name: Wrexham Clinical Waste Treatment Plant & Transfer Station<br>Site Address: Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                                         | Type of Site: Physical Treatment Facility<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: STE004<br>EPR reference: PP3892FX/A001<br>Operator: Sterile Technologies ( Newcastle ) Ltd<br>Waste Management licence No: 37305<br>Annual Tonnage: 0              | Issue Date: 23/06/2006<br>Effective Date: -<br>Modified: -<br>Surrendered Date: 0<br>Expiry Date: 0<br>Cancelled Date: 0<br>Status: To PPC |
| A  | 213m SE  | Site Name: Marlborough Road Clinical Waste<br>Site Address: Trinco Ltd, Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ<br>Correspondence Address: Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: TRI002<br>EPR reference: -<br>Operator: Sterile Technology(newcastle) Limited<br>Waste Management licence No: 37043<br>Annual Tonnage: 0   | Issue Date: 12/10/1992<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: IPPC   |
| A  | 213m SE  | Site Name: Marlborough Road Clinical Waste<br>Site Address: Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ<br>Correspondence Address: Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ             | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: TRI002<br>EPR reference: -<br>Operator: Sterile Technology ( Newcastle ) Ltd<br>Waste Management licence No: 37043<br>Annual Tonnage: 7739 | Issue Date: 12/10/1992<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: IPPC   |

| ID | Location | Details                                                                                                                                                           |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                               |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 213m SE  | Site Name: -<br>Site Address: Marlborough Road<br>Clinical Waste, Wrexham Industrial<br>Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -             | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: Unknown<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: MP3894FG<br>EPR reference: -<br>Operator: -<br>Waste Management licence No:<br>37043<br>Annual Tonnage: 0                                   | Issue Date: 12/10/1992<br>Effective Date: 12/10/1992<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 09/02/2004<br>Cancelled Date: -<br>Status: Expired |
| A  | 213m SE  | Site Name: -<br>Site Address: Marlborough Road<br>Clinical Waste, Wrexham Industrial<br>Estate, Wrexham, Wrexham, LL13<br>9RJ<br>Correspondence Address: -        | Type of Site: -<br>Size: Unknown<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: MP3894FG<br>EPR reference: -<br>Operator: Sterile Technologies (<br>Newcastle ) Ltd<br>Waste Management licence No: 0<br>Annual Tonnage: 0                                                     | Issue Date: 12/10/1992<br>Effective Date: 12/10/1992<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Expired          |
| A  | 213m SE  | Site Name: -<br>Site Address: Marlborough Road<br>Clinical Waste, Wrexham Industrial<br>Estate, Clwyd, Wrexham, Wrexham,<br>LL13 9RJ<br>Correspondence Address: - | Type of Site: -<br>Size: Unknown<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: MP3894FG<br>EPR reference: -<br>Operator: Sterile Technologies (<br>Newcastle ) Ltd<br>Waste Management licence No:<br>37043<br>Annual Tonnage: 0                                              | Issue Date: 12/10/1992<br>Effective Date: 12/10/1992<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 09/02/2004<br>Cancelled Date: -<br>Status: Expired |
| A  | 213m SE  | Site Name: -<br>Site Address: Marlborough Road<br>Clinical Waste, Wrexham Industrial<br>Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -             | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: -<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: MP3894FG<br>EPR reference: -<br>Operator: Sterile Technologies (<br>Newcastle ) Ltd<br>Waste Management licence No:<br>37043<br>Annual Tonnage: 0 | Issue Date: 12/10/1992<br>Effective Date: 12/10/1992<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 09/02/2004<br>Cancelled Date: -<br>Status: Expired |



| ID | Location | Details                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                               |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 213m SE  | Site Name: -<br>Site Address: Marlborough Road<br>Clinical Waste, Wrexham Industrial<br>Estate, Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                                                                                       | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: -<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: MP3894FG<br>EPR reference: -<br>Operator: Sterile Technologies (<br>Newcastle ) Ltd<br>Waste Management licence No:<br>37043<br>Annual Tonnage: 0                         | Issue Date: 12/10/1992<br>Effective Date: 12/10/1992<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 09/02/2004<br>Cancelled Date: -<br>Status: Expired |
| A  | 214m SE  | Site Name: Marlborough Road<br>Clinical Waste<br>Site Address: Marlborough Road,<br>Wrexham Industrial Estate,<br>Wrexham, Clwyd, LL13 9RJ<br>Correspondence Address: -                                                                     | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: 25000 tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: TRI002<br>EPR reference: MP3894FG/A001<br>Operator: Sterile Technologies (<br>Newcastle ) Ltd<br>Waste Management licence No:<br>37043<br>Annual Tonnage: 7739 | Issue Date: 12/10/1992<br>Effective Date: -<br>Modified: -<br>Surrendered Date: 0<br>Expiry Date: 0<br>Cancelled Date: 0<br>Status: To PPC                    |
| A  | 214m SE  | Site Name: Marlborough Road<br>Clinical Waste<br>Site Address: Marlborough Road,<br>Wrexham Industrial Estate,<br>Wrexham, LL13 7YP<br>Correspondence Address:<br>Ambassador Place, 3, Stockport<br>Road, Altrincham, Cheshire, WA15<br>8DB | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: 25000 tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: TRI002<br>EPR reference: -<br>Operator: Trinco Ltd<br>Waste Management licence No:<br>37043<br>Annual Tonnage: 0                                               | Issue Date: 12/10/1992<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: IPPC                      |

| ID | Location | Details                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                            |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 214m SE  | Site Name: Marlborough Road Clinical Waste<br>Site Address: Malborough Road, Wrexham Industrial Estate, Wrexham, LL13 7YP<br>Correspondence Address: Ambassador Place, 3, Stockport Road, Altrincham, Cheshire, WA15 8DB                                                      | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: TRI002<br>EPR reference: -<br>Operator: Trinco Ltd<br>Waste Management licence No: 37043<br>Annual Tonnage: 0                     | Issue Date: 12/10/1992<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: IPPC                                   |
| A  | 218m SE  | Site Name: Clinical Waste Treatment (hds) And Transfer Site<br>Site Address: Eurocare Environmental Services Ltd, Malborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ<br>Correspondence Address: Mailing Suite 1, St Peters Wharf, Newcastle-upon-tyne, NE6 1TZ     | Type of Site: Physical Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: EUR001<br>EPR reference: -<br>Operator: Eurocare Environmental Services Ltd<br>Waste Management licence No: 37223<br>Annual Tonnage: 16999      | Issue Date: 06/03/2001<br>Effective Date: -<br>Modified: 10/06/2002<br>Surrendered Date: -<br>Expiry Date: 12/12/2001<br>Cancelled Date: -<br>Status: Modified             |
| A  | 218m SE  | Site Name: Clinical Waste Treatment (hds) And Transfer Site<br>Site Address: Eurocare Environmental Services Ltd, Malborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ<br>Correspondence Address: Lindfield House, 1st Floor, Stuart Road, Gravesend, Kent, DA11 0BZ | Type of Site: Physical Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: STE003<br>EPR reference: -<br>Operator: Sterile Technologies (newcastle) Limited<br>Waste Management licence No: 37223<br>Annual Tonnage: 16999 | Issue Date: 06/03/2001<br>Effective Date: 10/02/2004<br>Modified: 10/12/2003<br>Surrendered Date: -<br>Expiry Date: 12/12/2001<br>Cancelled Date: -<br>Status: Transferred |
| E  | 332m S   | Site Name: Bluestone Chemicals Ltd<br>Site Address: Bluestone Chemicals, Redwith Rd, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: -                                                                                                         | Type of Site: Chemical Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: BLU003<br>EPR reference: TP3594FK/A001<br>Operator: Bluestone Chemicals Ltd<br>Waste Management licence No: 37094<br>Annual Tonnage: 931        | Issue Date: 17/01/1994<br>Effective Date: -<br>Modified: -<br>Surrendered Date: 0<br>Expiry Date: 0<br>Cancelled Date: 0<br>Status: Expired                                |



| ID | Location | Details                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                       |                                                                                                                                                               |
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| E  | 333m S   | Site Name: Bluestone Chemicals Ltd<br>Site Address: Bluestone Chemicals, Redwith Rd, Wrexham Industrial Estate, Wrexham, LL13 9RD<br>Correspondence Address: Bluestone Chemicals, Redwith Rd, Wrexham Industrial Estate, Wrexham, LL13 9RD | Type of Site: Chemical Treatment Facility<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: BLU003<br>EPR reference: -<br>Operator: Bluestone Chemicals Ltd<br>Waste Management licence No: 37094<br>Annual Tonnage: 0 | Issue Date: 17/01/1994<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Expired                   |
| E  | 333m S   | Site Name: -<br>Site Address: Bluestone Chemicals Ltd, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: -                                                                                                    | Type of Site: Chemical Treatment Facility<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: TP3594FK<br>EPR reference: -<br>Operator: -<br>Waste Management licence No: 37094<br>Annual Tonnage: 0                     | Issue Date: 17/01/1994<br>Effective Date: 17/01/1994<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 13/09/1999<br>Cancelled Date: -<br>Status: Expired |
| E  | 333m S   | Site Name: -<br>Site Address: Bluestone Chemicals Ltd, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RD<br>Correspondence Address: -                                                                                                  | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: TP3594FK<br>EPR reference: -<br>Operator: Bluestone Chemicals Ltd<br>Waste Management licence No: 0<br>Annual Tonnage: 0                             | Issue Date: 17/01/1994<br>Effective Date: 17/01/1994<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Expired          |
| E  | 333m S   | Site Name: -<br>Site Address: Bluestone Chemicals Ltd, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: -                                                                                                    | Type of Site: Chemical Treatment Facility<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: TP3594FK<br>EPR reference: -<br>Operator: Bluestone Chemicals Ltd<br>Waste Management licence No: 37094<br>Annual Tonnage: 0     | Issue Date: 17/01/1994<br>Effective Date: 17/01/1994<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 13/09/1999<br>Cancelled Date: -<br>Status: Expired |

| ID | Location | Details                                                                                                                                                                |                                                                                                                                                                                                                                                                                                |                                                                                                                                                               |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E  | 333m S   | Site Name: -<br>Site Address: Bluestone Chemicals Ltd, Wrexham Industrial Estate, Clwyd, Wrexham, Wrexham, LL13 9RD<br>Correspondence Address: -                       | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: TP3594FK<br>EPR reference: -<br>Operator: Bluestone Chemicals Ltd<br>Waste Management licence No: 37094<br>Annual Tonnage: 0                                                                  | Issue Date: 17/01/1994<br>Effective Date: 17/01/1994<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 13/09/1999<br>Cancelled Date: -<br>Status: Expired |
| E  | 333m S   | Site Name: -<br>Site Address: Bluestone Chemicals Ltd, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: -                                | Type of Site: Chemical Treatment Facility<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: TP3594FK<br>EPR reference: -<br>Operator: Bluestone Chemicals Ltd<br>Waste Management licence No: 37094<br>Annual Tonnage: 0                                              | Issue Date: 17/01/1994<br>Effective Date: 17/01/1994<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 13/09/1999<br>Cancelled Date: -<br>Status: Expired |
| F  | 363m S   | Site Name: Entrec Ltd<br>Site Address: Entrec Ltd, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD<br>Correspondence Address: -                           | Type of Site: Metal Recycling Site (Vehicle Dismantler)<br>Size: >= 25000 tonnes 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: ENT002<br>EPR reference: YP3994FY/V003<br>Operator: Entrec Ltd<br>Waste Management licence No: 37267<br>Annual Tonnage: 25000    | Issue Date: 08/09/2004<br>Effective Date: -<br>Modified: 07/05/2014<br>Surrendered Date: 0<br>Expiry Date: 0<br>Cancelled Date: 0<br>Status: Modified         |
| F  | 364m S   | Site Name: Entrec Redwither Road<br>Site Address: Land / Premises At, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: - | Type of Site: Material Recycling Treatment Facility<br>Size: >= 25000 tonnes 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: ENT002<br>EPR reference: EA/EPR/YP3994FY/A001<br>Operator: Entrec Ltd<br>Waste Management licence No: 37267<br>Annual Tonnage: 25000 | Issue Date: 08/09/2004<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued                    |



| ID | Location | Details                                                                                                                                        |                                                                                                                                                                                                                                                                          |                                                                                                                                                        |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| F  | 364m S   | Site Name: -<br>Site Address: Entrec Ltd, Wrexham<br>Industrial Estate, Wrexham,<br>Wrexham, LL13 9RD<br>Correspondence Address: -             | Type of Site: -<br>Size: Unknown<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: YP3994FY<br>EPR reference: -<br>Operator: Entrec Ltd<br>Waste Management licence No: 0<br>Annual Tonnage: 25000                                                   | Issue Date: 10/09/2004<br>Effective Date: 10/09/2004<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective |
| F  | 364m S   | Site Name: -<br>Site Address: -<br>Correspondence Address: -                                                                                   | Type of Site: Metal Recycling Site<br>(Vehicle Dismantler)<br>Size: Unknown<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: YP3994FY<br>EPR reference: -<br>Operator: -<br>Waste Management licence No:<br>37267<br>Annual Tonnage: 25000          | Issue Date: 10/09/2004<br>Effective Date: 10/09/2004<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective |
| F  | 364m S   | Site Name: Entrec Ltd<br>Site Address: Entrec Ltd, Entrec Ltd,<br>Wrexham Industrial Estate,<br>Wrexham, LL13 9RD<br>Correspondence Address: - | Type of Site: Metal Recycling Site<br>(Vehicle Dismantler)<br>Size: Unknown<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: YP3994FY<br>EPR reference: -<br>Operator: Entrec Ltd<br>Waste Management licence No:<br>37267<br>Annual Tonnage: 25000 | Issue Date: 10/09/2004<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective          |
| F  | 364m S   | Site Name: -<br>Site Address: Entrec Ltd, Wrexham<br>Industrial Estate, Wrexham, LL13<br>9RD<br>Correspondence Address: -                      | Type of Site: Metal Recycling Site<br>(Vehicle Dismantler)<br>Size: -<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: YP3994FY<br>EPR reference: -<br>Operator: Entrec Ltd<br>Waste Management licence No:<br>37267<br>Annual Tonnage: 25000       | Issue Date: 10/09/2004<br>Effective Date: 10/09/2004<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective |

| ID | Location | Details                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                        |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| F  | 364m S   | Site Name: -<br>Site Address: Entrec Ltd, Wrexham<br>Industrial Estate, Wrexham,<br>Wrexham, LL13 9RD<br>Correspondence Address: -                                                         | Type of Site: -<br>Size: Unknown<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: YP3994FY<br>EPR reference: -<br>Operator: Entrec Ltd<br>Waste Management licence No:<br>37267<br>Annual Tonnage: 25000                                                                                          | Issue Date: 10/09/2004<br>Effective Date: 10/09/2004<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective |
| F  | 364m S   | Site Name: -<br>Site Address: Entrec Ltd, Wrexham<br>Industrial Estate, Wrexham, LL13<br>9RD<br>Correspondence Address: -                                                                  | Type of Site: Metal Recycling Site<br>(Vehicle Dismantler)<br>Size: -<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: YP3994FY<br>EPR reference: -<br>Operator: ENTREC LTD<br>Waste Management licence No:<br>37267<br>Annual Tonnage: -                                                         | Issue Date: 02/12/2020<br>Effective Date: 02/12/2020<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective |
| G  | 371m E   | Site Name: Phase 2 Wrexham<br>Recycling Park<br>Site Address: Wrexham Recycling<br>Park, Bryn Lane, Wrexham<br>Industrial Estate, Wrexham, Clwyd,<br>LL13 9UT<br>Correspondence Address: - | Type of Site: Biological Treatment<br>Facility<br>Size: >= 25000 tonnes 75000<br>tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: WAS150<br>EPR reference:<br>EA/EPR/BB3436RA/A001<br>Operator: Waste Recycling Limited<br>Waste Management licence No:<br>103238<br>Annual Tonnage: 70000 | Issue Date: 18/04/2012<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued             |
| G  | 371m E   | Site Name: -<br>Site Address: Phase 2 Wrexham<br>Recycling Park, Wrexham Recycling<br>Park, Wrexham Industrial Estate,<br>Wrexham, Wrexham, LL13 9UT<br>Correspondence Address: -          | Type of Site: -<br>Size: Unknown<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: BB3436RA<br>EPR reference: -<br>Operator: Waste Recycling Limited<br>Waste Management licence No: 0<br>Annual Tonnage: 70000                                                                                    | Issue Date: 18/04/2012<br>Effective Date: 18/04/2012<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective |



| ID | Location | Details                                                                                                                                                                        |                                                                                                                                                                                                                                                                      |                                                                                                                                                        |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| G  | 371m E   | Site Name: -<br>Site Address: Phase 2 Wrexham Recycling Park, Wrexham Recycling Park, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UT<br>Correspondence Address: -         | Type of Site: Biological Treatment Facility<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: BB3436RA<br>EPR reference: -<br>Operator: -<br>Waste Management licence No: 103238<br>Annual Tonnage: 70000                             | Issue Date: 18/04/2012<br>Effective Date: 18/04/2012<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective |
| G  | 372m E   | Site Name: Phase 2 Wrexham Recycling Park<br>Site Address: Wrexham Recycling Park, Bryn Lane, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UT<br>Correspondence Address: - | Type of Site: Biological Treatment Facility<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: WAS150<br>EPR reference: BB3436RA/A001<br>Operator: Waste Recycling Limited<br>Waste Management licence No: 103238<br>Annual Tonnage: 0 | Issue Date: 18/04/2012<br>Effective Date: -<br>Modified: -<br>Surrendered Date: 0<br>Expiry Date: 0<br>Cancelled Date: 0<br>Status: Issued             |
| E  | 400m S   | Site Name: -<br>Site Address: A S H Wrexham Recycling Centre, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RD<br>Correspondence Address: -                               | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: WP3094FB<br>EPR reference: -<br>Operator: Alan's Skip Hire ( Wales) Ltd<br>Waste Management licence No: 0<br>Annual Tonnage: 24999                                  | Issue Date: 09/03/2000<br>Effective Date: 09/03/2000<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective |
| E  | 400m S   | Site Name: -<br>Site Address: A S H Wrexham Recycling Centre, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: -                                 | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: WP3094FB<br>EPR reference: -<br>Operator: -<br>Waste Management licence No: 37211<br>Annual Tonnage: 24999             | Issue Date: 09/03/2000<br>Effective Date: 09/03/2000<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Effective |

| ID | Location | Details                                                                                                                                                               |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                   |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F  | 405m S   | Site Name: A S H Wrexham Recycling Centre<br>Site Address: Site One, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: - | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: ALA002<br>EPR reference: WP3094FB/V<br>Operator: Alan's Skip Hire ( Wales) Ltd<br>Waste Management licence No: 37211<br>Annual Tonnage: 0                    | Issue Date: 09/03/2000<br>Effective Date: 01/06/2005<br>Modified: 15/04/2015<br>Surrendered Date: 0<br>Expiry Date: 0<br>Cancelled Date: 0<br>Status: Modified    |
| F  | 406m S   | Site Name: A S H Wrexham Recycling Centre<br>Site Address: Site One, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: - | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: ALA002<br>EPR reference: EA/EPR/WP3094FB/V002<br>Operator: Alan's Skip Hire ( Wales) Ltd<br>Waste Management licence No: 37211<br>Annual Tonnage: 24999 | Issue Date: 09/03/2000<br>Effective Date: 01/06/2005<br>Modified: 22/03/2013<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified    |
| F  | 406m S   | Site Name: Wrexham Recycling Centre<br>Site Address: Site 1, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: -         | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: ALA002<br>EPR reference: WP3094FB/T003<br>Operator: Alan's Skip Hire ( Wales) Ltd.<br>Waste Management licence No: 37211<br>Annual Tonnage: 54196       | Issue Date: 09/03/2000<br>Effective Date: 01/06/2005<br>Modified: 10/12/2003<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred |

| ID | Location | Details                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                          |                                                                                                                                                       |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| F  | 412m S   | Site Name: Wrexham Recycling Centre<br>Site Address: Site 1, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD<br>Correspondence Address: Site 1, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: AMR001<br>EPR reference: -<br>Operator: Alfa Environmental Management Ltd<br>Waste Management licence No: 37211<br>Annual Tonnage: 0  | Issue Date: 09/03/2000<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued            |
| F  | 412m S   | Site Name: Wrexham Recycling Centre<br>Site Address: Site 1, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD<br>Correspondence Address: Site 1, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: AMR001<br>EPR reference: -<br>Operator: Alpha Environmental Management Ltd<br>Waste Management licence No: 37211<br>Annual Tonnage: 0 | Issue Date: 09/03/2000<br>Effective Date: -<br>Modified: 10/12/2003<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |
| H  | 416m SW  | Site Name: Redwither Road Transfer Station<br>Site Address: Unit 1, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: -                                                      | Type of Site: Special Waste Transfer Station<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: REY001<br>EPR reference: AP3394FT/V003<br>Operator: North Western Insulation Ltd<br>Waste Management licence No: 37221<br>Annual Tonnage: 4999        | Issue Date: 19/02/2001<br>Effective Date: -<br>Modified: 17/03/2006<br>Surrendered Date: 0<br>Expiry Date: 0<br>Cancelled Date: 0<br>Status: Expired  |



| ID | Location | Details                                                                                                                                                              |                                                                                                                                                                                                                                                                                                     |                                                                                                                                                               |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H  | 417m SW  | Site Name: Redwither Road Transfer Station<br>Site Address: Unit 1, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: - | Type of Site: Special Waste Transfer Station<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: REY001<br>EPR reference: AP3394FT/V003<br>Operator: Reynolds Services North Western Insulation Ltd<br>Waste Management licence No: 37221<br>Annual Tonnage: 4999 | Issue Date: 19/02/2001<br>Effective Date: -<br>Modified: 17/03/2006<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified         |
| H  | 417m SW  | Site Name: -<br>Site Address: Redwither Road Transfer Station, Unit 1, Wrexham Industrial Estate, Wrexham, Wrexham, LL13 9RD<br>Correspondence Address: -            | Type of Site: -<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: AP3394FT<br>EPR reference: -<br>Operator: North Western Insulation Ltd<br>Waste Management licence No: 0<br>Annual Tonnage: 0                                                                      | Issue Date: 19/02/2001<br>Effective Date: 19/02/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Expired          |
| H  | 417m SW  | Site Name: -<br>Site Address: Redwither Road Transfer Station, Unit 1, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: -              | Type of Site: Special Waste Transfer Station<br>Size: -<br>Environmental Permitting Regulations (Waste) Licence Number: AP3394FT<br>EPR reference: -<br>Operator: North Western Insulation Ltd<br>Waste Management licence No: 37221<br>Annual Tonnage: 0                                           | Issue Date: 19/02/2001<br>Effective Date: 19/02/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 01/05/2012<br>Cancelled Date: -<br>Status: Expired |
| H  | 417m SW  | Site Name: -<br>Site Address: Redwither Road Transfer Station, Unit 1, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD<br>Correspondence Address: -              | Type of Site: Special Waste Transfer Station<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: AP3394FT<br>EPR reference: -<br>Operator: -<br>Waste Management licence No: 37221<br>Annual Tonnage: 0                                                                | Issue Date: 19/02/2001<br>Effective Date: 19/02/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 01/05/2012<br>Cancelled Date: -<br>Status: Expired |



| ID | Location | Details                                                                                                                                                                   |                                                                                                                                                                                                                                                                                             |                                                                                                                                                               |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H  | 417m SW  | Site Name: -<br>Site Address: Redwither Road<br>Transfer Station, Unit 1, Wrexham<br>Industrial Estate, Wrexham, Clwyd,<br>LL13 9RD<br>Correspondence Address: -          | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: -<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: AP3394FT<br>EPR reference: -<br>Operator: North Western Insulation<br>Ltd<br>Waste Management licence No:<br>37221<br>Annual Tonnage: 0 | Issue Date: 19/02/2001<br>Effective Date: 19/02/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 01/05/2012<br>Cancelled Date: -<br>Status: Expired |
| H  | 417m SW  | Site Name: -<br>Site Address: Redwither Road<br>Transfer Station, Unit 1, Wrexham<br>Industrial Estate, Wrexham, Clwyd,<br>LL13 9RD<br>Correspondence Address: -          | Type of Site: Special Waste Transfer<br>Station<br>Size: -<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: AP3394FT<br>EPR reference: -<br>Operator: North Western Insulation<br>Ltd<br>Waste Management licence No:<br>37221<br>Annual Tonnage: 0                    | Issue Date: 19/02/2001<br>Effective Date: 19/02/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 01/05/2012<br>Cancelled Date: -<br>Status: Expired |
| H  | 417m SW  | Site Name: -<br>Site Address: Redwither Road<br>Transfer Station, Unit 1, Wrexham<br>Industrial Estate, Clwyd, Wrexham,<br>Wrexham, LL13 9RD<br>Correspondence Address: - | Type of Site: -<br>Size: Unknown<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: AP3394FT<br>EPR reference: -<br>Operator: North Western Insulation<br>Ltd<br>Waste Management licence No:<br>37221<br>Annual Tonnage: 0                                              | Issue Date: 19/02/2001<br>Effective Date: 19/02/2001<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: 01/05/2012<br>Cancelled Date: -<br>Status: Expired |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.7 Waste exemptions

#### Records within 500m

14

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 34**



| ID | Location | Site                                                                                                                                                    | Reference     | Category                 | Sub-Category  | Description                                                                                   |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------|---------------|-----------------------------------------------------------------------------------------------|
| B  | 168m NE  | Portal Construction N.W. Ltd, Pacific Park, Bridge Road Wrexham Industrial Estate, Wrexham, LL13 9PN, LL13 9PN                                          | NRW-WME067316 | Treating waste exemption | Not on a farm | Screening and blending of waste                                                               |
| B  | 168m NE  | Portal Construction N.W. Ltd, Pacific Park, Bridge Road Wrexham Industrial Estate, Wrexham, LL13 9PN, LL13 9PN                                          | NRW-WME067316 | Using waste exemption    | Not on a farm | Use of waste in construction                                                                  |
| D  | 290m S   | Alan's Skip Hire (Wales) Ltd, Alan's Skip Hire (Wales) Ltd, Redwither Road, Wrexham Industrial Estate, Wrexham, Wrexham County Borough Council, LL139RD | NRW-WME007992 | Storing waste exemption  | Not on a farm | Storage of waste in secure containers                                                         |
| D  | 290m S   | Alan's Skip Hire (Wales) Ltd, Alan's Skip Hire (Wales) Ltd, Redwither Road, Wrexham Industrial Estate, Wrexham, Wrexham County Borough Council, LL139RD | NRW-WME007992 | Storing waste exemption  | Not on a farm | Storage of waste in a secure place                                                            |
| D  | 290m S   | Alan's Skip Hire (Wales) Ltd, Alan's Skip Hire (Wales) Ltd, Redwither Road, Wrexham Industrial Estate, Wrexham, Wrexham County Borough Council, LL139RD | NRW-WME007992 | Treating waste exemption | Not on a farm | Preparatory treatments (baling, sorting, shredding etc)                                       |
| D  | 290m S   | Alan's Skip Hire (Wales) Ltd, Alan's Skip Hire (Wales) Ltd, Redwither Road, Wrexham Industrial Estate, Wrexham, Wrexham County Borough Council, LL139RD | NRW-WME007992 | Treating waste exemption | Not on a farm | Screening and blending of waste                                                               |
| D  | 290m S   | Alan's Skip Hire (Wales) Ltd, Alan's Skip Hire (Wales) Ltd, Redwither Road, Wrexham Industrial Estate, Wrexham, Wrexham County Borough Council, LL139RD | NRW-WME007992 | Treating waste exemption | Not on a farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |

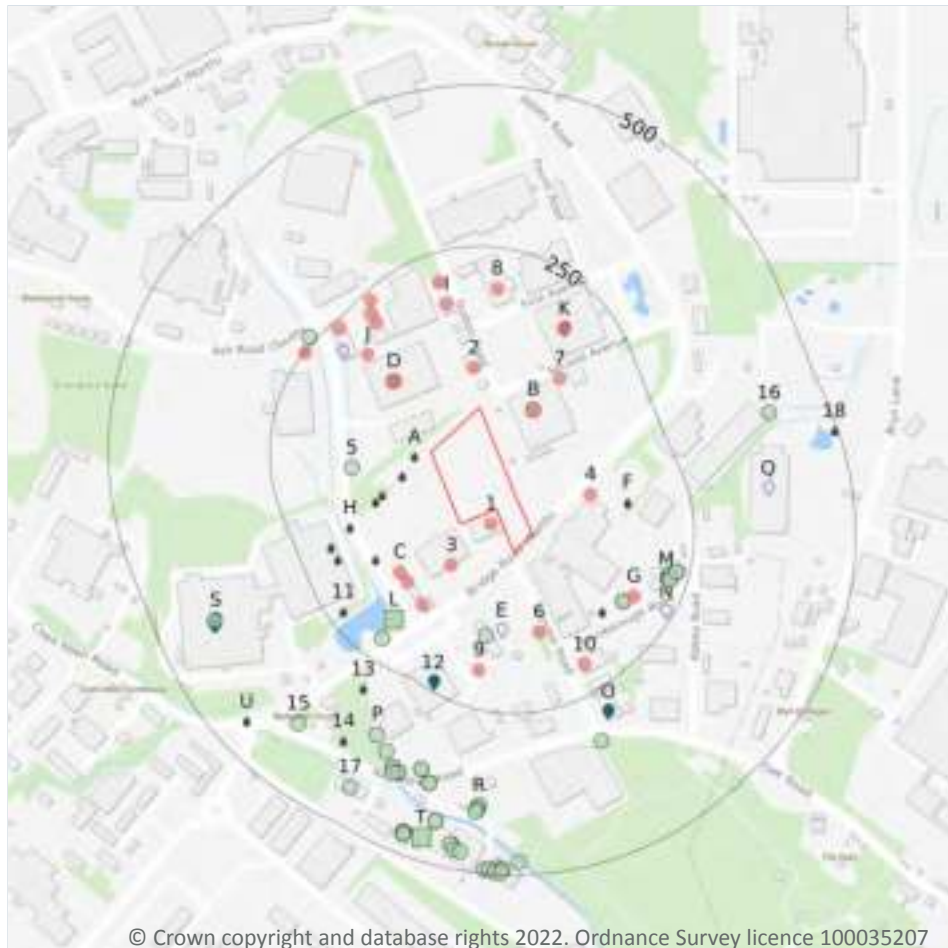


| ID | Location | Site                                                                                                                                                    | Reference     | Category                 | Sub-Category                       | Description                                             |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------|------------------------------------|---------------------------------------------------------|
| D  | 290m S   | Alan's Skip Hire (Wales) Ltd, Alan's Skip Hire (Wales) Ltd, Redwither Road, Wrexham Industrial Estate, Wrexham, Wrexham County Borough Council, LL139RD | NRW-WME007992 | Treating waste exemption | Not on a farm                      | Mechanical treatment of end-of-life tyres               |
| D  | 290m S   | Alan's Skip Hire (Wales) Ltd, Alan's Skip Hire (Wales) Ltd, Redwither Road, Wrexham Industrial Estate, Wrexham, Wrexham County Borough Council, LL139RD | NRW-WME007992 | Treating waste exemption | Not on a farm                      | Recovery of scrap metal                                 |
| D  | 290m S   | Alan's Skip Hire (Wales) Ltd, Alan's Skip Hire (Wales) Ltd, Redwither Road, Wrexham Industrial Estate, Wrexham, Wrexham County Borough Council, LL139RD | NRW-WME007992 | Using waste exemption    | Not on a farm                      | Burning of waste as a fuel in a small appliance         |
| 3  | 381m SE  | wrexham county bourough council, Wrexham County Borough Council, Abbey Road, Ystad Ddiwydiannol Wrecsam, Wrecsam, LL139PW                               | NRW-WME022217 | Storing waste exemption  | Not on a farm                      | Storage of waste in a secure place                      |
| 4  | 411m NE  | 108 Abbey Road, Wrexham Industrial Estate, Wrexham, Wrecsam, LL13 9RF                                                                                   | NRW-WME002295 | Storing waste exemption  | Waste Exemption - Non-Agricultural | Storage of waste in a secure place                      |
| 5  | 451m E   | 3C Waste Ltd, Bryn Lane civic amenity site, Bryn lane, Wrexham industrial estate, Wrexham, LL13 9UT                                                     | NRW-WME059160 | Storing waste exemption  | Not on a farm                      | Storage of waste in a secure place                      |
| 6  | 472m NW  | BK Nolte Contracts Limited, B K House, Ash Road South, Ystad Ddiwydiannol Wrecsam, Wrecsam, LL139UG                                                     | NRW-WME008197 | Treating waste exemption | Not on a farm                      | Preparatory treatments (baling, sorting, shredding etc) |

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Historical licensed industrial activities
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Radioactive Substance Authorisations
- Licensed Discharges to controlled waters
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)

### 4.1 Recent industrial land uses

Records within 250m

26

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 64**

| ID | Location | Company                     | Address                                                                 | Activity                              | Category            |
|----|----------|-----------------------------|-------------------------------------------------------------------------|---------------------------------------|---------------------|
| 1  | 16m W    | Coolpoint                   | Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS        | Cooling and Refrigeration             | Industrial Products |
| 2  | 62m N    | Paul Bristow Associates Ltd | Unit D6, Dutton Road, Redwither Business Park, Wrexham, Clwyd, LL13 9UL | Textiles, Fabrics, Silk and Machinery | Industrial Products |

| ID | Location | Company                        | Address                                                                                                | Activity                                         | Category                        |
|----|----------|--------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------|
| 3  | 65m S    | Cable Services Enterprises Ltd | Bridge House, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS                         | Cable, Wire and Fibre Optics                     | Industrial Products             |
| B  | 76m E    | Esteban UK Ltd                 | Second Avenue, Redwither Business Park, Wrexham, Clwyd, LL13 9XQ                                       | Furniture                                        | Consumer Products               |
| 4  | 107m NE  | Tank                           | Clwyd, LL13                                                                                            | Tanks (Generic)                                  | Industrial Features             |
| C  | 120m SW  | Conran                         | Unit 1, Ash Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UG                            | Construction Completion Services                 | Construction Services           |
| D  | 120m NW  | Demon Tweeks                   | Unit 75, Ash Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UG                           | Vehicle Components                               | Industrial Products             |
| D  | 120m NW  | Tweeks Cycles                  | Unit 75, Ash Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UG                           | Vehicle Components                               | Industrial Products             |
| C  | 122m SW  | Aquatec                        | Unit 2, Ash Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UG                            | Paints, Varnishes and Lacquers                   | Industrial Products             |
| 6  | 129m S   | Tank                           | Clwyd, LL13                                                                                            | Tanks (Generic)                                  | Industrial Features             |
| 7  | 132m E   | Electricity Sub Station        | Clwyd, LL13                                                                                            | Electrical Features                              | Infrastructure and Facilities   |
| C  | 138m SW  | Rawson E V Power               | Unit 4 The Bridge Business Centre, Ash Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UG | Electrical Production and Manipulation Equipment | Industrial Products             |
| I  | 168m N   | Dockweiler UK Ltd              | Unit D2, Dutton Road, Redwither Business Park, Wrexham, Clwyd, LL13 9UL                                | Seals, Tapes, Taps and Valves                    | Industrial Products             |
| J  | 178m NW  | Electricity Sub Station        | Clwyd, LL13                                                                                            | Electrical Features                              | Infrastructure and Facilities   |
| K  | 179m NE  | Redwither Tower                | Redwither Business Park, Wrexham, Clwyd, LL13 9XT                                                      | Business Parks and Industrial Estates            | Industrial Features             |
| K  | 179m NE  | Smart Print & Labelling Ltd    | 3k2 Redwither Tower, Redwither Business Park, Wrexham, Clwyd, LL13 9XT                                 | Office and Shop Equipment                        | Industrial Products             |
| G  | 183m SE  | Tradebe Healthcare             | Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ                                  | Medical Waste Disposal Services                  | Health Support Services         |
| 8  | 187m N   | McCarthy Haulage               | Building 4, First Avenue, Redwither Business Park, Wrexham, Clwyd, LL13 9XP                            | Container and Storage                            | Transport, Storage and Delivery |



| ID | Location | Company                        | Address                                                                        | Activity                              | Category                      |
|----|----------|--------------------------------|--------------------------------------------------------------------------------|---------------------------------------|-------------------------------|
| 9  | 190m S   | Electricity Sub Station        | Clwyd, LL13                                                                    | Electrical Features                   | Infrastructure and Facilities |
| I  | 204m N   | Industrial Encoders Direct Ltd | Unit D1, Dutton Road, Redwither Business Park, Wrexham, Clwyd, LL13 9UL        | Measurement and Inspection Equipment  | Industrial Products           |
| J  | 204m NW  | Advanced Vehicle Servicing     | Unit 5, Ash Road South, Wrexham, Clwyd, LL13 9UG                               | Vehicle Repair, Testing and Servicing | Repair and Servicing          |
| 10 | 206m SE  | Water Clean Ltd                | Unit 1 Marlborough Business Centre, Marlborough Road, Wrexham, Clwyd, LL13 9RJ | Air and Water Filtration              | Industrial Products           |
| J  | 221m NW  | Rawson Digital                 | Unit 4, Ash Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UG    | Printing Related Machinery            | Industrial Products           |
| J  | 236m NW  | Electricity Sub Station        | Clwyd, LL13                                                                    | Electrical Features                   | Infrastructure and Facilities |
| J  | 238m NW  | Visive                         | Unit 9, Ash Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UG    | Lampshades and Lighting               | Consumer Products             |
| J  | 249m NW  | Electricity Sub Station        | Clwyd, LL13                                                                    | Electrical Features                   | Infrastructure and Facilities |

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*

## 4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*



## 4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

## 4.5 Sites determined as Contaminated Land

Records within 500m

0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

*This data is sourced from Local Authority records.*

## 4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

*This data is sourced from the Health and Safety Executive.*

## 4.7 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

*This data is sourced from the Health and Safety Executive.*

## 4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

*This data is sourced from Local Authority records.*



## 4.9 Historical licensed industrial activities (IPC)

Records within 500m

2

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

Features are displayed on the Current industrial land use map on **page 64**

| ID | Location | Details                                                                                                                                                                                              |                                                                                                                            |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| M  | 217m E   | Operator: Sterile Technologies (newcastle) Ltd<br>Address: Wrexham Plant, Marlborough Road,<br>Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Process: Incineration<br>Permit Number: BI1595 | Original Permit Number: IPCAPP<br>Date Approved: 19-9-2000<br>Effective Date: 20-9-2000<br>Status: Superseded By Variation |
| M  | 217m E   | Operator: Sterile Technologies (newcastle) Ltd<br>Address: Wrexham Plant, Marlborough Road,<br>Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ<br>Process: Incineration<br>Permit Number: BM2349 | Original Permit Number: IPCMINVAR<br>Date Approved: 19-5-2004<br>Effective Date: 19-5-2004<br>Status: Revoked - Now Ippc   |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.10 Licensed industrial activities (Part A(1))

Records within 500m

45

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 64**

| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                           |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| E  | 122m S   | Operator: LLOYDS ANIMAL FEEDS (WESTERN) LTD<br>Installation Name: WREXHAM MILL<br>Process: TREATMENT AND PROCESSING, OTHER THAN<br>EXCLUSIVELY PACKAGING, OF THE FOLLOWING RAW<br>MATERIALS, WHETHER PREVIOUSLY PROCESSED OR<br>UNPROCESSED, INTENDED FOR THE PRODUCTION OF<br>FOOD OR FEED (WHERE THE WEIGHT OF THE<br>FINISHED PRODUCT EXCLUDES PACKAGING)—ONLY<br>VEGETABLE RAW MATERIALS WITH A FINISHED<br>PRODUCT PRODUCTION CAPACITY GREATER THAN 300<br>TONNES PER DAY OR 600 TONNES PER DAY WHERE<br>THE INSTALLATION OPERATES FOR A PERIOD OF NO<br>MORE THAN 90 CONSECUTIVE DAYS IN ANY YEAR<br>Permit Number: AB3492ZQ<br>Original Permit Number: - | EPR Reference: -<br>Issue Date: 09/05/2019<br>Effective Date: 09/05/2019<br>Last date noted as effective: 01/01/2022<br>Status: EFFECTIVE |



| ID | Location | Details                                                                                                                                                                                                                                                                              |                                                                                                                                            |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| E  | 122m S   | Operator: LLOYDS ANIMAL FEEDS (WESTERN) LTD<br>Installation Name: WREXHAM MILL<br>Process: -<br>Permit Number: AB3492ZQ<br>Original Permit Number: -                                                                                                                                 | EPR Reference: -<br>Issue Date: 17/05/2017<br>Effective Date: 17/05/2017<br>Last date noted as effective: 01/04/2018<br>Status: EFFECTIVE  |
| J  | 204m NW  | Operator: OSCAR MAYER LIMITED<br>Installation Name: WREXHAM CONVENIENCE FOODS<br>EPR/WP3534GX<br>Process: ANIMAL VEGETABLE AND FOOD; TREATING<br>ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD<br>>75T/D<br>Permit Number: PP3538VJ<br>Original Permit Number: WP3534GX               | EPR Reference: -<br>Issue Date: 25/06/2014<br>Effective Date: 25/06/2014<br>Last date noted as effective: 17/11/2015<br>Status: EFFECTIVE  |
| J  | 204m NW  | Operator: OSCAR MAYER LIMITED<br>Installation Name: WREXHAM CONVENIENCE FOODS<br>EPR/WP3534GX<br>Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS<br>WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-<br>CHEMICAL TREATMENT<br>Permit Number: PP3538VJ<br>Original Permit Number: WP3534GX | EPR Reference: -<br>Issue Date: 25/06/2014<br>Effective Date: 25/06/2014<br>Last date noted as effective: 17/11/2015<br>Status: EFFECTIVE  |
| J  | 204m NW  | Operator: OSCAR MAYER LIMITED<br>Installation Name: ROWAN FOODS<br>Process: ANIMAL VEGETABLE AND FOOD; TREATING<br>ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD<br>>75T/D<br>Permit Number: WP3131ZF<br>Original Permit Number: WP3534GX                                             | EPR Reference: -<br>Issue Date: 26/03/2013<br>Effective Date: 26/03/2013<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| J  | 204m NW  | Operator: OSCAR MAYER LIMITED<br>Installation Name: ROWAN FOODS<br>Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS<br>WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-<br>CHEMICAL TREATMENT<br>Permit Number: WP3131ZF<br>Original Permit Number: WP3534GX                               | EPR Reference: -<br>Issue Date: 26/03/2013<br>Effective Date: 26/03/2013<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| J  | 204m NW  | Operator: OSCAR MAYER LIMITED<br>Installation Name: ROWAN FOODS<br>EA/EPR/WP3534GX/A001<br>Process: ANIMAL VEGETABLE AND FOOD; TREATING<br>ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD<br>>75T/D<br>Permit Number: WP3534GX<br>Original Permit Number: WP3534GX                     | EPR Reference: -<br>Issue Date: 10/09/2009<br>Effective Date: 10/09/2009<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                            |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| J  | 204m NW  | Operator: OSCAR MAYER LIMITED<br>Installation Name: ROWAN FOODS<br>EA/EPR/WP3534GX/A001<br>Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS<br>WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT<br>Permit Number: WP3534GX<br>Original Permit Number: WP3534GX                                                                                                                                                                                                                                                                                                     | EPR Reference: -<br>Issue Date: 10/09/2009<br>Effective Date: 10/09/2009<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| J  | 204m NW  | Operator: OSCAR MAYER LIMITED<br>Installation Name: ROWAN FOODS<br>Process: CREATED BY IED - DISPOSAL OF > 50 T/D<br>NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD)<br>INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Permit Number: WP3131ZF<br>Original Permit Number: WP3534GX                                                                                                                                                                                                                                                                                   | EPR Reference: -<br>Issue Date: 26/03/2013<br>Effective Date: 26/03/2013<br>Last date noted as effective: 01/07/2013<br>Status: EFFECTIVE  |
| J  | 206m NW  | Operator: OSCAR MAYER LIMITED<br>Installation Name: WREXHAM CONVENIENCE FOODS<br>Process: TREATMENT AND PROCESSING, OTHER THAN<br>EXCLUSIVELY PACKAGING, OF THE FOLLOWING RAW<br>MATERIALS, WHETHER PREVIOUSLY PROCESSED OR<br>UNPROCESSED, INTENDED FOR THE PRODUCTION OF<br>FOOD OR FEED (WHERE THE WEIGHT OF THE<br>FINISHED PRODUCT EXCLUDES PACKAGING)—ONLY<br>ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY)<br>WITH A FINISHED PRODUCT PRODUCTION CAPACITY<br>GREATER THAN 75 TONNES PER DAY<br>Permit Number: WP3534GX<br>Original Permit Number: - | EPR Reference: -<br>Issue Date: 15/11/2019<br>Effective Date: 15/11/2019<br>Last date noted as effective: 01/01/2022<br>Status: EFFECTIVE  |
| J  | 206m NW  | Operator: OSCAR MAYER LIMITED<br>Installation Name: ROWAN FOODS LIMITED<br>Process: TREATMENT AND PROCESSING, OTHER THAN<br>EXCLUSIVELY PACKAGING, OF THE FOLLOWING RAW...<br>Permit Number: WP3534GX<br>Original Permit Number: -                                                                                                                                                                                                                                                                                                                       | EPR Reference: -<br>Issue Date: 03/03/2016<br>Effective Date: 03/03/2016<br>Last date noted as effective: 01/04/2018<br>Status: EFFECTIVE  |
| J  | 206m NW  | Operator: OSCAR MAYER LIMITED<br>Installation Name: ROWAN FOODS LIMITED<br>Process: TREATMENT AND PROCESSING, OTHER THAN<br>EXCLUSIVELY PACKAGING, OF THE FOLLOWING RAW...<br>Permit Number: WP3534GX<br>Original Permit Number: -                                                                                                                                                                                                                                                                                                                       | EPR Reference: -<br>Issue Date: 03/03/2016<br>Effective Date: 03/03/2016<br>Last date noted as effective: 01/04/2018<br>Status: EFFECTIVE  |
| J  | 206m NW  | Operator: OSCAR MAYER LIMITED<br>Installation Name: ROWAN FOODS LIMITED<br>Process: -<br>Permit Number: WP3534GX<br>Original Permit Number: -                                                                                                                                                                                                                                                                                                                                                                                                            | EPR Reference: -<br>Issue Date: 03/03/2016<br>Effective Date: 03/03/2016<br>Last date noted as effective: 01/04/2017<br>Status: ISSUED     |

| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                            |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| J  | 206m NW  | Operator: OSCAR MAYER LIMITED<br>Installation Name: WREXHAM CONVENIENCE FOODS<br>Process: DISPOSAL OF NON-HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 50 TONNES PER DAY (OR 100 TONNES PER DAY IF THE ONLY WASTE TREATMENT ACTIVITY IS ANAEROBIC DIGESTION) INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES, AND EXCLUDING ACTIVITIES COVERED BY COUNCIL DIRECTIVE 91/271/EEC CONCERNING URBAN WASTE-WATER TREATMENT(4)—PHYSICO-CHEMICAL TREATMENT<br>Permit Number: WP3534GX<br>Original Permit Number: - | EPR Reference: -<br>Issue Date: 15/11/2019<br>Effective Date: 15/11/2019<br>Last date noted as effective: 01/01/2022<br>Status: EFFECTIVE  |
| M  | 234m E   | Operator: SITA UK LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT PLANT AND TRANSFER STATION<br>Process: ASSOCIATED PROCESS<br>Permit Number: UP3137FB<br>Original Permit Number: UP3137FB                                                                                                                                                                                                                                                                                                  | EPR Reference: -<br>Issue Date: 04/11/2011<br>Effective Date: 04/11/2011<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| M  | 234m E   | Operator: SITA UK LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT PLANT AND TRANSFER STATION<br>Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D<br>Permit Number: UP3137FB<br>Original Permit Number: UP3137FB                                                                                                                                                                                                                                                                        | EPR Reference: -<br>Issue Date: 04/11/2011<br>Effective Date: 04/11/2011<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| M  | 234m E   | Operator: POLKACREST LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (HDU & TS)<br>Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D<br>Permit Number: WP3636ZG<br>Original Permit Number: WP3636ZG                                                                                                                                                                                                                                                                            | EPR Reference: -<br>Issue Date: 04/03/2013<br>Effective Date: 04/03/2013<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| M  | 234m E   | Operator: POLKACREST WALES LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT PLANT AND TRANSFER STATION<br>Process: ASSOCIATED PROCESS<br>Permit Number: RP3035FV<br>Original Permit Number: RP3237SZ                                                                                                                                                                                                                                                                                         | EPR Reference: -<br>Issue Date: 27/10/2011<br>Effective Date: 27/10/2011<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| M  | 234m E   | Operator: POLKACREST WALES LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT PLANT AND TRANSFER STATION<br>Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D<br>Permit Number: RP3035FV<br>Original Permit Number: RP3237SZ                                                                                                                                                                                                                                                               | EPR Reference: -<br>Issue Date: 27/10/2011<br>Effective Date: 27/10/2011<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |



| ID | Location | Details                                                                                                                                                                                                                                                                                                          |                                                                                                                                            |
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| M  | 234m E   | Operator: POLKACREST WALES LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT PLANT AND TRANSFER STATION<br>Process: ASSOCIATED PROCESS<br>Permit Number: RP3237SZ<br>Original Permit Number: RP3237SZ                                                                                               | EPR Reference: -<br>Issue Date: 23/06/2006<br>Effective Date: 23/06/2006<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| M  | 234m E   | Operator: POLKACREST WALES LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT PLANT AND TRANSFER STATION<br>Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D<br>Permit Number: RP3237SZ<br>Original Permit Number: RP3237SZ                                                                     | EPR Reference: -<br>Issue Date: 23/06/2006<br>Effective Date: 23/06/2006<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| M  | 234m E   | Operator: SITA HEALTHCARE LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (HDU & TS)<br>Process: ASSOCIATED PROCESS<br>Permit Number: PP3230NV<br>Original Permit Number: WP3636ZG                                                                                                       | EPR Reference: -<br>Issue Date: 25/03/2013<br>Effective Date: 25/03/2013<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| M  | 234m E   | Operator: SITA HEALTHCARE LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (HDU & TS)<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Permit Number: PP3230NV<br>Original Permit Number: WP3636ZG | EPR Reference: -<br>Issue Date: 25/03/2013<br>Effective Date: 25/03/2013<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| M  | 234m E   | Operator: SITA HEALTHCARE LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE (HDU & TS) EPR/WP3636ZG<br>Process: ASSOCIATED PROCESS<br>Permit Number: UP3133AC<br>Original Permit Number: WP3636ZG                                                                                                             | EPR Reference: -<br>Issue Date: 05/06/2015<br>Effective Date: 14/01/2015<br>Last date noted as effective: 17/11/2015<br>Status: EFFECTIVE  |
| M  | 234m E   | Operator: SITA HEALTHCARE LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE (HDU & TS) EPR/WP3636ZG<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Permit Number: UP3133AC<br>Original Permit Number: WP3636ZG       | EPR Reference: -<br>Issue Date: 05/06/2015<br>Effective Date: 14/01/2015<br>Last date noted as effective: 17/11/2015<br>Status: EFFECTIVE  |

| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                           |
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| M  | 234m E   | Operator: STERILE TECHNOLOGIES (NEWCASTLE) LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT PLANT AND TRANSFER STATION<br>Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE<br>Permit Number: RP3237SZ<br>Original Permit Number: RP3237SZ                                                                                | EPR Reference: -<br>Issue Date: -<br>Effective Date: -<br>Last date noted as effective: 04/04/2006<br>Status: DETERMINATION               |
| M  | 234m E   | Operator: TRADEBE HEALTHCARE NATIONAL LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (HDU & TS)<br>Process: -<br>Permit Number: WP3636ZG<br>Original Permit Number: UP3133AC                                                                                                                                                                  | EPR Reference: -<br>Issue Date: 14/01/2015<br>Effective Date: 14/01/2015<br>Last date noted as effective: 01/12/2016<br>Status: EFFECTIVE |
| M  | 234m E   | Operator: STERILE TECHNOLOGIES (NEWCASTLE) LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT PLANT AND TRANSFER STATION<br>Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE<br>Permit Number: RP3237SZ<br>Original Permit Number: RP3237SZ                                                                                | EPR Reference: -<br>Issue Date: -<br>Effective Date: -<br>Last date noted as effective: 04/04/2006<br>Status: DETERMINATION               |
| M  | 234m E   | Operator: SITA HEALTHCARE LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (HDU & TS)<br>Process: CREATED BY IED - DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT<br>Permit Number: PP3230NV<br>Original Permit Number: WP3636ZG                                      | EPR Reference: -<br>Issue Date: 25/03/2013<br>Effective Date: 25/03/2013<br>Last date noted as effective: 01/07/2013<br>Status: EFFECTIVE |
| M  | 234m E   | Operator: TRADEBE HEALTHCARE NATIONAL LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (HDU & TS)<br>Process: -<br>Permit Number: WP3636ZG<br>Original Permit Number: UP3133AC                                                                                                                                                                  | EPR Reference: -<br>Issue Date: 28/06/2021<br>Effective Date: 28/06/2021<br>Last date noted as effective: 01/01/2022<br>Status: EFFECTIVE |
| M  | 234m E   | Operator: TRADEBE HEALTHCARE NATIONAL LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (HDU & TS)<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES - PHYSICO-CHEMICAL TREATMENT<br>Permit Number: WP3636ZG<br>Original Permit Number: UP3133AC | EPR Reference: -<br>Issue Date: 28/06/2021<br>Effective Date: 28/06/2021<br>Last date noted as effective: 01/01/2022<br>Status: EFFECTIVE |



| ID | Location | Details                                                                                                                                                                                                                                                                                 |                                                                                                                                            |
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| M  | 234m E   | Operator: TRADEBE HEALTHCARE NATIONAL LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (HDU & TS)<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER ...<br>Permit Number: WP3636ZG<br>Original Permit Number: UP3133AC | EPR Reference: -<br>Issue Date: 14/01/2015<br>Effective Date: 14/01/2015<br>Last date noted as effective: 01/04/2018<br>Status: EFFECTIVE  |
| M  | 234m E   | Operator: TRADEBE HEALTHCARE NATIONAL LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (HDU & TS)<br>Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER ...<br>Permit Number: WP3636ZG<br>Original Permit Number: UP3133AC | EPR Reference: -<br>Issue Date: 14/01/2015<br>Effective Date: 14/01/2015<br>Last date noted as effective: 01/04/2018<br>Status: EFFECTIVE  |
| N  | 238m SE  | Operator: POLKACREST LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE INCINERATOR<br>Process: INCINERATION OF HAZARDOUS WASTE<br>Permit Number: VP3739XC<br>Original Permit Number: AP3538SM                                                                                        | EPR Reference: -<br>Issue Date: 21/01/2008<br>Effective Date: 21/01/2008<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| N  | 238m SE  | Operator: POLKACREST LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (INCINERATOR)<br>Process: INCINERATION OF HAZARDOUS WASTE<br>Permit Number: WP3836ZF<br>Original Permit Number: WP3836ZF                                                                   | EPR Reference: -<br>Issue Date: 04/03/2013<br>Effective Date: 04/03/2013<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| N  | 238m SE  | Operator: POLKACREST WALES LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE INCINERATOR<br>Process: INCINERATION OF HAZARDOUS WASTE<br>Permit Number: AP3538SM<br>Original Permit Number: AP3538SM                                                                                  | EPR Reference: -<br>Issue Date: 14/12/2005<br>Effective Date: 14/12/2005<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| N  | 238m SE  | Operator: SITA UK LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE INCINERATOR<br>Process: INCINERATION OF HAZARDOUS WASTE<br>Permit Number: MP3239FQ<br>Original Permit Number: MP3239FQ                                                                                           | EPR Reference: -<br>Issue Date: 12/05/2011<br>Effective Date: 12/05/2011<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| N  | 238m SE  | Operator: SITA UK LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE INCINERATOR<br>Process: INCINERATION OF HAZARDOUS WASTE<br>Permit Number: MP3635FQ<br>Original Permit Number: MP3239FQ                                                                                           | EPR Reference: -<br>Issue Date: 20/10/2011<br>Effective Date: 20/10/2011<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                            |
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| N  | 238m SE  | Operator: SITA HEALTHCARE LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE (INCINERATOR) EPR/WP3836ZF<br>Process: INCINERATION OF HAZARDOUS WASTE<br>Permit Number: QP3933NZ<br>Original Permit Number: WP3836ZF                                                                                                                                | EPR Reference: -<br>Issue Date: 22/04/2013<br>Effective Date: 22/04/2013<br>Last date noted as effective: 17/11/2015<br>Status: EFFECTIVE  |
| N  | 238m SE  | Operator: TRADEBE HEALTHCARE NATIONAL LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (INCINERATOR)<br>Process: -<br>Permit Number: WP3836ZF<br>Original Permit Number: QP3933NZ                                                                                                                                            | EPR Reference: -<br>Issue Date: 14/01/2015<br>Effective Date: 14/01/2015<br>Last date noted as effective: 01/12/2016<br>Status: EFFECTIVE  |
| N  | 238m SE  | Operator: ATTERO SERVICES LTD<br>Installation Name: WREXHAM CLINICAL WASTE INCINERATOR<br>Process: INCINERATION OF HAZARDOUS WASTE<br>Permit Number: GP3335MA<br>Original Permit Number: AP3538SM                                                                                                                                                   | EPR Reference: -<br>Issue Date: 15/12/2006<br>Effective Date: 15/12/2006<br>Last date noted as effective: 17/11/2015<br>Status: SUPERCEDED |
| N  | 238m SE  | Operator: TRADEBE HEALTHCARE NATIONAL LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (INCINERATOR)<br>Process: THE INCINERATION OF HAZARDOUS WASTE IN A WASTE INCINERATION PLANT OR WASTE CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 10 TONNES PER DAY<br>Permit Number: WP3836ZF<br>Original Permit Number: QP3933NZ | EPR Reference: -<br>Issue Date: 28/06/2017<br>Effective Date: 26/06/2017<br>Last date noted as effective: 01/01/2022<br>Status: EFFECTIVE  |
| N  | 238m SE  | Operator: TRADEBE HEALTHCARE NATIONAL LIMITED<br>Installation Name: WREXHAM CLINICAL WASTE TREATMENT FACILITY (INCINERATOR)<br>Process: THE INCINERATION OF HAZARDOUS WASTE IN AN INCINERATION OR CO- INCINERATION PLANT...<br>Permit Number: WP3836ZF<br>Original Permit Number: QP3933NZ                                                          | EPR Reference: -<br>Issue Date: 28/06/2017<br>Effective Date: 26/06/2017<br>Last date noted as effective: 01/04/2018<br>Status: EFFECTIVE  |
| Q  | 371m E   | Operator: WASTE RECYCLING LIMITED<br>Installation Name: PHASE 2 WREXHAM RECYCLING PARK<br>Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OR NON-HAZARDOUS WASTE WITH A CAPACIT...<br>Permit Number: BB3436RA<br>Original Permit Number: 103238                                                                                                 | EPR Reference: -<br>Issue Date: 10/12/2015<br>Effective Date: 10/12/2015<br>Last date noted as effective: 01/04/2018<br>Status: EFFECTIVE  |

| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                           |
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| Q  | 371m E   | Operator: WASTE RECYCLING LIMITED<br>Installation Name: PHASE 2 WREXHAM RECYCLING PARK<br>Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF NON-HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 75 TONNES PER DAY (OR 100 TONNES PER DAY IF THE ONLY WASTE TREATMENT ACTIVITY IS ANAEROBIC DIGESTION) INVOLVING ONE OR MORE OF THE FOLLOWING ACTIVITIES, AND EXCLUDING ACTIVITIES COVERED BY COUNCIL DIRECTIVE 91/271/EEC—BIOLOGICAL TREATMENT<br>Permit Number: BB3436RA<br>Original Permit Number: 103238 | EPR Reference: -<br>Issue Date: 16/06/2021<br>Effective Date: 16/06/2021<br>Last date noted as effective: 01/01/2022<br>Status: EFFECTIVE |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.11 Licensed pollutant release (Part A(2)/B)

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| <b>Records within 500m</b> | <b>7</b> |
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Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 64**

| ID | Location | Address                                                                                                                                                                                                         | Details                                                                                                       |                                                                                                                                 |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| K  | 178m NE  | K D Products Ltd, Redwither Tower, Redwither Industrial Estate, Wrexham, LL13 9UE                                                                                                                               | Process: Timber Manufacture<br>Status: Historical Permit<br>Permit Type: Part B                               | Enforcement: Enforcement Notified<br>Date of enforcement: 18/06/2007<br>Comment: Manufacture of timber and wood based products. |
| M  | 222m E   | Polkacrest Wales Limited, Polkacrest Limited, Sterile Technologies (Newcastle) Ltd, Wrexham Clinical Waste Treatment Plant and Transfer Station, Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ | Process: Other waste disposal ; Combustion & Incineration<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcement Notified.<br>Date of enforcement: No Enforcement Notified.<br>Comment: No Enforcement Notified.     |
| 12 | 237m SW  | Tritech Precision Products Ltd, Bridge Road North, Wrexham Industrial Estate, Wrexham, LL13 9PS                                                                                                                 | Process: Other Metal Processes<br>Status: Current Permit<br>Permit Type: Part B                               | Enforcement: Enforcement Notified<br>Date of enforcement: 12/03/2007<br>Comment: Not given                                      |

| ID | Location | Address                                                                                   | Details                                                                                       |                                                                                                                                      |
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| O  | 287m SE  | R.C. Motors Wrexham Ltd,<br>Redwither Road Garage, Wrexham<br>Industrial Estate, LL13 9RD | Process: Waste Oil Burner 0.4<br>MW<br>Status: New Legislation Applies<br>Permit Type: Part B | Enforcement: No Enforcement<br>Notified.<br>Date of enforcement: No<br>Enforcement Notified.<br>Comment: No Enforcement<br>Notified. |
| S  | 407m W   | Ball Packaging Europe, Bridge Road,<br>Wrexham Industrial Estate,<br>Wrexham, LL13 9PS    | Process: Surface Cleaning<br>Status: Historical Permit<br>Permit Type: Part B                 | Enforcement: No Enforcement<br>Notified.<br>Date of enforcement: No<br>Enforcement Notified.<br>Comment: No Enforcement<br>Notified. |
| S  | 410m SW  | Ball Packaging Europe, Bridge Road,<br>Wrexham Industrial Estate,<br>Wrexham, LL13 9PS    | Process: Surface Cleaning<br>Status: Historical Permit<br>Permit Type: Part A2                | Enforcement: No Enforcement<br>Notified.<br>Date of enforcement: No<br>Enforcement Notified.<br>Comment: No Enforcement<br>Notified. |
| S  | 413m W   | Ardagh Metal Beverage, Bridge<br>Road, Wrexham Industrial Estate,<br>Wrexham, LL13 9PS    | Process: Coating Processes<br>Status: Current Permit<br>Permit Type: Part A2                  | Enforcement: No Enforcement<br>Notified.<br>Date of enforcement: No<br>Enforcement Notified.<br>Comment: No Enforcement<br>Notified. |

*This data is sourced from Local Authority records.*

## 4.12 Radioactive Substance Authorisations

### Records within 500m

4

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

Features are displayed on the Current industrial land use map on **page 64**

| ID | Location | Address                                                                                                   | Details                                                                                                                                            |                                                                                               |
|----|----------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| M  | 217m E   | Trinco Ltd, Wrexham Plant,<br>Marlborough Road, Wrexham<br>Industrial Estate, Wrexham, Clwyd,<br>LL13 9RJ | Operator: Trinco Ltd<br>Type: Disposal Of Radioactive Waste<br>(was Rsa60 Section 6).<br>Permission number: AW7886<br>Date of approval: 24/06/1997 | Effective from: 24/07/1997<br>Last date of update:<br>01/01/2015<br>Status: Revoked/cancelled |



| ID | Location | Address                                                                                                                               | Details                                                                                                                                                                              |                                                                                                  |
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| M  | 217m E   | Onyx Clinical Ltd, Wrexham Plant, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ                               | Operator: Onyx Clinical Ltd<br>Type: Disposal Of Radioactive Waste (was Rsa60 Section 6).<br>Permission number: BG6251<br>Date of approval: 15/12/1999                               | Effective from: 17/12/1999<br>Last date of update: 01/01/2015<br>Status: Revoked/cancelled       |
| M  | 217m E   | Eurocare Environmental Services Ltd (dissolved), Wrexham Plant, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ | Operator: Eurocare Environmental Services Ltd (dissolved)<br>Type: Disposal Of Radioactive Waste (was Rsa60 Section 6).<br>Permission number: BI3024<br>Date of approval: 21/06/2000 | Effective from: 19/07/2000<br>Last date of update: 01/01/2015<br>Status: Superseded By Variation |
| M  | 217m E   | Eurocare Environmental Services Ltd (dissolved), Wrexham Plant, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ | Operator: Eurocare Environmental Services Ltd (dissolved)<br>Type: Disposal Of Radioactive Waste (was Rsa60 Section 6).<br>Permission number: BI3024<br>Date of approval: 25/11/2003 | Effective from: 25/11/2003<br>Last date of update: 01/01/2015<br>Status: Revoked/cancelled       |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.13 Licensed Discharges to controlled waters

Records within 500m

18

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 64**

| ID | Location | Address                        | Details                                                                                                                                      |                                                                                                                             |
|----|----------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| A  | 26m W    | WREXHAM IND.EST.DIS.8.         | Effluent Type: UNSPECIFIED<br>Permit Number: CM0093607<br>Permit Version: 1<br>Receiving Water: REDWITHER BROOK                              | Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 25/08/1982<br>Effective Date: 25/08/1982<br>Revocation Date: 28/04/1993 |
| A  | 56m W    | WREXHAM IND. ESTATE - DISCHARG | Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER<br>Permit Number: CM0093606<br>Permit Version: 1<br>Receiving Water: REDWITHER BROOK | Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 25/08/1982<br>Effective Date: 25/08/1982<br>Revocation Date: 28/04/1993 |
| A  | 95m W    | WREXHAM IND.EST.DIS.6          | Effluent Type: UNSPECIFIED<br>Permit Number: CM0093605<br>Permit Version: 1<br>Receiving Water: REDWITHER BROOK                              | Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 25/08/1982<br>Effective Date: 25/08/1982<br>Revocation Date: 28/04/1993 |



| ID | Location | Address                                                                                                            | Details                                                                                                                                                                             |                                                                                                                             |
|----|----------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| A  | 108m W   | WREXHAM IND. ESTATE - DISCHARG                                                                                     | Effluent Type: UNSPECIFIED<br>Permit Number: CM0093604<br>Permit Version: 1<br>Receiving Water: REDWITHER BROOK                                                                     | Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 25/08/1982<br>Effective Date: 25/08/1982<br>Revocation Date: 28/04/1993 |
| C  | 142m SW  | PCB CONTAINMENT CELL MARLBOROUGH RO, Marlborough Road, Wrexham Industrial Estate, Wrexham                          | Effluent Type: TRADE DISCHARGES - UNSPECIFIED<br>Permit Number: CM0149901<br>Permit Version: 3<br>Receiving Water: REDWITHER BROOK                                                  | Status: Effective<br>Issue date: 23/08/2005<br>Effective Date: 24/08/2005<br>Revocation Date: -                             |
| F  | 154m E   | STP SERVING UNIT 6 PACIFIC PARK, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PN                  | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: MP3320GG<br>Permit Version: 1<br>Receiving Water: Groundwater via drainage mound    | Status: Effective<br>Issue date: 02/12/2011<br>Effective Date: 02/12/2011<br>Revocation Date: -                             |
| F  | 154m E   | STP SERVING UNIT 6 PACIFIC PARK, BRIDGE ROAD, WREXHAM INDUSTRIAL ESTATE, WREXHAM, CLWYD, LL13 9PN                  | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: EPRMP3320GG<br>Permit Version: 1<br>Receiving Water: GROUNDWATER VIA DRAINAGE MOUND | Status: NEW ISSUED UNDER EPR 2010<br>Issue date: 02/12/2011<br>Effective Date: 02/12/2011<br>Revocation Date: -             |
| F  | 154m E   | STP SERVING UNIT 6 PACIFIC PARK, BRIDGE ROAD, WREXHAM INDUSTRIAL ESTATE, WREXHAM, CLWYD, LL13 9PN                  | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: EPRMP3320GG<br>Permit Version: 1<br>Receiving Water: GROUNDWATER VIA DRAINAGE MOUND | Status: NEW ISSUED UNDER EPR 2010<br>Issue date: 02/12/2011<br>Effective Date: 02/12/2011<br>Revocation Date: -             |
| G  | 160m SE  | MARCHWIEL ABBEY RD 33KV SUB-STATION, MARCHWIEL ABBEY RD 33KV SUB-STAT, ABBEY RD 33KV SUB-STATION, 33KV SUB-STATION | Effluent Type: -<br>Permit Number: CM0015701<br>Permit Version: 1<br>Receiving Water: UN-NAMED TRIB.OF REDWITHER BRO                                                                | Status: Effective<br>Issue date: 16/04/1963<br>Effective Date: 16/04/1963<br>Revocation Date: -                             |
| H  | 160m W   | WREXHAM IND. ESTATE - DISCHARG                                                                                     | Effluent Type: UNSPECIFIED<br>Permit Number: CM0093603<br>Permit Version: 1<br>Receiving Water: REDWITHER BROOK                                                                     | Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 25/08/1982<br>Effective Date: 25/08/1982<br>Revocation Date: 28/04/1993 |



| ID | Location | Address                                                                                          | Details                                                                                                                              |                                                                                                                                                  |
|----|----------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| H  | 198m W   | WREXHAM IND. ESTATE - DISCHARG                                                                   | Effluent Type: UNSPECIFIED<br>Permit Number: CM0093601<br>Permit Version: 1<br>Receiving Water: REDWITHER BROOK                      | Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 25/08/1982<br>Effective Date: 25/08/1982<br>Revocation Date: 28/04/1993                      |
| H  | 199m W   | WREXHAM IND. EST. DIS. 2                                                                         | Effluent Type: UNSPECIFIED<br>Permit Number: CM0093602<br>Permit Version: 1<br>Receiving Water: REDWITHER BROOK                      | Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 25/08/1982<br>Effective Date: 25/08/1982<br>Revocation Date: 28/04/1993                      |
| 11 | 226m SW  | PCB CONTAINMENT CELL MARLBOROUGH RO, MARLBOROUGH ROAD, WREXHAM INDUSTRIAL ESTATE, WREXHAM        | Effluent Type: TRADE DISCHARGES - UNSPECIFIED<br>Permit Number: CM0149901<br>Permit Version: 1<br>Receiving Water: REDWITHER BROOK   | Status: REVOKED - UNSPECIFIED<br>Issue date: 13/01/1987<br>Effective Date: 13/01/1987<br>Revocation Date: 27/03/1995                             |
| 13 | 297m SW  | WREXHAM IND ESTATE BRITISH CELANESE, WREXHAM IND ESTATE BRITISH CELAN, BRITISH CELANESE SITE     | Effluent Type: UNSPECIFIED<br>Permit Number: CM0001801<br>Permit Version: 1<br>Receiving Water: TRIB. OF REDWITHER BROOK             | Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 31/01/1966<br>Effective Date: 31/01/1966<br>Revocation Date: 26/02/1993                      |
| 14 | 381m SW  | WREXHAM IND ESTATE CONREN LTD, CONREN LTD                                                        | Effluent Type: UNSPECIFIED<br>Permit Number: CM0086201<br>Permit Version: 1<br>Receiving Water: TRIB. OF REDWITHER BROOK             | Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 04/10/1979<br>Effective Date: 04/10/1979<br>Revocation Date: 26/04/1995                      |
| U  | 450m SW  | CONTINENTAL CAN CO LTD                                                                           | Effluent Type: TRADE DISCHARGES - UNSPECIFIED<br>Permit Number: CM0085401<br>Permit Version: 1<br>Receiving Water: REDWITHER BROOK   | Status: REVOKED - UNSPECIFIED<br>Issue date: 30/04/1979<br>Effective Date: 30/04/1979<br>Revocation Date: 08/03/1994                             |
| U  | 450m SW  | CONTINENTAL CAN CO LTD                                                                           | Effluent Type: TRADE DISCHARGES - UNSPECIFIED<br>Permit Number: CM0085401<br>Permit Version: 2<br>Receiving Water: REDWITHER BROOK   | Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV<br>Issue date: 09/03/1994<br>Effective Date: 09/03/1994<br>Revocation Date: 21/01/2004 |
| 18 | 493m E   | CPL PETROLEUM BRYN LANE WREXHAM, CPL PETROLEUM, Bryn Lane, WREXHAM IND ESTATE, Wrexham, LL13 9UT | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: CG0382501<br>Permit Version: 1<br>Receiving Water: IS Y COED BROOK | Status: Effective<br>Issue date: 01/07/1999<br>Effective Date: 01/07/1999<br>Revocation Date: -                                                  |

*This data is sourced from the Environment Agency and Natural Resources Wales.*



#### 4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.16 List 1 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.17 List 2 Dangerous Substances

Records within 500m

2

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 64**

| ID | Location | Name                                                     | Status     | Receiving Water | Authorised Substances |
|----|----------|----------------------------------------------------------|------------|-----------------|-----------------------|
| L  | 180m SW  | Welsh Development Agency Pcb Cell 283                    | Active     | -               | Biphenyl              |
| T  | 465m S   | Bluestone Chemicals Ltd, Redwither Road, Wrexham Ind Est | Not Active | -               | Chromium, Copper      |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.18 Pollution Incidents (EA/NRW)

### Records within 500m

52

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 64**

| ID | Location | Details                                                                                                                                                                        |                                                                                                                   |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| B  | 75m E    | Incident Date: 08/05/2013<br>Incident Identification: 1110907<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke                                 | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                      |
| D  | 119m NW  | Incident Date: 04/10/2003<br>Incident Identification: 194336<br>Pollutant: Inorganic Chemicals/Products<br>Pollutant Description: Acids                                        | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| 5  | 125m W   | Incident Date: 08/12/2015<br>Incident Identification: 1393353<br>Pollutant: Multiple Pollutants<br>Pollutant Description: 2 Pollutants Including Suspended Solids              | Water Impact: -<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact)                          |
| E  | 135m S   | Incident Date: 16/02/2016<br>Incident Identification: 1411660<br>Pollutant: Oils and Fuel<br>Pollutant Description: Diesel                                                     | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                      |
| G  | 173m SE  | Incident Date: 14/06/2016<br>Incident Identification: 1603273<br>Pollutant: -<br>Pollutant Description: -                                                                      | Water Impact: No Details<br>Land Impact: No Details<br>Air Impact: Category 4 (No Impact)                         |
| G  | 173m SE  | Incident Date: 14/06/2016<br>Incident Identification: 1603273<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Other Atmospheric Pollutant or Effect | Water Impact: No Details<br>Land Impact: No Details<br>Air Impact: Category 4 (No Impact)                         |
| L  | 214m SW  | Incident Date: 02/01/2008<br>Incident Identification: 553362<br>Pollutant: Sewage Materials<br>Pollutant Description: Process Effluent                                         | Water Impact: Category 2 (Significant)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 3 (Minor)       |
| M  | 219m E   | Incident Date: 29/02/2016<br>Incident Identification: 1415189<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke                                 | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                      |



| ID | Location | Details                                                                                                                                                                        |                                                                                                                 |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| M  | 220m E   | Incident Date: 04/08/2016<br>Incident Identification: 1604414<br>Pollutant: -<br>Pollutant Description: -                                                                      | Water Impact: No Details<br>Land Impact: No Details<br>Air Impact: Category 4 (No Impact)                       |
| M  | 220m E   | Incident Date: 04/08/2016<br>Incident Identification: 1604414<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Other Atmospheric Pollutant or Effect | Water Impact: No Details<br>Land Impact: No Details<br>Air Impact: Category 4 (No Impact)                       |
| M  | 222m E   | Incident Date: 27/03/2015<br>Incident Identification: 1323952<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke                                 | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                    |
| M  | 222m E   | Incident Date: 02/05/2013<br>Incident Identification: 1108584<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke                                 | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                    |
| M  | 229m E   | Incident Date: 26/08/2015<br>Incident Identification: 1368254<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Other Atmospheric Pollutant or Effect | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                    |
| J  | 258m NW  | Incident Date: 19/10/2015<br>Incident Identification: 1381826<br>Pollutant: Organic Chemicals/Products<br>Pollutant Description: Paints and Varnishes                          | Water Impact: -<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact)                        |
| O  | 322m SE  | Incident Date: 14/07/2002<br>Incident Identification: 91450<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke                                   | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 2 (Significant) |
| P  | 350m S   | Incident Date: 26/06/2009<br>Incident Identification: 691429<br>Pollutant: Contaminated Water<br>Pollutant Description: Vegetable Washings                                     | Water Impact: Category 2 (Significant)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |
| P  | 364m SW  | Incident Date: 04/08/2016<br>Incident Identification: 1604395<br>Pollutant: -<br>Pollutant Description: -                                                                      | Water Impact: Category 3 (Minor)<br>Land Impact: No Details<br>Air Impact: No Details                           |
| P  | 364m SW  | Incident Date: 04/08/2016<br>Incident Identification: 1604395<br>Pollutant: Oils and Fuels<br>Pollutant Description: Unidentified Oil                                          | Water Impact: Category 3 (Minor)<br>Land Impact: No Details<br>Air Impact: No Details                           |

| ID | Location | Details                                                                                                                                                        |                                                                                                               |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| P  | 365m SW  | Incident Date: 20/02/2015<br>Incident Identification: 1315409<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Other Inert Material or Waste | Water Impact: -<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact)                      |
| P  | 380m S   | Incident Date: 03/08/2016<br>Incident Identification: 1604640<br>Pollutant: -<br>Pollutant Description: -                                                      | Water Impact: Category 3 (Minor)<br>Land Impact: No Details<br>Air Impact: No Details                         |
| P  | 380m S   | Incident Date: 03/08/2016<br>Incident Identification: 1604640<br>Pollutant: Oils and Fuels<br>Pollutant Description: Unidentified Oil                          | Water Impact: Category 3 (Minor)<br>Land Impact: No Details<br>Air Impact: No Details                         |
| P  | 381m SW  | Incident Date: 23/01/2017<br>Incident Identification: 1700388<br>Pollutant: -<br>Pollutant Description: -                                                      | Water Impact: Category 3 (Minor)<br>Land Impact: Other<br>Air Impact: Other                                   |
| P  | 381m SW  | Incident Date: 23/01/2017<br>Incident Identification: 1700388<br>Pollutant: Pollutant Not Identified<br>Pollutant Description: Pollutant Not Identified        | Water Impact: Category 3 (Minor)<br>Land Impact: Other<br>Air Impact: Other                                   |
| P  | 384m SW  | Incident Date: 22/11/2016<br>Incident Identification: 1606987<br>Pollutant: -<br>Pollutant Description: -                                                      | Water Impact: Category 3 (Minor)<br>Land Impact: No Details<br>Air Impact: No Details                         |
| P  | 384m SW  | Incident Date: 22/11/2016<br>Incident Identification: 1606987<br>Pollutant: Oils and Fuels<br>Pollutant Description: Unidentified Oil                          | Water Impact: Category 3 (Minor)<br>Land Impact: No Details<br>Air Impact: No Details                         |
| P  | 389m SW  | Incident Date: 20/04/2002<br>Incident Identification: 73352<br>Pollutant: Oils and Fuel<br>Pollutant Description: Diesel                                       | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| R  | 396m S   | Incident Date: 26/09/2014<br>Incident Identification: 1281386<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke                 | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)                      |
| 15 | 398m SW  | Incident Date: 15/05/2013<br>Incident Identification: 1113038<br>Pollutant: Sewage Materials<br>Pollutant Description: Crude Sewage                            | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                  |

| ID | Location | Details                                                                                                                                        |                                                                                                                   |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| R  | 401m S   | Incident Date: 05/05/2016<br>Incident Identification: 1602189<br>Pollutant: -<br>Pollutant Description: -                                      | Water Impact: No Details<br>Land Impact: No Details<br>Air Impact: Category 3 (Minor)                             |
| R  | 401m S   | Incident Date: 05/05/2016<br>Incident Identification: 1602189<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Dust  | Water Impact: No Details<br>Land Impact: No Details<br>Air Impact: Category 3 (Minor)                             |
| R  | 406m S   | Incident Date: 22/04/2014<br>Incident Identification: 1229280<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)                          |
| S  | 408m W   | Incident Date: 15/07/2001<br>Incident Identification: 16543<br>Pollutant: Inorganic Chemicals/Products<br>Pollutant Description: Acids         | Water Impact: Category 2 (Significant)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact)   |
| 16 | 410m NE  | Incident Date: 13/09/2013<br>Incident Identification: 1158986<br>Pollutant: Oils and Fuel<br>Pollutant Description: Mixed/Waste Oils           | Water Impact: -<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact)                          |
| T  | 433m S   | Incident Date: 19/07/2006<br>Incident Identification: 418682<br>Pollutant: Contaminated Water<br>Pollutant Description: Firefighting Run-Off   | Water Impact: Category 1 (Major)<br>Land Impact: Category 2 (Significant)<br>Air Impact: Category 2 (Significant) |
| T  | 433m S   | Incident Date: 19/07/2006<br>Incident Identification: 418682<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke  | Water Impact: Category 1 (Major)<br>Land Impact: Category 2 (Significant)<br>Air Impact: Category 2 (Significant) |
| 17 | 441m SW  | Incident Date: 17/07/2003<br>Incident Identification: 174571<br>Pollutant: Sewage Materials<br>Pollutant Description: Crude Sewage             | Water Impact: Category 3 (Minor)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 3 (Minor)             |
| T  | 462m S   | Incident Date: 03/12/2014<br>Incident Identification: 1298971<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Dust  | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                      |
| T  | 463m S   | Incident Date: 25/03/2015<br>Incident Identification: 1323247<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Dust  | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)                          |

| ID | Location | Details                                                                                                                                                        |                                                                                                                 |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| T  | 464m S   | Incident Date: 29/09/2014<br>Incident Identification: 1282155<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Dust                  | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)                        |
| T  | 465m S   | Incident Date: 19/05/2014<br>Incident Identification: 1236658<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Dust                  | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)                        |
| T  | 465m S   | Incident Date: 22/09/2014<br>Incident Identification: 1279895<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Dust                  | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                    |
| T  | 465m S   | Incident Date: 16/09/2014<br>Incident Identification: 1278265<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Dust                  | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                    |
| T  | 469m S   | Incident Date: 04/06/2015<br>Incident Identification: 1342283<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Other Inert Material or Waste | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)                        |
| T  | 469m S   | Incident Date: 17/04/2015<br>Incident Identification: 1329614<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Other Specific Waste Material   | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)                        |
| T  | 471m S   | Incident Date: 23/10/2014<br>Incident Identification: 1288936<br>Pollutant: Multiple Pollutants<br>Pollutant Description: 2 Pollutants Including Other Odour   | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)                        |
| T  | 479m S   | Incident Date: 19/12/2013<br>Incident Identification: 1184723<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Commercial Waste                | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)                        |
| T  | 490m S   | Incident Date: 25/05/2007<br>Incident Identification: 497621<br>Pollutant: Contaminated Water<br>Pollutant Description: Firefighting Run-Off                   | Water Impact: Category 2 (Significant)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |
| T  | 491m S   | Incident Date: 23/05/2020<br>Incident Identification: 2003572<br>Pollutant: Contaminated Water<br>Pollutant Description: Firefighting Run                      | Water Impact: Category 2 (Significant)<br>Land Impact: No Details<br>Air Impact: Category 2 (Significant)       |

| ID | Location | Details                                                                                                                                        |                                                                                              |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| T  | 493m S   | Incident Date: 06/06/2014<br>Incident Identification: 1242731<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Dust  | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| T  | 493m S   | Incident Date: 01/08/2013<br>Incident Identification: 1142191<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Dust  | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| T  | 496m S   | Incident Date: 04/09/2014<br>Incident Identification: 1274310<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Dust  | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| T  | 496m S   | Incident Date: 08/12/2014<br>Incident Identification: 1299978<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Steam | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.19 Pollution inventory substances

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

#### 4.20 Pollution inventory waste transfers

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*



## 4.21 Pollution inventory radioactive waste

Records within 500m

0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*



## 5 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
  - Secondary A
  - Secondary B
  - Secondary Undifferentiated
  - Unproductive
  - Unknown

### 5.1 Superficial aquifer

Records within 500m

3

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 89**

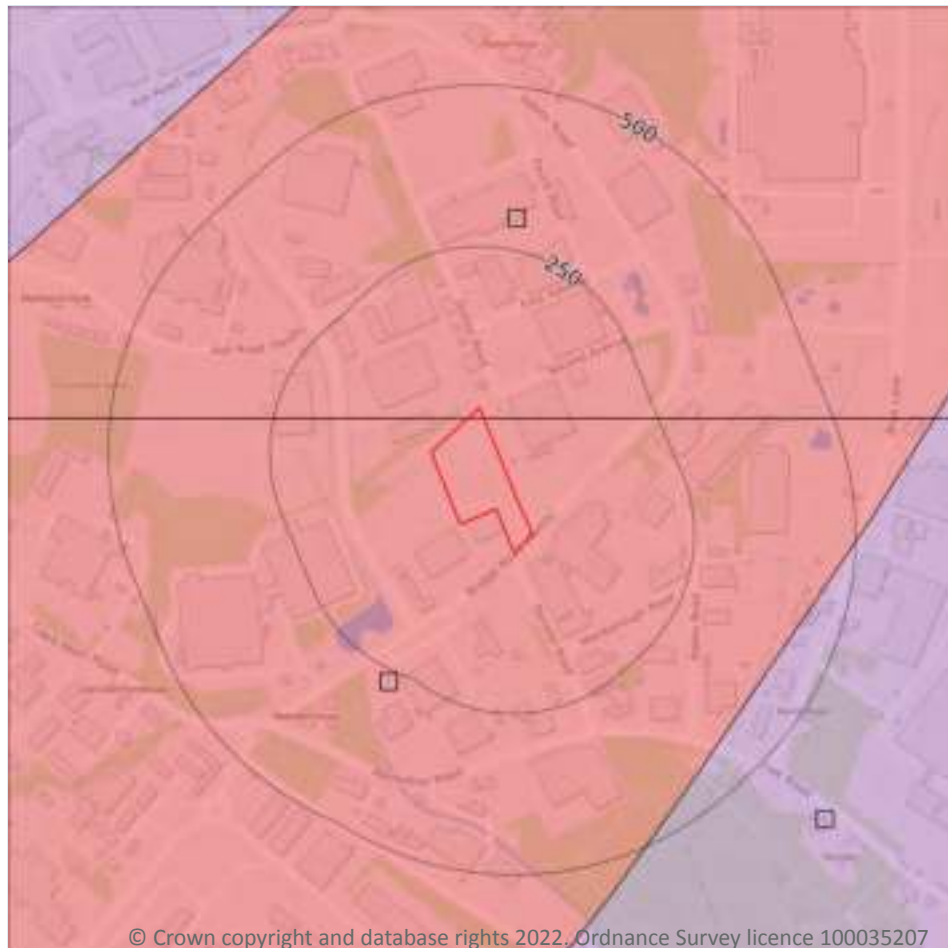
| ID | Location | Designation                | Description                                                                                                                                                                                                                                             |
|----|----------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 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 |
| 2  | 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 |

| ID | Location | Designation | Description                                                                                                                                                                                                                            |
|----|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3  | 143m 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 |

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*



## Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
  - Secondary A
  - Secondary B
  - Secondary Undifferentiated
  - Unproductive

### 5.2 Bedrock aquifer

Records within 500m

3

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 91**

| ID | Location | Designation | Description                                                                                                                                                                                                                            |
|----|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 2  | 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 |

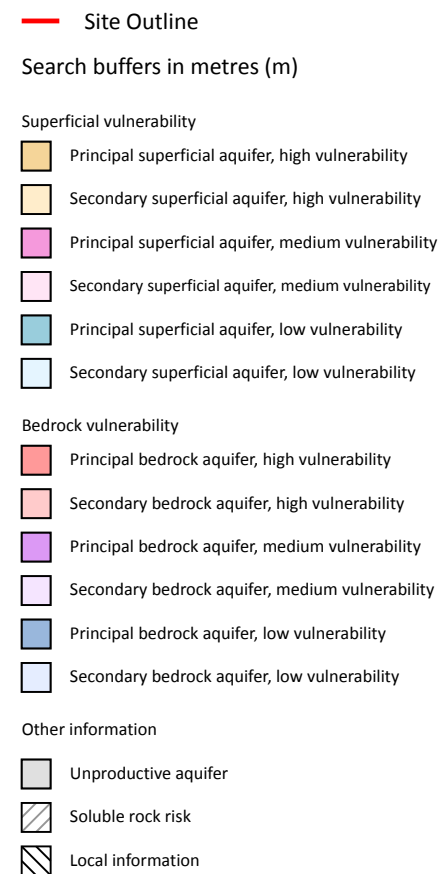


| ID | Location | Designation | Description                                                                                                                                                                                                                                |
|----|----------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3  | 419m SE  | 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 |

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*



## Groundwater vulnerability



### 5.3 Groundwater vulnerability

Records within 50m

2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 93**

| ID | Location | Summary                                                                                                                                                                                       | Soil / surface                                                                                                | Superficial geology                                                                                                                                      | Bedrock geology                                                                                                      |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | <b>Summary Classification:</b><br>Secondary superficial aquifer<br>- Low Vulnerability<br><b>Combined classification:</b><br>Productive Bedrock Aquifer,<br>Productive Superficial<br>Aquifer | <b>Leaching class:</b> Low<br><b>Infiltration value:</b><br><40%<br><b>Dilution value:</b> 300-<br>550mm/year | <b>Vulnerability:</b> Low<br><b>Aquifer type:</b> Secondary<br><b>Thickness:</b> >10m<br><b>Patchiness value:</b> >90%<br><b>Recharge potential:</b> Low | <b>Vulnerability:</b> Low<br><b>Aquifer type:</b><br>Secondary<br><b>Flow mechanism:</b> Well<br>connected fractures |
| 2  | On site  | <b>Summary Classification:</b><br>Secondary superficial aquifer<br>- Low Vulnerability<br><b>Combined classification:</b><br>Productive Bedrock Aquifer,<br>Productive Superficial<br>Aquifer | <b>Leaching class:</b> Low<br><b>Infiltration value:</b><br><40%<br><b>Dilution value:</b> 300-<br>550mm/year | <b>Vulnerability:</b> Low<br><b>Aquifer type:</b> Secondary<br><b>Thickness:</b> >10m<br><b>Patchiness value:</b> >90%<br><b>Recharge potential:</b> Low | <b>Vulnerability:</b> Low<br><b>Aquifer type:</b><br>Secondary<br><b>Flow mechanism:</b> Well<br>connected fractures |

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*

## 5.4 Groundwater vulnerability- soluble rock risk

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>0</b> |
|------------------------|----------|

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

*This data is sourced from the British Geological Survey and the Environment Agency.*

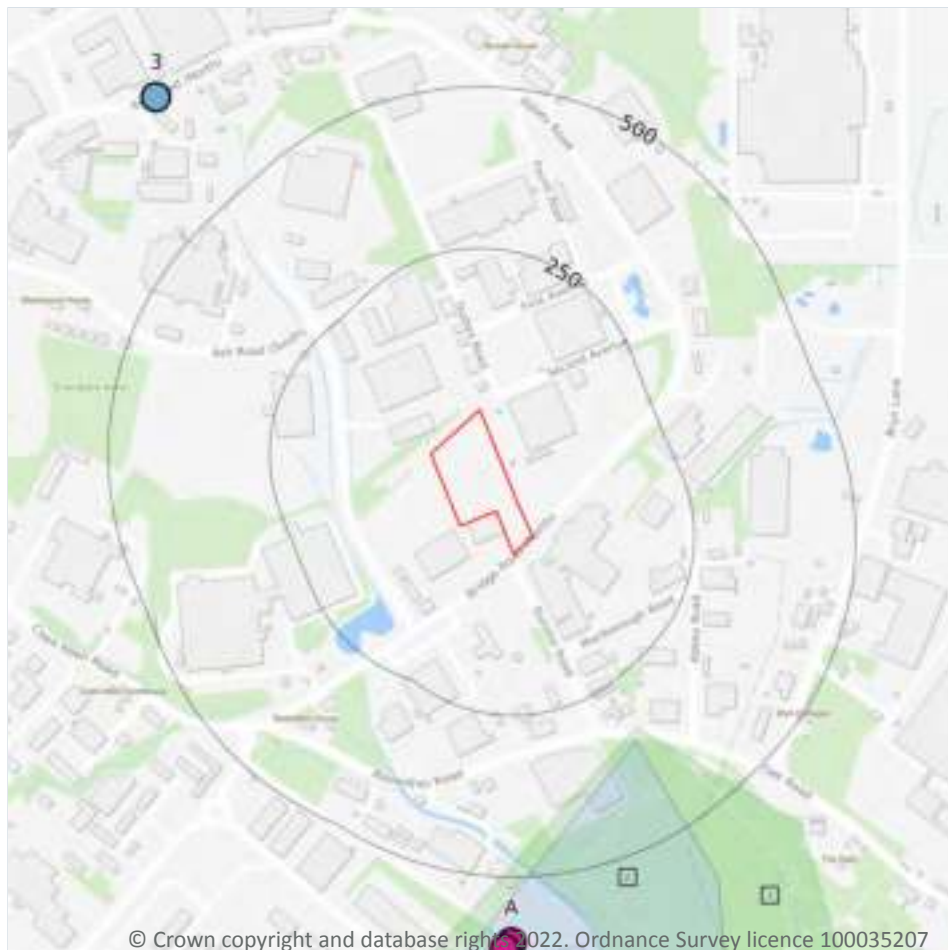
## 5.5 Groundwater vulnerability- local information

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>0</b> |
|------------------------|----------|

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk).

*This data is sourced from the British Geological Survey and the Environment Agency.*

## Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1  
Inner catchment
- Source Protection Zone 2  
Outer catchment
- Source Protection Zone 3  
Total catchment
- Source Protection Zone 4  
Zone of Special Interest
- Source Protection Zone 1c  
Inner catchment - confined aquifer
- Source Protection Zone 2c  
Outer catchment - confined aquifer
- Source Protection Zone 3c  
Total catchment - confined aquifer
- Drinking water abstraction licences  
Polygon features
- Drinking water abstraction licences  
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

### 5.6 Groundwater abstractions

Records within 2000m

11

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 95**

| ID | Location | Details                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                        |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 602m S   | Status: Historical<br>Licence No: 24/67/7/0213<br>Details: Process water<br>Direct Source: EAW Groundwater<br>Point: 144 M DEEP, 200MM DIA BH AW2<br>Data Type: Point<br>Name: Calypso Soft Drinks Ltd<br>Easting: 338360<br>Northing: 349190           | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 10/09/1998<br>Expiry Date: 10/09/2001<br>Issue No: 100<br>Version Start Date: 10/09/1998<br>Version End Date: -      |
| A  | 602m S   | Status: Historical<br>Licence No: 24/67/7/0222<br>Details: Process Water<br>Direct Source: EAW Groundwater<br>Point: 144 M DEEP, 200MM DIA BH AW2<br>Data Type: Point<br>Name: Calypso Soft Drinks Ltd<br>Easting: 338360<br>Northing: 349190           | Annual Volume (m <sup>3</sup> ): 131400<br>Max Daily Volume (m <sup>3</sup> ): 600<br>Original Application No: -<br>Original Start Date: 10/09/2001<br>Expiry Date: 31/03/2012<br>Issue No: 1<br>Version Start Date: 10/09/2001<br>Version End Date: - |
| A  | 612m S   | Status: Historical<br>Licence No: WA/067/0007/006<br>Details: Process Water<br>Direct Source: EAW Groundwater<br>Point: SPECTRUM BUSINESS PARK BOREHOLE AW2<br>Data Type: Point<br>Name: Calypso Soft Drinks Ltd<br>Easting: 338350<br>Northing: 349180 | Annual Volume (m <sup>3</sup> ): 131400<br>Max Daily Volume (m <sup>3</sup> ): 600<br>Original Application No: -<br>Original Start Date: 01/04/2012<br>Expiry Date: 31/03/2022<br>Issue No: 1<br>Version Start Date: 01/04/2012<br>Version End Date: - |
| -  | 713m S   | Status: Historical<br>Licence No: 24/67/7/0213<br>Details: Process water<br>Direct Source: EAW Groundwater<br>Point: 144M DEEP, 150MM DIA., OB1<br>Data Type: Point<br>Name: Calypso Soft Drinks Ltd<br>Easting: 338240<br>Northing: 349090             | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 10/09/1998<br>Expiry Date: 10/09/2001<br>Issue No: 100<br>Version Start Date: 10/09/1998<br>Version End Date: -      |
| -  | 713m S   | Status: Historical<br>Licence No: 24/67/7/0222<br>Details: Process Water<br>Direct Source: EAW Groundwater<br>Point: 144M DEEP, 150MM DIA., OB1<br>Data Type: Point<br>Name: Calypso Soft Drinks Ltd<br>Easting: 338240<br>Northing: 349090             | Annual Volume (m <sup>3</sup> ): 131400<br>Max Daily Volume (m <sup>3</sup> ): 600<br>Original Application No: -<br>Original Start Date: 10/09/2001<br>Expiry Date: 31/03/2012<br>Issue No: 1<br>Version Start Date: 10/09/2001<br>Version End Date: - |



| ID | Location | Details                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                 |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 713m S   | Status: Historical<br>Licence No: WA/067/0007/006<br>Details: Process Water<br>Direct Source: EAW Groundwater<br>Point: 144M DEEP, 150MM DIA., OB1<br>Data Type: Point<br>Name: Calypso Soft Drinks Ltd<br>Easting: 338240<br>Northing: 349090         | Annual Volume (m <sup>3</sup> ): 131400<br>Max Daily Volume (m <sup>3</sup> ): 600<br>Original Application No: -<br>Original Start Date: 01/04/2012<br>Expiry Date: 31/03/2022<br>Issue No: 1<br>Version Start Date: 01/04/2012<br>Version End Date: -          |
| -  | 869m S   | Status: Historical<br>Licence No: 24/67/7/0213<br>Details: Process water<br>Direct Source: EAW Groundwater<br>Point: 144M DEEP, 150MM DIA. BOREHOLE AW1<br>Data Type: Point<br>Name: Calypso Soft Drinks Ltd<br>Easting: 338190<br>Northing: 348940    | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 10/09/1998<br>Expiry Date: 10/09/2001<br>Issue No: 100<br>Version Start Date: 10/09/1998<br>Version End Date: -               |
| -  | 869m S   | Status: Historical<br>Licence No: 24/67/7/0222<br>Details: Process Water<br>Direct Source: EAW Groundwater<br>Point: 144M DEEP, 150MM DIA. BOREHOLE AW1<br>Data Type: Point<br>Name: Calypso Soft Drinks Ltd<br>Easting: 338190<br>Northing: 348940    | Annual Volume (m <sup>3</sup> ): 131400<br>Max Daily Volume (m <sup>3</sup> ): 600<br>Original Application No: -<br>Original Start Date: 10/09/2001<br>Expiry Date: 31/03/2012<br>Issue No: 1<br>Version Start Date: 10/09/2001<br>Version End Date: -          |
| -  | 869m S   | Status: Historical<br>Licence No: WA/067/0007/006<br>Details: Process Water<br>Direct Source: EAW Groundwater<br>Point: 144M DEEP, 150MM DIA. BOREHOLE AW1<br>Data Type: Point<br>Name: Calypso Soft Drinks Ltd<br>Easting: 338190<br>Northing: 348940 | Annual Volume (m <sup>3</sup> ): 131400<br>Max Daily Volume (m <sup>3</sup> ): 600<br>Original Application No: -<br>Original Start Date: 01/04/2012<br>Expiry Date: 31/03/2022<br>Issue No: 1<br>Version Start Date: 01/04/2012<br>Version End Date: -          |
| -  | 869m S   | Status: Active<br>Licence No: WA/067/0007/006<br>Details: Process Water - Medium<br>Direct Source: Underground strata<br>Point: -<br>Data Type: Point<br>Name: -<br>Easting: 338190<br>Northing: 348940                                                | Annual Volume (m <sup>3</sup> ): 131,400<br>Max Daily Volume (m <sup>3</sup> ): 600<br>Original Application No: -<br>Original Start Date: Oct 2 2016 12:00AM<br>Expiry Date: Mar 30 2027 12:00AM<br>Issue No: -<br>Version Start Date: -<br>Version End Date: - |



| ID | Location | Details                                                                                                                                                                                                           |                                                                                                                                                                                                                                          |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1258m N  | Status: Historical<br>Licence No: 24/67/9/0130<br>Details: General Farming & Domestic<br>Direct Source: EAW Groundwater<br>Point: WELL<br>Data Type: Point<br>Name: Taylor<br>Easting: 337980<br>Northing: 351230 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 14/06/1968<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 14/06/1968<br>Version End Date: - |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.7 Surface water abstractions

|                             |          |
|-----------------------------|----------|
| <b>Records within 2000m</b> | <b>1</b> |
|-----------------------------|----------|

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 95**

| ID | Location | Details                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                     |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3  | 695m NW  | Status: Historical<br>Licence No: 24/67/7/0178<br>Details: Non-Evaporative Cooling<br>Direct Source: EAW Surface Water<br>Point: TRIBUTARY OF REDWITHER BROOK<br>Data Type: Point<br>Name: Caparo Wire Ltd<br>Easting: 337810<br>Northing: 350500 | Annual Volume (m <sup>3</sup> ): 9955.74<br>Max Daily Volume (m <sup>3</sup> ): 27.276<br>Original Application No: -<br>Original Start Date: 12/05/1972<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2007<br>Version End Date: - |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.8 Potable abstractions

|                             |          |
|-----------------------------|----------|
| <b>Records within 2000m</b> | <b>0</b> |
|-----------------------------|----------|

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.9 Source Protection Zones

**Records within 500m****2**

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 95**

| ID | Location | Type | Description     |
|----|----------|------|-----------------|
| 1  | 328m SE  | 3    | Total catchment |
| 2  | 346m SE  | 2    | Outer catchment |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.10 Source Protection Zones (confined aquifer)

**Records within 500m****0**

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

### 6.1 Water Network (OS MasterMap)

Records within 250m

13

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 100**

| ID | Location | Type of water feature                               | Ground level      | Permanence                                                      | Name |
|----|----------|-----------------------------------------------------|-------------------|-----------------------------------------------------------------|------|
| A  | 123m W   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |

| ID | Location | Type of water feature                               | Ground level      | Permanence                                                      | Name |
|----|----------|-----------------------------------------------------|-------------------|-----------------------------------------------------------------|------|
| A  | 124m W   | Inland river not influenced by normal tidal action. | Underground       | Watercourse contains water year round (in normal circumstances) | -    |
| A  | 125m W   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| B  | 135m W   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| 5  | 155m W   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| 6  | 164m SW  | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| A  | 165m W   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| A  | 165m W   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| A  | 166m W   | Inland river not influenced by normal tidal action. | Underground       | Watercourse contains water year round (in normal circumstances) | -    |
| C  | 166m SW  | Lake, loch or reservoir.                            | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| A  | 181m W   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| C  | 192m SW  | Lake, loch or reservoir.                            | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| C  | 192m SW  | Lake, loch or reservoir.                            | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |

*This data is sourced from the Ordnance Survey.*



## 6.2 Surface water features

### Records within 250m

6

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 100**

*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

### Records on site

2

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 100**

| ID | Location | Type               | Water body catchment          | Water body ID  | Operational catchment             | Management catchment |
|----|----------|--------------------|-------------------------------|----------------|-----------------------------------|----------------------|
| 2  | On site  | River WB catchment | Clywedog - Dee to Gwenfro     | GB111067052110 | Clywedog - Dee                    | Dee                  |
| 3  | On site  | River WB catchment | Dee - Chester Weir to Ceiriog | GB111067057080 | Dee Lower Chester Weir to Ceiriog | Dee                  |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 6.4 WFD Surface water bodies

### Records identified

2

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site.

Features are displayed on the Hydrology map on **page 100**

| ID | Location | Type  | Name                          | Water body ID  | Overall rating | Chemical rating | Ecological rating | Year |
|----|----------|-------|-------------------------------|----------------|----------------|-----------------|-------------------|------|
| -  | 758m S   | River | Clywedog - Dee to Gwenfro     | GB111067052110 | Moderate       | Fail            | Moderate          | 2016 |
| -  | 3263m S  | River | Dee - Chester Weir to Ceiriog | GB111067057080 | Moderate       | Fail            | Moderate          | 2016 |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 6.5 WFD Groundwater bodies

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>1</b> |
|------------------------|----------|

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on **page 100**

| ID | Location | Name                         | Water body ID  | Overall rating | Chemical rating | Quantitative | Year |
|----|----------|------------------------------|----------------|----------------|-----------------|--------------|------|
| 1  | On site  | Dee Permo-Triassic Sandstone | GB41101G202400 | Poor           | Poor            | Good         | 2019 |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 7 River and coastal flooding

### 7.1 Risk of flooding from rivers and the sea

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## River and coastal flooding - Flood Zones

### 7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.7 Flood Zone 3

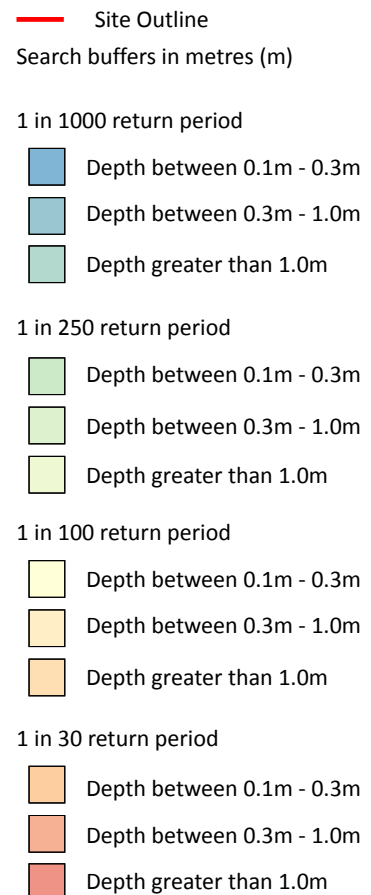
Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 8 Surface water flooding



### 8.1 Surface water flooding

**Highest risk on site**

**1 in 100 year, 0.1m - 0.3m**

**Highest risk within 50m**

**1 in 30 year, 0.3m - 1.0m**

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 107**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

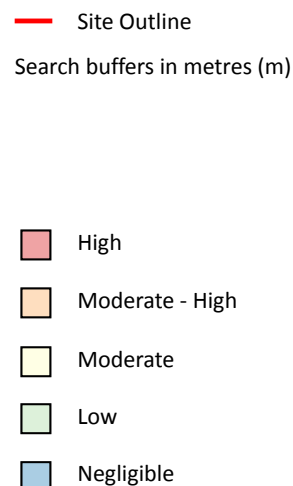
The table below shows the maximum flood depths for a range of return periods for the site.

| Return period  | Maximum modelled depth |
|----------------|------------------------|
| 1 in 1000 year | Between 0.1m and 0.3m  |
| 1 in 250 year  | Between 0.1m and 0.3m  |
| 1 in 100 year  | Between 0.1m and 0.3m  |
| 1 in 30 year   | Negligible             |

*This data is sourced from Ambiantal Risk Analytics.*



## 9 Groundwater flooding



### 9.1 Groundwater flooding

**Highest risk on site**

**Low**

**Highest risk within 50m**

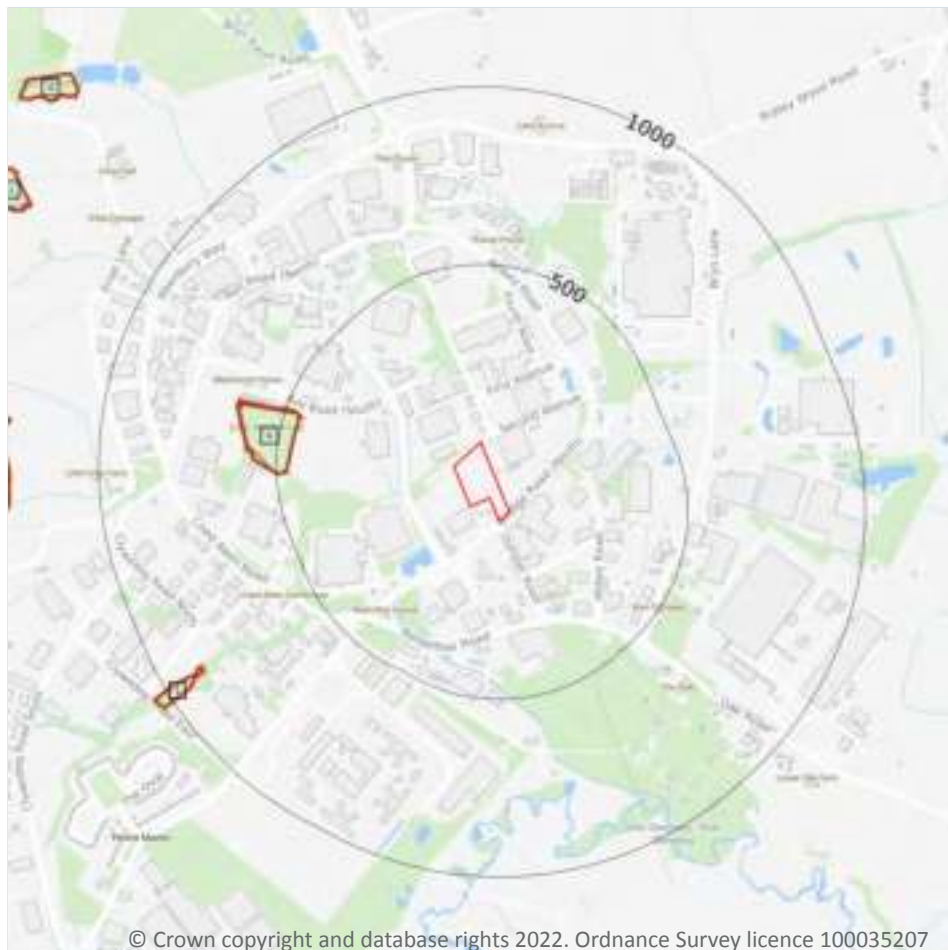
**Low**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 109**

*This data is sourced from Ambiantal Risk Analytics.*

## 10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- ▨ Designated Ancient Woodland

### 10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.2 Conserved wetland sites (Ramsar sites)

**Records within 2000m****0**

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.3 Special Areas of Conservation (SAC)

**Records within 2000m****0**

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.4 Special Protection Areas (SPA)

**Records within 2000m****0**

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.5 National Nature Reserves (NNR)

**Records within 2000m****0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.6 Local Nature Reserves (LNR)

Records within 2000m

0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.7 Designated Ancient Woodland

Records within 2000m

11

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 110**

| ID | Location | Name    | Woodland Type                  |
|----|----------|---------|--------------------------------|
| A  | 456m W   | Unknown | Restored Ancient Woodland Site |
| A  | 463m W   | Unknown | Restored Ancient Woodland Site |
| 1  | 880m SW  | Unknown | Ancient Semi Natural Woodland  |
| 2  | 1251m W  | Unknown | Ancient Semi Natural Woodland  |
| 3  | 1400m NW | Unknown | Ancient Semi Natural Woodland  |
| 4  | 1489m NW | Unknown | Restored Ancient Woodland Site |
| -  | 1721m SE | Unknown | Ancient Semi Natural Woodland  |
| -  | 1728m SE | Unknown | Ancient Semi Natural Woodland  |
| -  | 1764m S  | Unknown | Ancient Semi Natural Woodland  |
| -  | 1870m W  | Unknown | Ancient Semi Natural Woodland  |
| -  | 1908m S  | Unknown | Ancient Semi Natural Woodland  |

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

*This data is sourced from the Forestry Commission.*

## 10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

*This data is sourced from the Ministry of Housing, Communities and Local Government.*

## 10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

### 10.13 Possible Special Areas of Conservation (pSAC)

**Records within 2000m****0**

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

*This data is sourced from Natural England and Natural Resources Wales.*

### 10.14 Potential Special Protection Areas (pSPA)

**Records within 2000m****0**

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

### 10.15 Nitrate Sensitive Areas

**Records within 2000m****0**

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

*This data is sourced from Natural England.*

### 10.16 Nitrate Vulnerable Zones

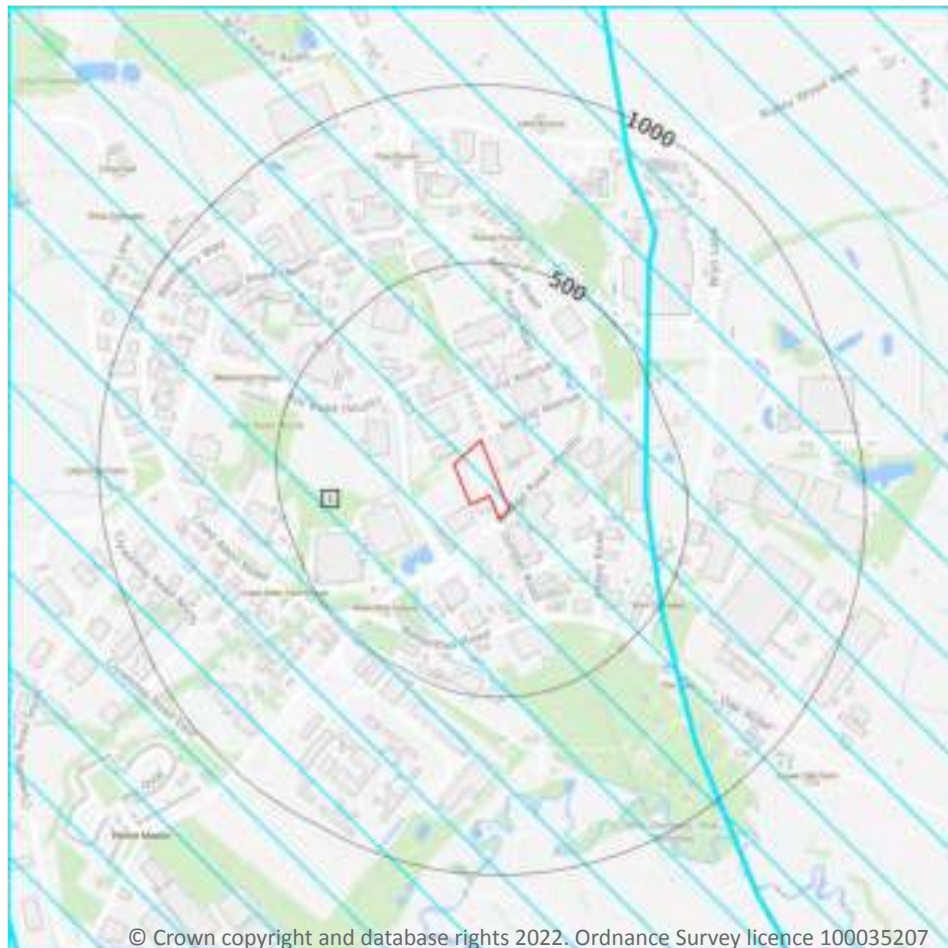
**Records within 2000m****0**

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

*This data is sourced from Natural England and Natural Resources Wales.*



## SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

### 10.17 SSSI Impact Risk Zones

#### Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 115**

| ID | Location | Type of developments requiring consultation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | <p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t).</p> <p>Combustion - General combustion processes &gt;50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> |

*This data is sourced from Natural England.*

## 10.18 SSSI Units

|                             |          |
|-----------------------------|----------|
| <b>Records within 2000m</b> | <b>0</b> |
|-----------------------------|----------|

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

*This data is sourced from Natural England and Natural Resources Wales.*

## 11 Visual and cultural designations

### 11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

### 11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

### 11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

*This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.*

### 11.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.7 Registered Parks and Gardens

Records within 250m

0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*



## 12 Agricultural designations

### 12.1 Agricultural Land Classification

Records within 250m

0

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

*This data is sourced from Natural Resources Wales.*

### 12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

*This data is sourced from Natural England and Natural Resources Wales.*

### 12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

*This data is sourced from the Forestry Commission.*

### 12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

*This data is sourced from Natural England.*

## 12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

*This data is sourced from Natural England.*



## 13 Habitat designations

### 13.1 Priority Habitat Inventory

Records within 250m

0

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

*This data is sourced from Natural England.*

### 13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

*This data is sourced from Natural England.*

### 13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

*This data is sourced from Natural England.*

### 13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

*This data is sourced from Natural England.*



## 14 Geology 1:10,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Full coverage
  - Partial coverage
  - No coverage

### 14.1 10k Availability

#### Records within 500m

2

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

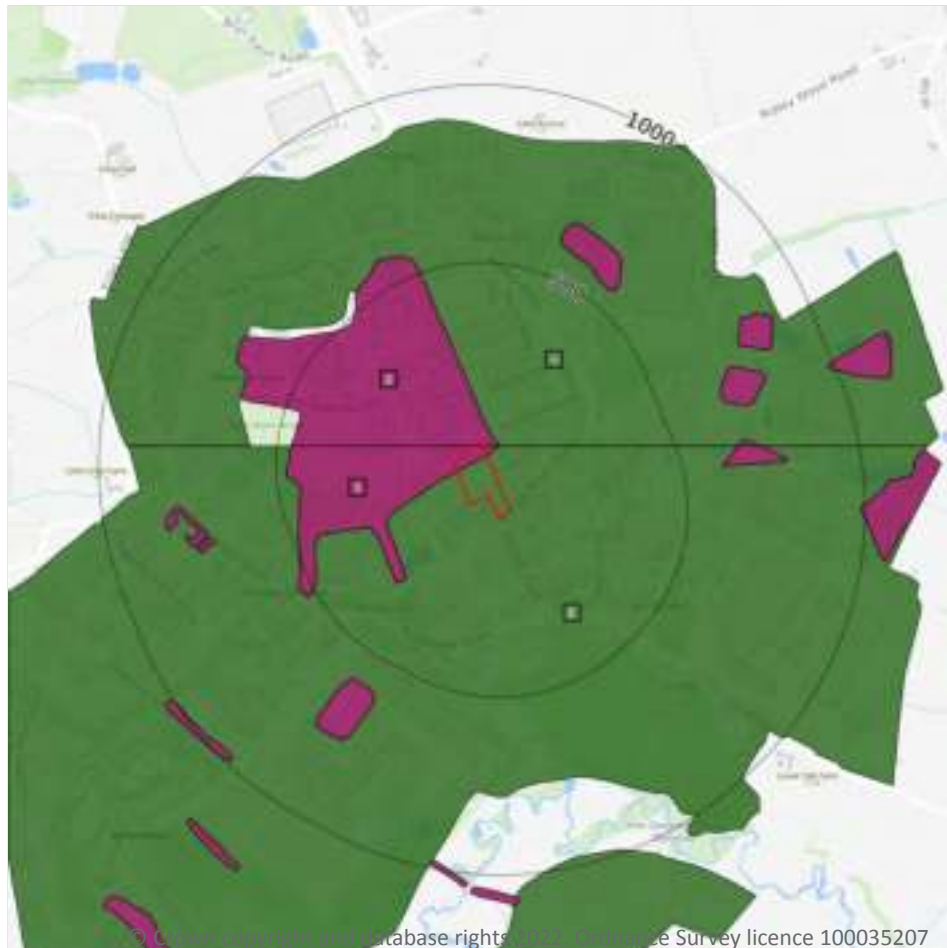
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 122**

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|----|----------|------------|-------------|---------|---------------|-----------|
| 1  | On site  | Full       | Full        | Full    | No coverage   | SJ35SE    |
| 2  | On site  | Full       | Full        | Full    | No coverage   | SJ34NE    |

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Reclaimed ground
  - Made ground
  - Worked ground
  - Infilled ground
  - Disturbed ground
  - Landscaped ground

### 14.2 Artificial and made ground (10k)

Records within 500m

4

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 123**

| ID | Location | LEX Code     | Description                   | Rock description           |
|----|----------|--------------|-------------------------------|----------------------------|
| 1  | On site  | MGR-ARTDP    | Made Ground (Undivided)       | Artificial Deposit         |
| 2  | On site  | MGR-UNKNOWN  | Made Ground (Undivided)       | Unknown/unclassified Entry |
| 3  | On site  | LSGR-UNKNOWN | Landscaped Ground (Undivided) | Unknown/unclassified Entry |
| 4  | 33m NE   | LSGR-UNKNOWN | Landscaped Ground (Undivided) | Unknown/unclassified Entry |



*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Superficial



**Site Outline**

Search buffers in metres (m)

**Landslip (10k)**

Superficial geology (10k)  
Please see table for more details.

### 14.3 Superficial geology (10k)

#### Records within 500m

3

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 125**

| ID | Location | LEX Code  | Description                                          | Rock description |
|----|----------|-----------|------------------------------------------------------|------------------|
| 1  | On site  | TILL-DMTN | Till - Diamicton                                     | Diamicton        |
| 2  | On site  | TILL-DMTN | Till - Diamicton                                     | Diamicton        |
| 3  | 149m W   | ALV-C     | Alluvium - Clay (unlithified Deposits Coding Scheme) | Clay             |

*This data is sourced from the British Geological Survey.*



## 14.4 Landslip (10k)

Records within 500m

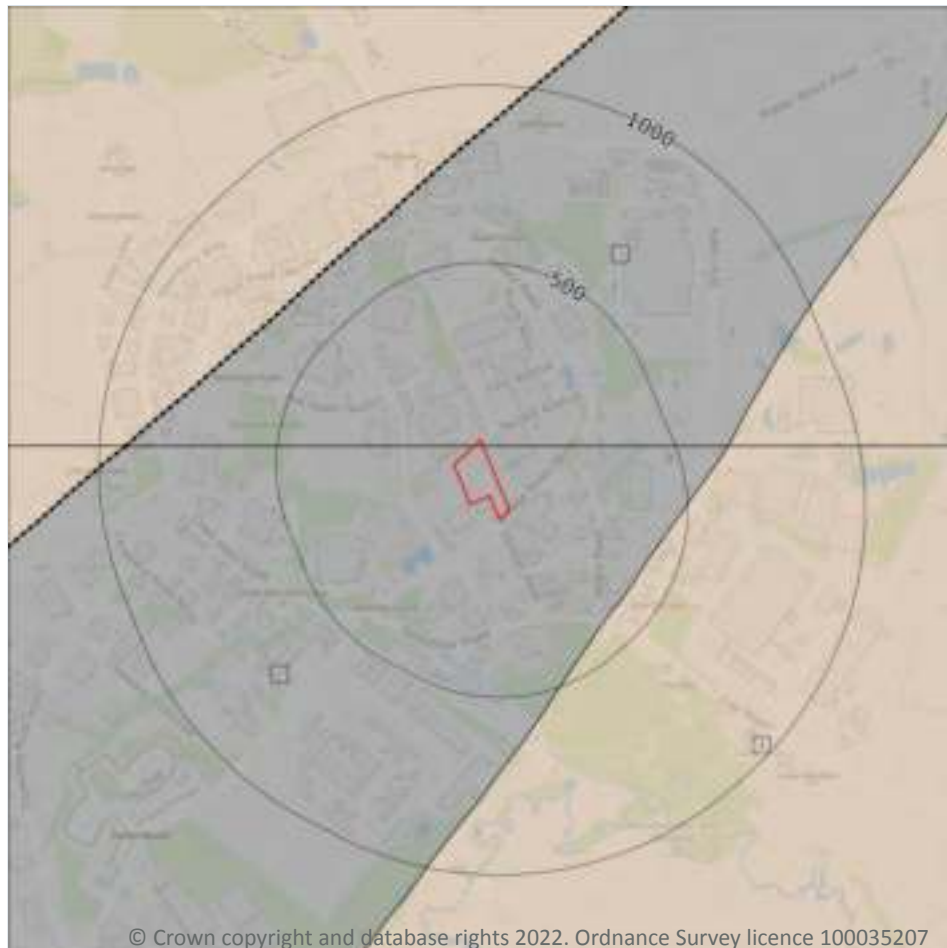
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)  
Please see table for more details.

### 14.5 Bedrock geology (10k)

Records within 500m

3

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 127**

| ID | Location | LEX Code  | Description                                                  | Rock age                                 |
|----|----------|-----------|--------------------------------------------------------------|------------------------------------------|
| 1  | On site  | SAL-CYCCM | Salop Formation - Sedimentary Rock Cycles, Coal Measure Type | Cisuralian Epoch - Westphalian D Sub-age |
| 2  | On site  | SAL-MDST  | Salop Formation - Mudstone                                   | Cisuralian Epoch - Westphalian D Sub-age |
| 3  | 402m SE  | KNSF-SDST | Kinnerton Sandstone Formation - Sandstone                    | Early Triassic Epoch                     |



*This data is sourced from the British Geological Survey.*

## 14.6 Bedrock faults and other linear features (10k)

Records within 500m

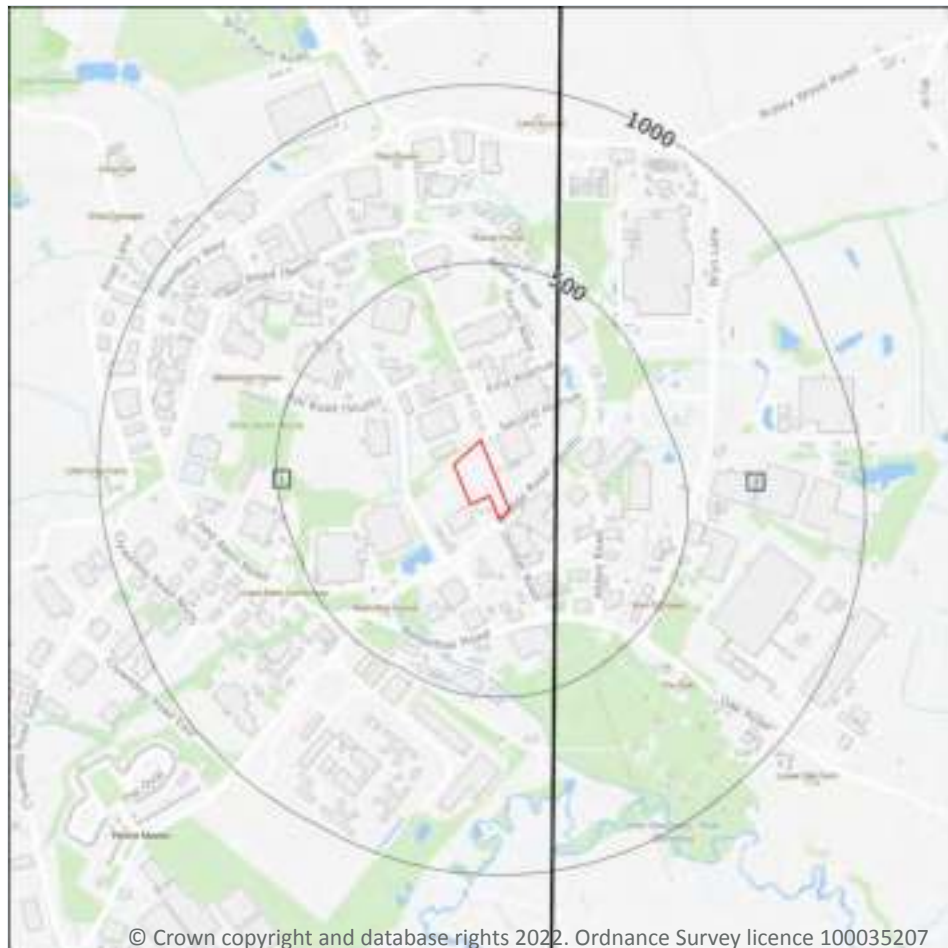
0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

*This data is sourced from the British Geological Survey.*



## 15 Geology 1:50,000 scale - Availability



— Site Outline  
Search buffers in metres (m)

☐ Geological map tile

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### 15.1 50k Availability

#### Records within 500m

2

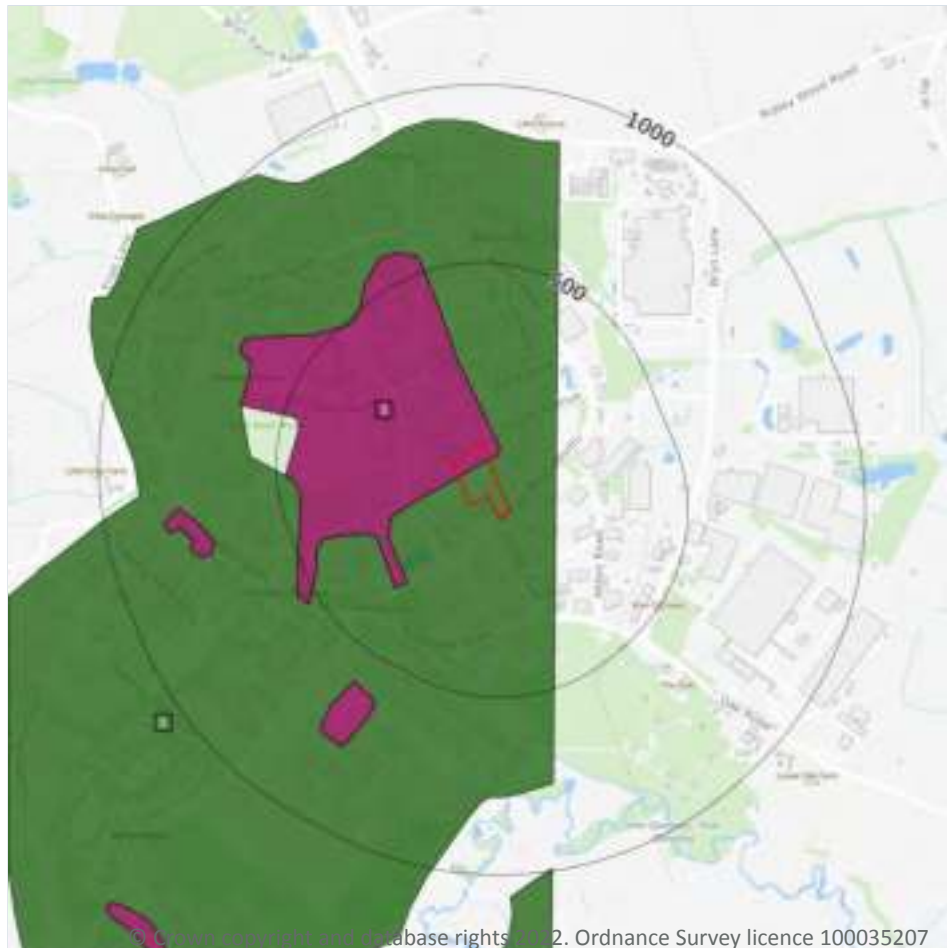
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme. Where 50k data is not available, this area has been filled in with 625k scale data.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 129**

| ID | Location | Artificial  | Superficial | Bedrock | Mass movement | Sheet No.         |
|----|----------|-------------|-------------|---------|---------------|-------------------|
| 1  | On site  | Full        | Full        | Full    | Full          | EW121_wrexham_v4  |
| 2  | 129m E   | No coverage | Full        | Full    | Full          | EW122_nantwich_v4 |

*This data is sourced from the British Geological Survey.*

## Geology 1:50,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Made ground
  - Worked ground
  - Infilled ground
  - Disturbed ground
  - Landscaped ground

### 15.2 Artificial and made ground (50k)

Records within 500m

2

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 130**

| ID | Location | LEX Code   | Description                   | Rock description             |
|----|----------|------------|-------------------------------|------------------------------|
| 1  | On site  | MGR-ARTDP  | MADE GROUND (UNDIVIDED)       | ARTIFICIAL DEPOSIT           |
| 2  | On site  | LSGR-ARTGR | LANDSCAPED GROUND (UNDIVIDED) | ARTIFICIALLY MODIFIED GROUND |

*This data is sourced from the British Geological Survey.*



### 15.3 Artificial ground permeability (50k)

**Records within 50m****4**

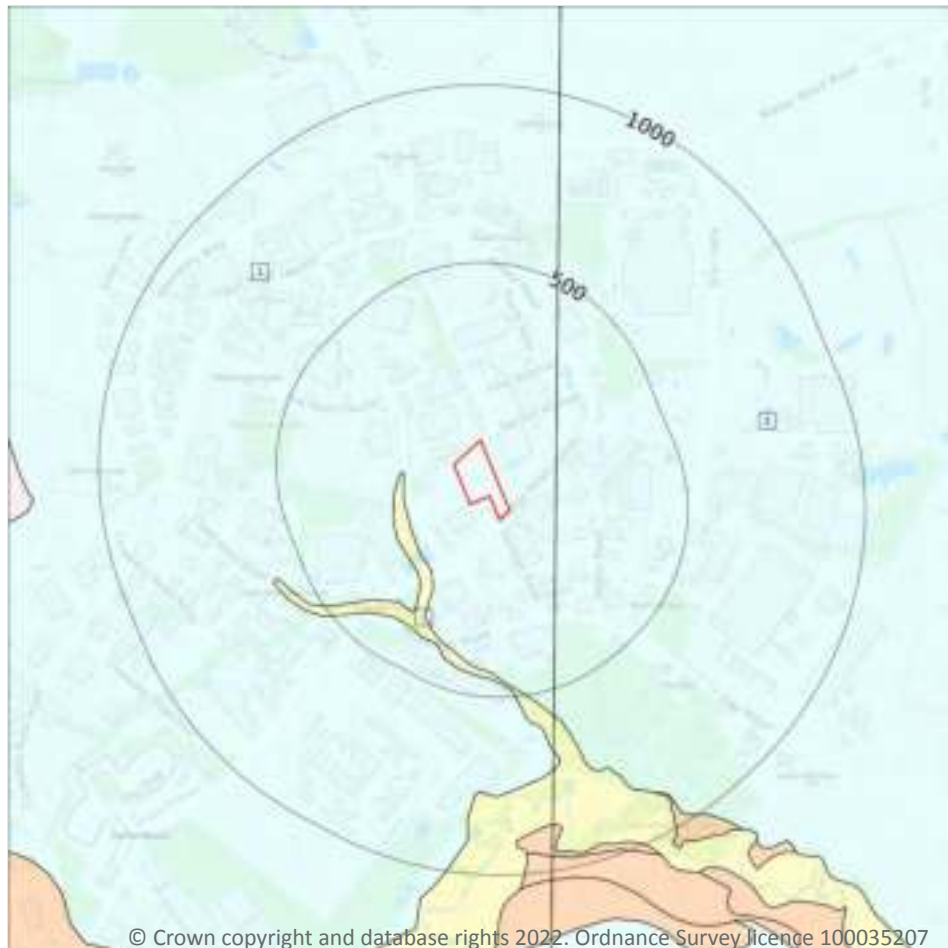
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

| Location | Flow type | Maximum permeability | Minimum permeability |
|----------|-----------|----------------------|----------------------|
| On site  | Mixed     | Very High            | Low                  |
| On site  | Mixed     | Very High            | Low                  |
| On site  | Mixed     | Very High            | Low                  |
| 40m NW   | Mixed     | Very High            | Low                  |

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)  
Please see table for more details.

### 15.4 Superficial geology (50k)

#### Records within 500m

3

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 132**

| ID | Location | LEX Code   | Description     | Rock description            |
|----|----------|------------|-----------------|-----------------------------|
| 1  | On site  | TILLD-DMTN | TILL, DEVANSIAN | DIAMICTON                   |
| 2  | 129m E   | TILLD-DMTN | TILL, DEVANSIAN | DIAMICTON                   |
| 3  | 143m W   | ALV-XCZSV  | ALLUVIUM        | CLAY, SILT, SAND AND GRAVEL |



*This data is sourced from the British Geological Survey.*

## 15.5 Superficial permeability (50k)

Records within 50m

2

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

| Location | Flow type | Maximum permeability | Minimum permeability |
|----------|-----------|----------------------|----------------------|
| On site  | Mixed     | High                 | Low                  |
| On site  | Mixed     | High                 | Low                  |

*This data is sourced from the British Geological Survey.*

## 15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*

## 15.7 Landslip permeability (50k)

Records within 50m

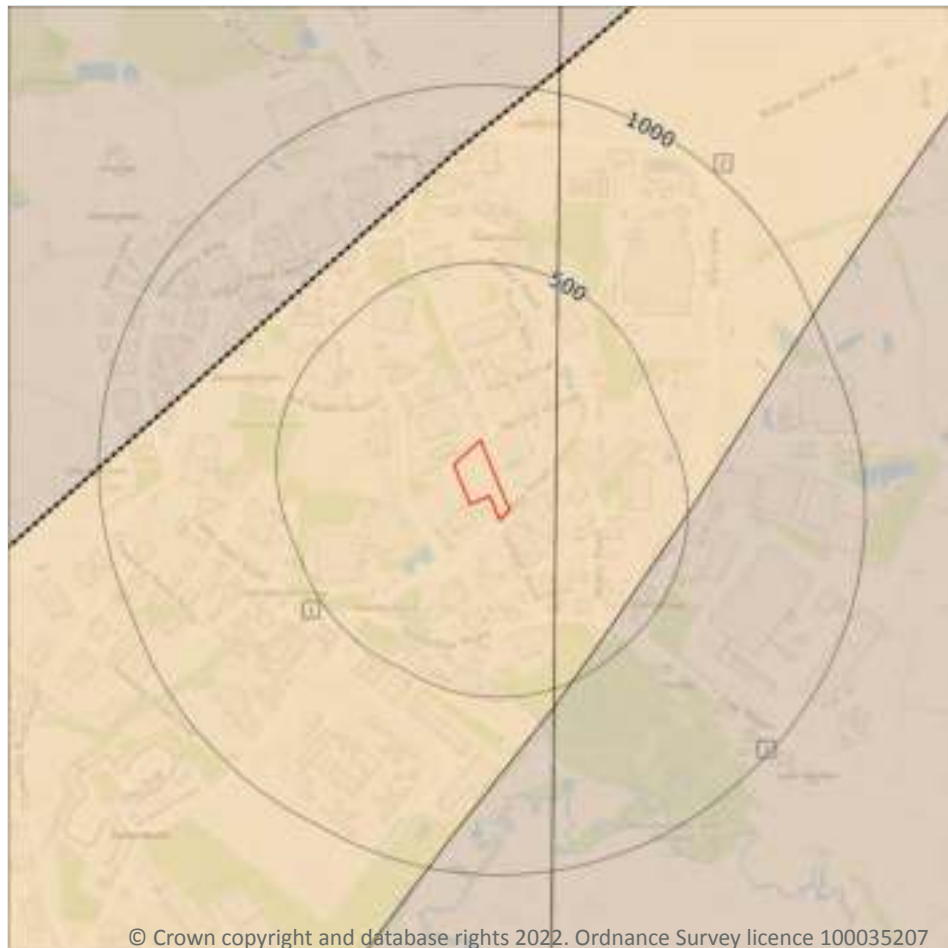
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)  
Please see table for more details.

### 15.8 Bedrock geology (50k)

Records within 500m

3

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 134**

| ID | Location | LEX Code  | Description                                            | Rock age    |
|----|----------|-----------|--------------------------------------------------------|-------------|
| 1  | On site  | SAL-MDSC  | SALOP FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE | WESTPHALIAN |
| 2  | 129m E   | SAL-MDSC  | SALOP FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE | WESTPHALIAN |
| 3  | 419m SE  | KNSF-SDST | KINNERTON SANDSTONE FORMATION - SANDSTONE              | -           |



*This data is sourced from the British Geological Survey.*

## 15.9 Bedrock permeability (50k)

Records within 50m

2

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

| Location | Flow type | Maximum permeability | Minimum permeability |
|----------|-----------|----------------------|----------------------|
| On site  | Fracture  | Moderate             | Low                  |
| On site  | Fracture  | Moderate             | Low                  |

*This data is sourced from the British Geological Survey.*

## 15.10 Bedrock faults and other linear features (50k)

Records within 500m

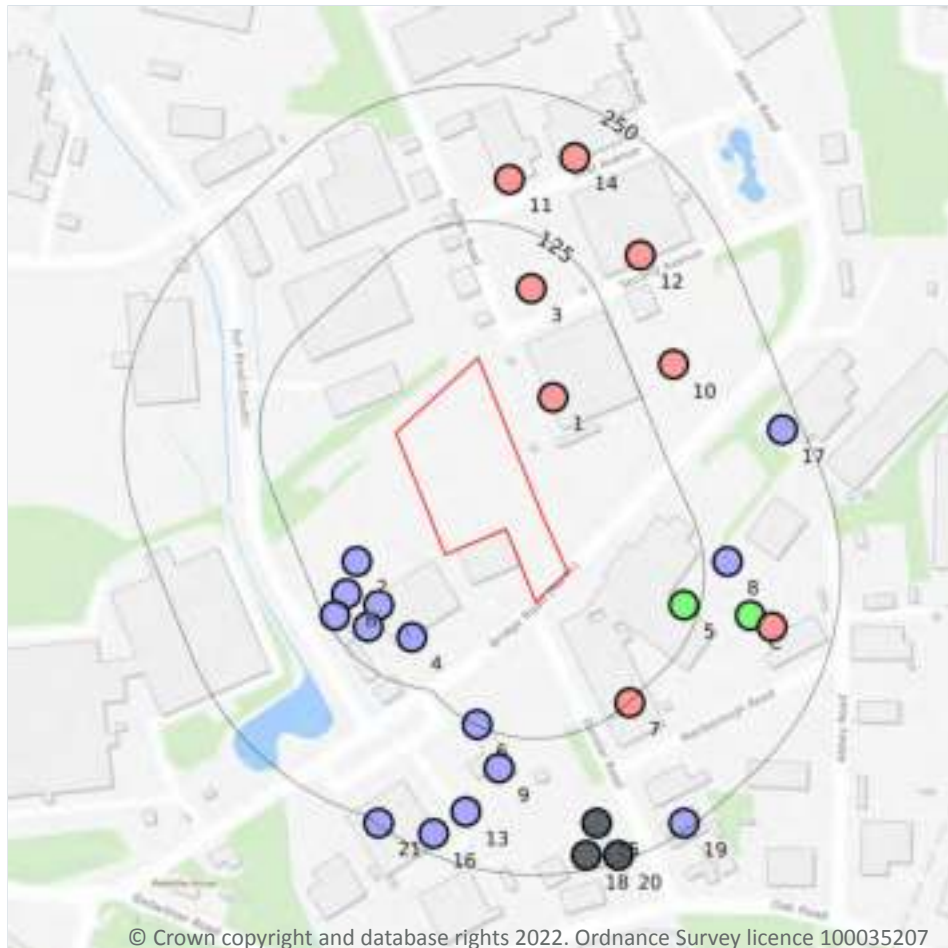
0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

*This data is sourced from the British Geological Survey.*



## 16 Boreholes



— Site Outline  
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

### 16.1 BGS Boreholes

Records within 250m

27

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 136**

| ID | Location | Grid reference | Name                    | Length | Confidential | Web link               |
|----|----------|----------------|-------------------------|--------|--------------|------------------------|
| 1  | 50m E    | 338380 349980  | BRITISH CELEROSE W44A   | 30.48  | N            | <a href="#">153108</a> |
| A  | 76m SW   | 338220 349790  | IND EST. BRIDGE ROAD. 6 | 6.0    | N            | <a href="#">153311</a> |
| 2  | 77m W    | 338200 349830  | IND EST. BRIDGE ROAD. 5 | 6.0    | N            | <a href="#">153310</a> |

| ID | Location | Grid reference | Name                                        | Length | Confidential | Web link               |
|----|----------|----------------|---------------------------------------------|--------|--------------|------------------------|
| 3  | 80m NE   | 338360 350080  | BRITISH CELANESE W36A                       | 30.48  | N            | <a href="#">154628</a> |
| 4  | 82m S    | 338250 349760  | BRIDGE ROAD WREXHAM 1                       | 6.0    | N            | <a href="#">153306</a> |
| A  | 97m SW   | 338210 349770  | IND EST. BRIDGE ROAD. 2                     | 6.5    | N            | <a href="#">153307</a> |
| B  | 98m W    | 338190 349800  | IND EST. BRIDGE ROAD. 4                     | 6.0    | N            | <a href="#">153309</a> |
| 5  | 111m E   | 338500 349790  | WREXHAM IND ESTATE, CHEM. DISPOSAL. 4       | 14.5   | N            | <a href="#">153289</a> |
| B  | 116m SW  | 338180 349780  | IND EST. BRIDGE ROAD. 3                     | 6.5    | N            | <a href="#">153308</a> |
| 6  | 125m SW  | 338310 349680  | IND EST. BRITISH TISSUES. 6                 | 4.0    | N            | <a href="#">153304</a> |
| 7  | 126m SE  | 338450 349700  | WREXHAM IND ESTATE, CHEM. DISPOSAL. 2A      | 47.0   | N            | <a href="#">153291</a> |
| 8  | 147m E   | 338540 349830  | WREXHAM IND ESTATE, CHEM. DISPOSAL. 1       | 10.0   | N            | <a href="#">153286</a> |
| 9  | 156m S   | 338330 349640  | IND EST. BRITISH TISSUES. 7                 | 4.0    | N            | <a href="#">153305</a> |
| 10 | 163m E   | 338490 350010  | BRITISH CELANESE W48A                       | 30.48  | N            | <a href="#">154631</a> |
| 11 | 166m N   | 338340 350180  | BRITISH CELANESE W4A                        | 30.48  | N            | <a href="#">154622</a> |
| C  | 171m E   | 338560 349780  | WREXHAM IND ESTATE, CHEM. DISPOSAL. 3       | 14.5   | N            | <a href="#">153288</a> |
| 12 | 176m NE  | 338460 350110  | BRITISH CELANESE W40A                       | 30.48  | N            | <a href="#">154629</a> |
| C  | 193m E   | 338580 349770  | WREXHAM IND ESTATE, CHEM. DISPOSAL. 3A      | 37.0   | N            | <a href="#">153292</a> |
| 13 | 203m S   | 338300 349600  | IND EST. BRITISH TISSUES. 5                 | 4.0    | N            | <a href="#">153303</a> |
| 14 | 204m NE  | 338400 350200  | BRITISH CELANESE 10A                        | 30.63  | N            | <a href="#">154623</a> |
| 15 | 210m S   | 338420 349590  | REDWITHER INDUSTRIAL COMPLEX DUNSTER ROAD 3 | -      | Y            | N/A                    |
| 16 | 232m SW  | 338270 349580  | IND EST. BRITISH TISSUES. 4                 | 4.0    | N            | <a href="#">153302</a> |
| 17 | 233m NE  | 338590 349950  | BRIDGE ROAD WREXHAM 6                       | 6.45   | N            | <a href="#">153372</a> |
| 18 | 237m S   | 338410 349560  | REDWITHER INDUSTRIAL COMPLEX DUNSTER ROAD 4 | -      | Y            | N/A                    |
| 19 | 244m SE  | 338500 349590  | IND EST. BRITISH TISSUES. 4A                | 6.5    | N            | <a href="#">153315</a> |
| 20 | 245m S   | 338440 349560  | REDWITHER INDUSTRIAL COMPLEX DUNSTER ROAD 2 | -      | Y            | N/A                    |
| 21 | 248m SW  | 338220 349590  | IND EST. BRITISH TISSUES. 5A                | 6.0    | N            | <a href="#">153316</a> |

*This data is sourced from the British Geological Survey.*



## 17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☒ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.1 Shrink swell clays

#### Records within 50m

1

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

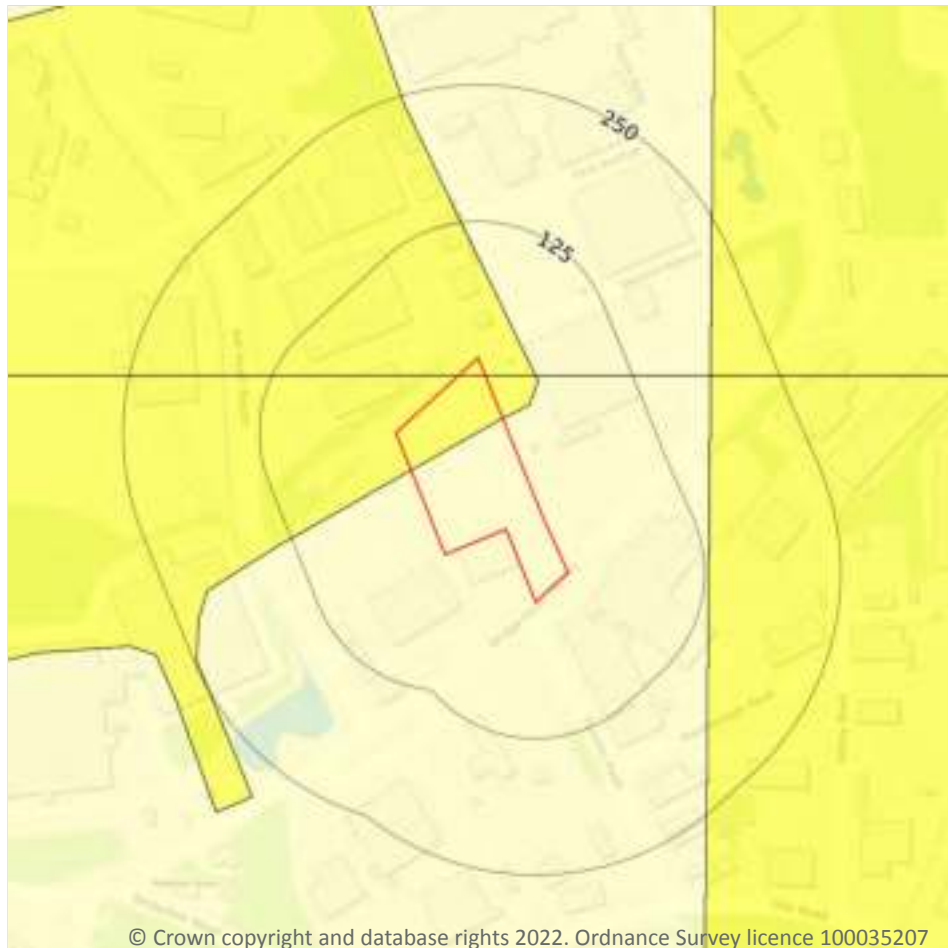
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 138**

| Location | Hazard rating | Details                                         |
|----------|---------------|-------------------------------------------------|
| On site  | Very low      | Ground conditions predominantly low plasticity. |

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☐ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.2 Running sands

#### Records within 50m

3

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 139**

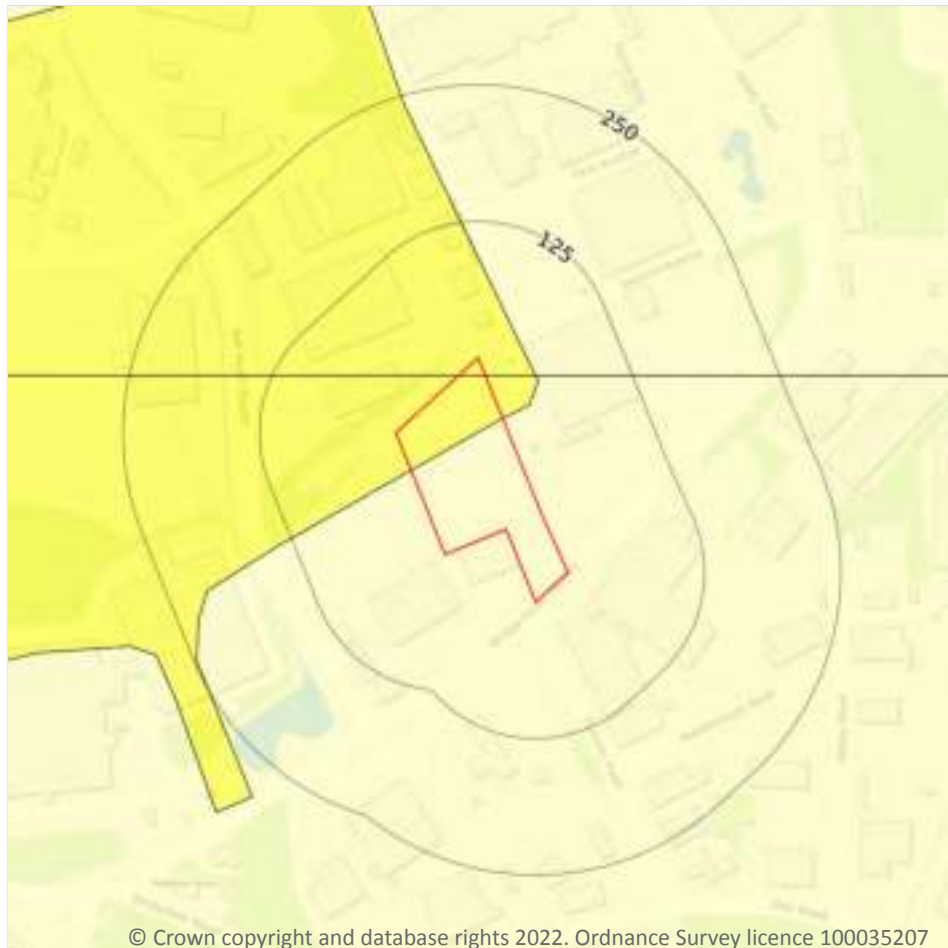
| Location | Hazard rating | Details                                                                                                                                                      |
|----------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| On site  | Negligible    | Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions. |

| Location | Hazard rating | Details                                                                                                                                                      |
|----------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| On site  | Very low      | Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.                      |
| 40m NE   | Negligible    | Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions. |

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☐ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.3 Compressible deposits

#### Records within 50m

3

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 141**

| Location | Hazard rating | Details                                                                                                         |
|----------|---------------|-----------------------------------------------------------------------------------------------------------------|
| On site  | Negligible    | Compressible strata are not thought to occur.                                                                   |
| On site  | Very low      | Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses. |

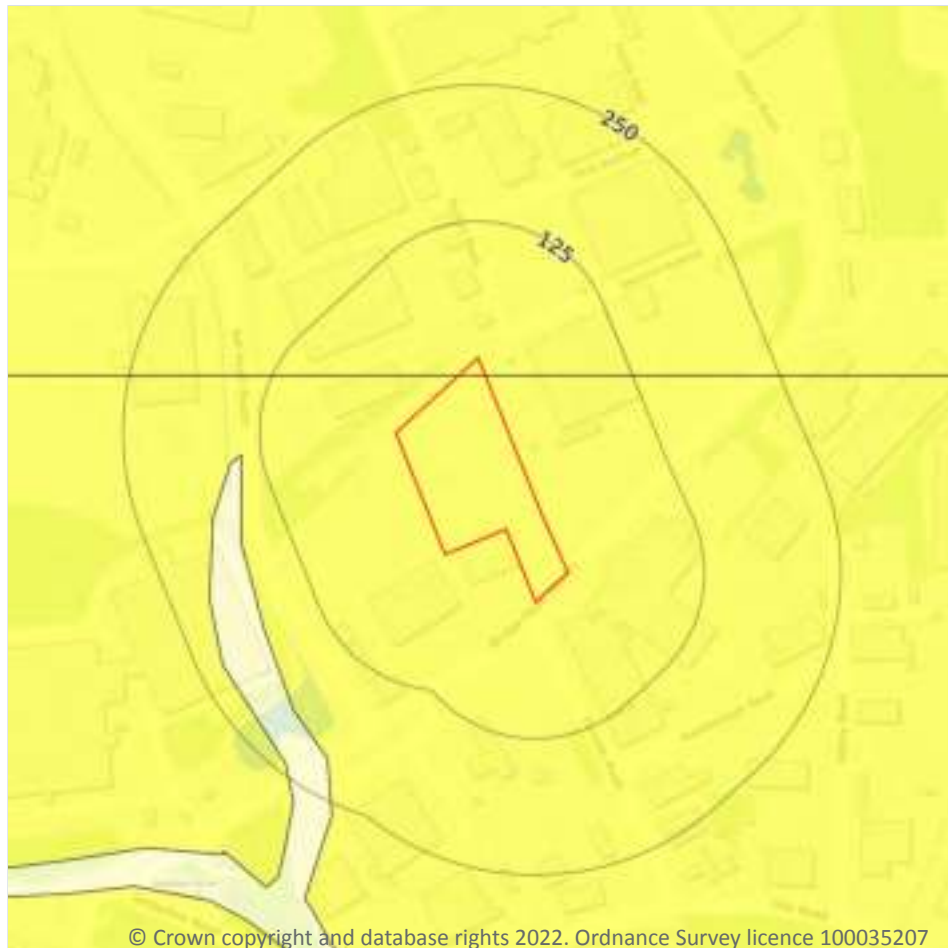
| Location | Hazard rating | Details |
|----------|---------------|---------|
|----------|---------------|---------|

|        |            |                                               |
|--------|------------|-----------------------------------------------|
| 40m NE | Negligible | Compressible strata are not thought to occur. |
|--------|------------|-----------------------------------------------|

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☒ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.4 Collapsible deposits

Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 143**

| Location | Hazard rating | Details                                                                                   |
|----------|---------------|-------------------------------------------------------------------------------------------|
| On site  | Very low      | Deposits with potential to collapse when loaded and saturated are unlikely to be present. |

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Landslides



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- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☒ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.5 Landslides

#### Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 144**

| Location | Hazard rating | Details                                                                                                                                                         |
|----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| On site  | Very low      | Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered. |

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Ground dissolution of soluble rocks



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☐ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.6 Ground dissolution of soluble rocks

#### Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 145**

| Location | Hazard rating | Details                                                                                                                                             |
|----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| On site  | Negligible    | Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present. |

*This data is sourced from the British Geological Survey.*



## 18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

### 18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

*This data is sourced from Stantec UK Ltd.*

## 18.2 BritPits

Records within 500m

0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

*This data is sourced from the British Geological Survey.*

## 18.3 Surface ground workings

Records within 250m

29

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 147**

| ID | Location | Land Use         | Year of mapping | Mapping scale |
|----|----------|------------------|-----------------|---------------|
| 1  | 6m NW    | Unspecified Heap | 1992            | 1:10000       |
| A  | 34m E    | Ponds            | 1872            | 1:10560       |
| A  | 36m E    | Ponds            | 1938            | 1:10560       |
| A  | 38m E    | Ponds            | 1949            | 1:10560       |
| A  | 38m E    | Ponds            | 1898            | 1:10560       |
| B  | 92m SW   | Ponds            | 1977            | 1:10000       |
| B  | 92m SW   | Ponds            | 1964            | 1:10560       |
| C  | 102m NW  | Unspecified Heap | 1982            | 1:10000       |
| C  | 102m NW  | Unspecified Heap | 1960            | 1:10560       |
| C  | 102m NW  | Unspecified Heap | 1968            | 1:10560       |
| D  | 118m SE  | Ponds            | 1898            | 1:10560       |
| D  | 120m SE  | Ponds            | 1872            | 1:10560       |
| D  | 120m SE  | Pond             | 1909            | 1:10560       |
| D  | 121m SE  | Pond             | 1938            | 1:10560       |
| 2  | 124m E   | Unspecified Heap | 1964            | 1:10560       |
| E  | 131m E   | Pond             | 1872            | 1:10560       |
| E  | 136m E   | Pond             | 1898            | 1:10560       |



| ID | Location | Land Use                    | Year of mapping | Mapping scale |
|----|----------|-----------------------------|-----------------|---------------|
| F  | 141m NW  | Unspecified Heap            | 1982            | 1:10000       |
| F  | 141m NW  | Unspecified Heap            | 1960            | 1:10560       |
| F  | 141m NW  | Unspecified Heap            | 1968            | 1:10560       |
| G  | 156m W   | Unspecified Pit             | 1982            | 1:10000       |
| G  | 156m W   | Unspecified Pit             | 1960            | 1:10560       |
| G  | 156m W   | Unspecified Pit             | 1968            | 1:10560       |
| H  | 161m W   | Unspecified Heap            | 1977            | 1:10000       |
| 3  | 166m SW  | Pond                        | 1992            | 1:10000       |
| H  | 186m W   | Unspecified Ground Workings | 1964            | 1:10560       |
| 4  | 198m W   | Unspecified Heap            | 1992            | 1:10000       |
| I  | 231m SW  | Ponds                       | 1977            | 1:10000       |
| I  | 231m SW  | Ponds                       | 1964            | 1:10560       |

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.4 Underground workings

**Records within 1000m**

**0**

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.5 Historical Mineral Planning Areas

**Records within 500m**

**0**

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

*This data is sourced from the British Geological Survey.*



## 18.6 Non-coal mining

### Records within 1000m

**0**

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

*This data is sourced from the British Geological Survey.*

## 18.7 Mining cavities

### Records within 1000m

**0**

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

*This data is sourced from Stantec UK Ltd.*

## 18.8 JPB mining areas

### Records on site

**0**

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

*This data is sourced from Johnson Poole and Bloomer.*

## 18.9 Coal mining

### Records on site

**1**

Areas which could be affected by past, current or future coal mining.

| Location | Details                                                                                                                                                                                                                                                              |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| On site  | The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider. |

*This data is sourced from the Coal Authority.*



### 18.10 Brine areas

|                 |   |
|-----------------|---|
| Records on site | 0 |
|-----------------|---|

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

*This data is sourced from the Cheshire Brine Subsidence Compensation Board.*

### 18.11 Gypsum areas

|                 |   |
|-----------------|---|
| Records on site | 0 |
|-----------------|---|

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

### 18.12 Tin mining

|                 |   |
|-----------------|---|
| Records on site | 0 |
|-----------------|---|

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

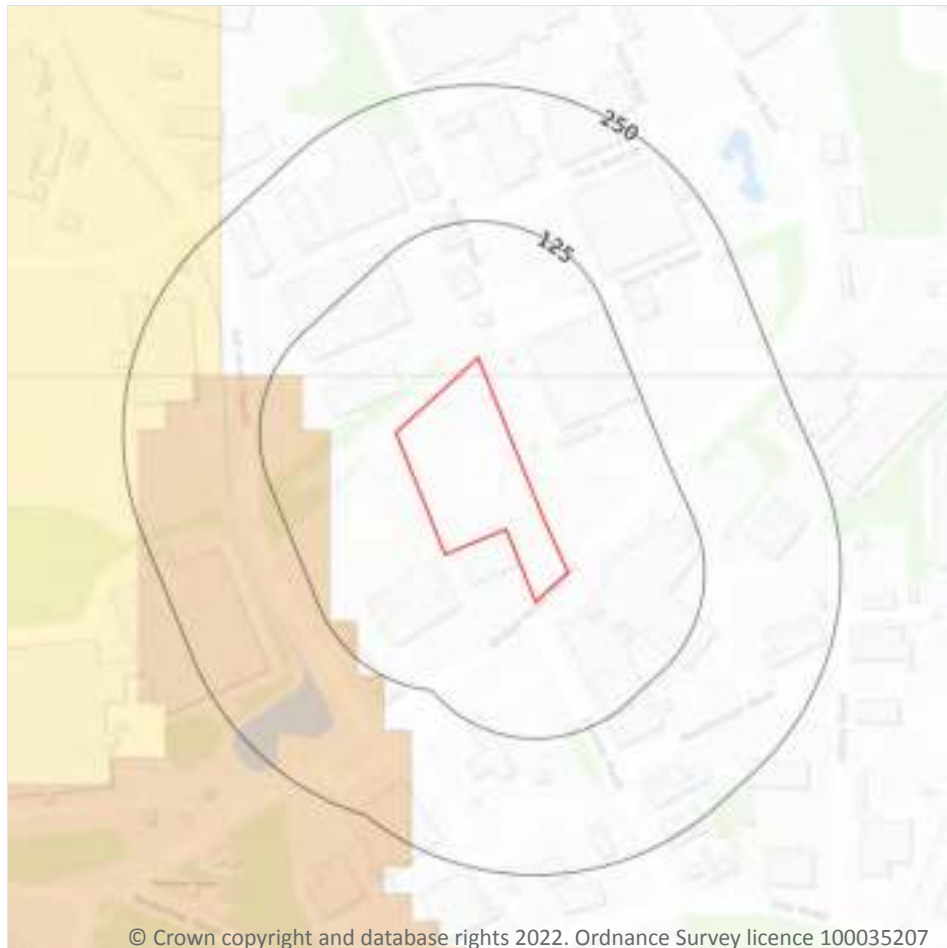
### 18.13 Clay mining

|                 |   |
|-----------------|---|
| Records on site | 0 |
|-----------------|---|

Generalised areas that may be affected by kaolin and ball clay extraction.

*This data is sourced from the Kaolin and Ball Clay Association (UK).*

## 19 Radon



- Site Outline
- Search buffers in metres (m)
- Greater than 30%
  - Between 10% and 30%
  - Between 5% and 10%
  - Between 3% and 5%
  - Between 1% and 3%
  - Less than 1%

### 19.1 Radon

#### Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 152**

| Location | Estimated properties affected | Radon Protection Measures required |
|----------|-------------------------------|------------------------------------|
| On site  | Less than 1%                  | None**                             |

*This data is sourced from the British Geological Survey and Public Health England.*



## 20 Soil chemistry

### 20.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km<sup>2</sup>. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km<sup>2</sup>; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

| Location | Arsenic  | Bioaccessible Arsenic | Lead      | Bioaccessible Lead | Cadmium   | Chromium      | Nickel        |
|----------|----------|-----------------------|-----------|--------------------|-----------|---------------|---------------|
| On site  | 15 mg/kg | No data               | 100 mg/kg | 60 mg/kg           | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| On site  | 15 mg/kg | No data               | 100 mg/kg | 60 mg/kg           | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |

*This data is sourced from the British Geological Survey.*

### 20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km<sup>2</sup>).

*This data is sourced from the British Geological Survey.*

### 20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km<sup>2</sup>.

*This data is sourced from the British Geological Survey.*



## 21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- ... Active railways
- ... Active tunnels
- ... Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

### 21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

*This data is sourced from publicly available information by Groundsure.*

### 21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

*This data is sourced from publicly available information by Groundsure.*

## 21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

## 21.4 Historical railway and tunnel features

Records within 250m

4

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 154**

| Location | Land Use        | Year of mapping | Mapping scale |
|----------|-----------------|-----------------|---------------|
| 49m W    | Railway Sidings | 1982            | 2500          |
| 55m SE   | Railway Sidings | 1964            | 10560         |
| 79m E    | Railway Sidings | 1959            | 2500          |
| 81m SE   | Railway Sidings | 1949            | 10560         |

*This data is sourced from Ordnance Survey/Groundsure.*

## 21.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

*This data is sourced from Groundsure/the Postal Museum.*



## 21.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

*This data is sourced from OpenStreetMap.*

## 21.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

*This data is sourced from publicly available information by Groundsure.*

## 21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

*This data is sourced from publicly available information by Groundsure.*

## 21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

*This data is sourced from HS2 Ltd.*

## Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

## Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



# Preliminary Unexploded Ordnance Risk Assessment



**Project:** COOLPOINT LTD, COOLPOINT LTD, BRIDGE ROAD NORTH,  
WREXHAM INDUSTRIAL ESTATE, WREXHAM, LL13 9PS

**Groundsure Ref:** HMD-8628686

Report prepared by SafeLane Global and FIND Mapping Limited

Report reference: 504942

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# Preliminary Unexploded Ordnance Threat Assessment

**For:**

COOLPOINT LTD, COOLPOINT LTD, BRIDGE ROAD NORTH, WREXHAM INDUSTRIAL ESTATE, WREXHAM, LL13 9PS

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| 4 Search Results                                   | 06          |
| 5 Risk of UXO Based on WWII German Bombing Density | 08          |
| 6 Conclusions                                      | 09          |

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**1 Has a potential unexploded ordnance (UXO) risk been identified at the site in question?**

**YES**

Indicative British / Allied UXO Risk

**MEDIUM**

Indicative German UXO Risk

**NEGLIGIBLE**

**2 Does the site in question require further research to clarify the unexploded ordnance (UXO) risk to future ground works?**

**YES**

**3 SafeLane Global's recommendation:**

A Stage 2 Detailed Unexploded Ordnance Desktop Threat Assessment of the site is carried out.

To request a quotation please call SafeLane Global on 01634 471 340

**If you order the recommended Stage 2 Detailed Desktop Threat Assessment, you will be refunded the fee for this BombRisk Preliminary Threat Assessment.**

### About SafeLane Global Limited

Operational for over 30 years for 10,000+ clients, SafeLane Global supports the UK construction industry with its BombRisk service. This assesses the risk of encountering items of unexploded ordnance (UXO) during intrusive works.

SafeLane Global's specialist advice provides essential information for risk assessments, improving safety and enhancing reputations, helping contractors avoid costly delays.

SafeLane Global holds the following accreditations:

- **Occupational Health & Safety Management Systems (OHAS 18001:2007)**
- **Environmental Management Systems (ISO 14001:2004)**
- **Quality Management Systems (ISO 9001:2008).**

The risk of encountering UXO on most sites in the UK is low. However, where a site is at increased risk it is necessary to take measures to mitigate that risk. The factors affecting UXO risk assessment are based upon the history and previous usage of a site and its surroundings.

In 2009, the Construction Industry Research and Information Association (CIRIA) established a set of guidelines to assist industry professionals; SafeLane Global was a significant contributor to the guide, under former company name Dynasafe BACTEC.

CIRIA recommends a four-stage risk management process:

- **Preliminary risk assessment**
- **Detailed risk assessment**
- **Risk mitigation**
- **Implementation**

The preliminary risk assessment enables a non-UXO specialist to place a site in context and to identify whether a more detailed assessment is necessary. The assessment is based upon data obtained from desktop reviews of the site's history and its proximity to potential indicators of UXO contamination.

There are two principal groups of onshore UXO in the UK:

- **British / Allied army, air force and navy activities - domestic military activity**
- **Enemy bombing during WWI and WWII - aerial bombing and naval bombardment**

These two groups comprise many potential UXO risk contributing sources within the UK, the most significant of which are listed below. Georeferenced databases containing this information are used

by BombRisk.com to identify areas of potentially elevated UXO risk.

- **Historic army, navy and air-force facilities**
- **Explosives / ammunition factories**
- **Munitions storage depots**
- **Historic military training areas and firing ranges**
- **British army explosive ordnance clearance tasks / recces**
- **WWII heavy anti-aircraft batteries**
- **WWII anti-invasion defensive fortifications**
- **Miscellaneous WWII pipe mined locations**
- **WWII prisoner of war camps**
- **WWII German bombing density statistics**
- **WWII bombing decoy sites**
- **Press articles regarding UXO finds**
- **Locations of SafeLane Global UXO finds**
- **Locations of SafeLane Global desktop threat assessments**
- **Locations of SafeLane Global on-site support services**

## About FIND Mapping Limited

Established in 2006, FIND Mapping Limited is a pioneering web mapping and spatial data technology company offering online mapping and consultancy services. FIND technology powers the generation of this report.

[www.findmaps.co.uk](http://www.findmaps.co.uk) provides detailed mapping and a wealth of data sets to hundreds of the UK's top property, environmental and design/build companies.

FIND's consultancy services provide bespoke internet mapping solutions to a range of businesses enabling them to manage their spatial data more effectively.

While working closely with a wide range of reputable data providers including Ordnance Survey and the Environment Agency, FIND works independently of these organisations. A similar arm's-length relationship is maintained in terms of software and hardware providers. This enables the team at FIND to offer truly independent advice.

**SafeLane Global Limited and FIND have compiled a geo-referenced database of potential sources of UXO risk within the UK. From this information a range of risk zones have been defined.**

The weighting of these zones is based upon the influence of all relevant factors. A WWII-era RAF airfield, for example, has a far greater zone of influence than a single WWII-era anti-aircraft battery, as it would have covered a larger area, housed a much greater quantity / variety of munitions, seen more domestic troop training activities and would have been a more likely target for enemy bombers.

An online Preliminary Automated UXO Threat Assessment will determine an indicative level of UXO risk relating to a site. Note that these risk levels could be subject to change following the completion of any Detailed Desktop Threat Assessment for the same site.

The assessment will list all factors contributing to this weighting and will also give appropriate recommendations for further action, if considered necessary.

## SafeLane Global Limited's UXO Source Database

Within 10km of the site the following potential sources of explosive ordnance have been recorded:

| Source                                                                | Number within 10km |
|-----------------------------------------------------------------------|--------------------|
| Military Airfield Sites                                               | 1                  |
| Bombing Decoy Sites                                                   | 2                  |
| Press Articles Regarding UXO Finds                                    | 1                  |
| WWII Defence Related Positions & Pillboxes                            | 17                 |
| Historic Army Camps                                                   | 5                  |
| Army Explosive Ordnance Clearance Tasks/Recces                        | 2                  |
| Sites Related to the Manufacture of Explosives and Explosive Ordnance | 1                  |
| SafeLane Global Desk-top Threat Assessments                           | 2                  |
| Abandoned Bombs                                                       | None recorded      |
| Prisoner of War Camps                                                 | None recorded      |
| Military Training Areas and Firing Ranges                             | None recorded      |
| Heavy Anti-Aircraft Batteries                                         | None recorded      |
| Pipe Mined WWII Airfields                                             | None recorded      |
| Miscellaneous WWII Pipe Mined Locations                               | None recorded      |
| SafeLane Global Unexploded Ordnance Finds                             | None recorded      |
| SafeLane Global On-Site Support Services                              | None recorded      |

Of these sources, the following are deemed the most significant:

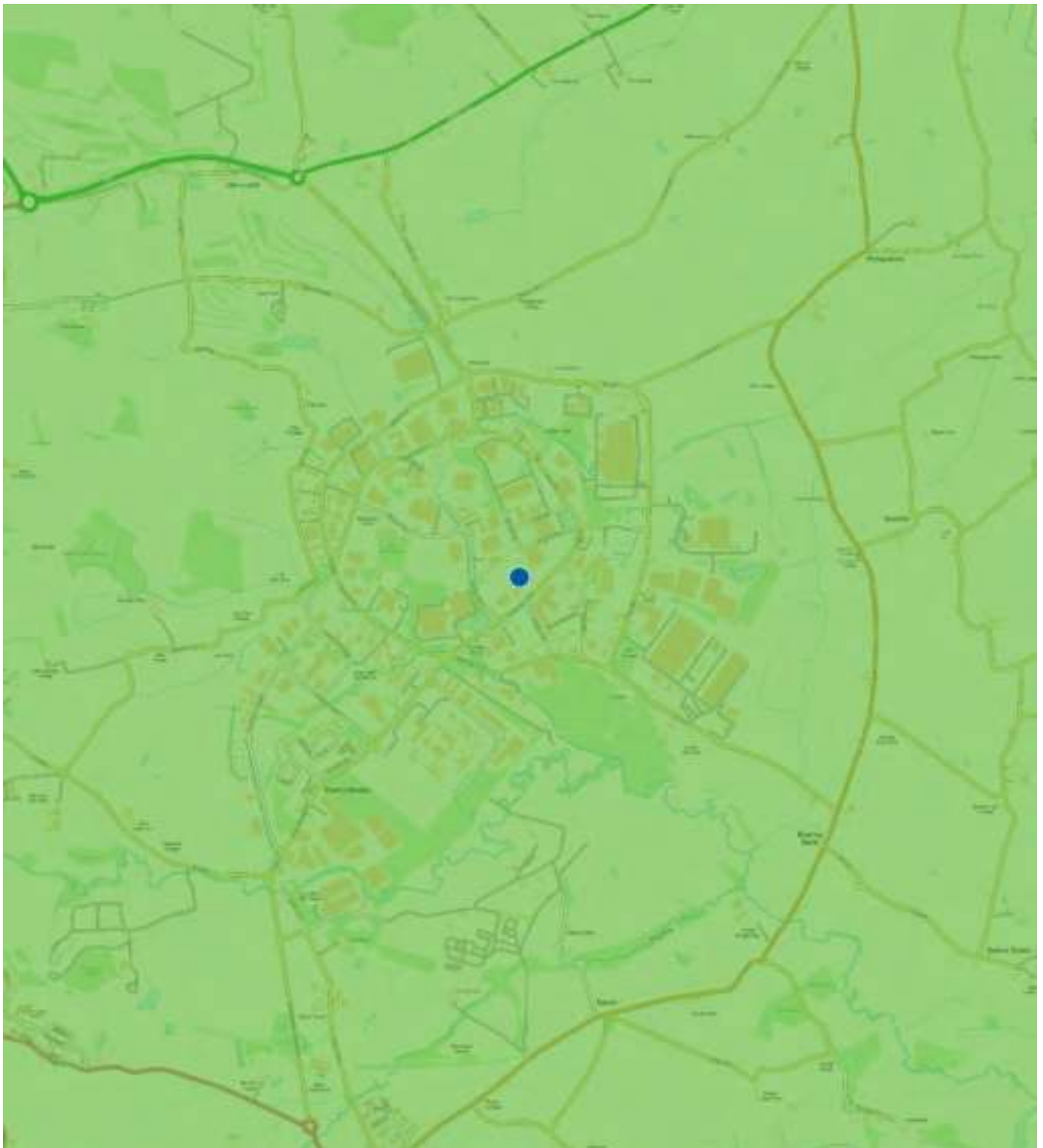
### Sites Related to the Manufacture of Explosives and Explosive Ordnance

| Facility Name      | Approximate distance (km) from site |
|--------------------|-------------------------------------|
| Wrexham, ROF, WWII | 1                                   |

During both WWI and WWII many factories were established (or existing sites converted) to produce explosives and/or fill ordnance with explosive and chemical constituents. These ranged from small engineering works to large national filling factories (WWI) and royal ordnance factories (WWII). The site of the proposed works lies in the vicinity of one of these facilities.

For a factory producing casings, for example, the associated risk is negligible. However, on sites handling or producing explosive and chemical weapons the risk of soil contamination can be high. Disposal areas (often on site boundaries) can pose considerable risk. The history of the facility should

be more fully researched.

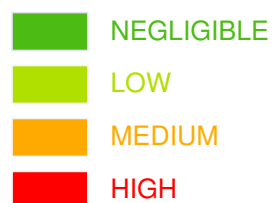


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1:20000



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Metres

### Risk Levels and Recommendation

#### Indicative British / Allied UXO Risk

##### MEDIUM

There are potential sources of British / Allied UXO recorded in SafeLane Global's historical database in proximity to the site. It is recommended that further research is undertaken to determine more about these potential sources and how they may have affected the site. Given the proximity of these sources, the risk on site from UXO is considered to be Medium.

#### Indicative German UXO Risk

##### NEGLIGIBLE

Historical records indicate a negligible level of bombing density from WWII. If there is empirical evidence of unexploded bomb risk (i.e. anecdotal evidence) then please contact SafeLane Global for further advice.

This preliminary assessment has identified a negligible risk from German unexploded bombs at this site.

### Conclusion

This preliminary assessment has resulted in an overall Medium risk from UXO. SafeLane Global would recommend that a Detailed UXO Threat Assessment Desk Top Study is undertaken for this site. Detailed assessments are conducted offline by SafeLane Global's researchers and use information such as historical mapping, WWII-era aerial photography, written air-raid precaution records and where necessary local archive research to fully qualify the risk on site. Land use, changes to building layout during WWII and post war redevelopment will also have an impact on any remaining level of risk from UXO. It is often possible to zone sites into different risk categories. The lead time for a detailed assessment will vary between 3-10 working days dependent upon the complexity of the site and the additional site specific information required.

**For a quotation, or more information, please contact SafeLane Global's research team on 01634 471 340, or at [research@safelaneglobal.com](mailto:research@safelaneglobal.com)**

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## APPENDIX 2

### Site Investigation Photo Log

**PHOTOGRAPHIC LOG**

| <b>Photo No.</b> | <b>Comments</b>                                             |
|------------------|-------------------------------------------------------------|
| <b>1</b>         | Site setting, looking N from entrance                       |
| <b>2</b>         | Site setting, looking N, behind Coolpoint                   |
| <b>3</b>         | Site setting, looking S from Coolpoint                      |
| <b>4</b>         | Site setting, looking S from behind Coolpoint               |
| <b>5</b>         | Bunded fuel tank, adjacent to site boundary                 |
| <b>6</b>         | Circular drainage access point, middle of site              |
| <b>7</b>         | TP1 made ground above stiff clay                            |
| <b>8</b>         | TP7 – natural ground ; stiff brown clay                     |
| <b>9</b>         | TP8A – stiff brown clay with small red clay brick fragments |
| <b>10</b>        | TP13 – made ground                                          |

**Photo 1**



**Photo 2**



**Photo 3**



**Photo 4**





**Photo 7**



**Photo 8**



**Photo 9**



**Photo 10**



## APPENDIX 3

### Trial Pit Logs

|                                                                                                                                                                                                     |                   | Project: Bridge Road North,<br>Wrexham.                                                                                                         | Trial Pit:<br><br><b>TP1</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Excavation date:<br><b>09.05.22</b>                                                                                                                                                                                                                                                  | Logged by:<br>SOB | Client:<br><b>JCP</b>                                                                                                                           | Project ID:<br><b>5125</b>   |
| <b>Strata:</b>                                                                                                                                                                                                                                                                       |                   |                                                                                                                                                 | <b>Sheet 1 of 1</b>          |
| Depth (m)                                                                                                                                                                                                                                                                            |                   | Description                                                                                                                                     | Samples                      |
| From                                                                                                                                                                                                                                                                                 | To                |                                                                                                                                                 |                              |
| 0                                                                                                                                                                                                                                                                                    | 0.2               | TOPSOIL. Medium dense, dark brown, slightly clayey sand.                                                                                        |                              |
| 0.2                                                                                                                                                                                                                                                                                  | 0.4               | MADE GROUND. Loose, brown, slightly silty, gravelly, sand. Gravels fine to medium, angular to sub-angular fragments of clay brick and concrete. | TP1A                         |
| 0.4                                                                                                                                                                                                                                                                                  | 0.5               | CLAY. Firm, brown sandy clay                                                                                                                    | TP1B                         |
|                                                                                                                                                                                                                                                                                      |                   | <u>End of trial pit 0.5 m</u><br><i>Terminated in natural ground</i>                                                                            |                              |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.5 m</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                                                                 |                              |

|                                                                                                                                                                                                    |                   | Project: Bridge Road North,<br>Wrexham.                                                                                                                  | Trial Pit:<br><br><b>TP2</b>   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                        | Logged by:<br>SOB | Client:<br><br><b>JCP</b>                                                                                                                                | Project ID:<br><br><b>5125</b> |
| <b>Strata:</b>                                                                                                                                                                                                                                                                      |                   |                                                                                                                                                          | <b>Sheet 1 of 1</b>            |
| Depth (m)                                                                                                                                                                                                                                                                           |                   | Description                                                                                                                                              | Samples                        |
| From                                                                                                                                                                                                                                                                                | To                |                                                                                                                                                          |                                |
| 0                                                                                                                                                                                                                                                                                   | 0.1               | TOPSOIL. Medium dense, dark brown, slightly clayey sand.                                                                                                 |                                |
| 0.1                                                                                                                                                                                                                                                                                 | 0.4               | MADE GROUND. Stiff brown clay. Loose slightly silty, gravelly, sand. Gravels fine to medium, angular to sub-angular fragments of clay brick and concrete | TP2A                           |
| 0.4                                                                                                                                                                                                                                                                                 | 0.5               | CLAY. Firm, brown sandy clay                                                                                                                             | TP2B                           |
|                                                                                                                                                                                                                                                                                     |                   | <p style="text-align: center;"><u>End of trial pit 0.5 m</u><br/><i>Terminated in natural ground</i></p>                                                 |                                |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b>– 1.0 x 1.0 x 0.5 m</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                                                                          |                                |

|                                                                                                                                                                                                       |                   | Project: Bridge Road North,<br>Wrexham.                                                                  | Trial Pit:<br><br><b>TP3</b>   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|--------------------------------|
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                           | Logged by:<br>SOB | Client:<br><br><b>JCP</b>                                                                                | Project ID:<br><br><b>5125</b> |
| <b>Strata:</b>                                                                                                                                                                                                                                                                         |                   |                                                                                                          | <b>Sheet 1 of 1</b>            |
| Depth (m)                                                                                                                                                                                                                                                                              |                   | Description                                                                                              | Samples                        |
| From                                                                                                                                                                                                                                                                                   | To                |                                                                                                          |                                |
| 0                                                                                                                                                                                                                                                                                      | 0.1               | TOPSOIL. Medium dense, dark brown, slightly clayey sand.                                                 | TP3A                           |
| 0.1                                                                                                                                                                                                                                                                                    | 0.5               | CLAY. Firm, orange sandy clay. Gravels fine, sub-angular fragments of limestone                          | TP3B                           |
|                                                                                                                                                                                                                                                                                        |                   | <p style="text-align: center;"><u>End of trial pit 0.5 m</u><br/><i>Terminated in natural ground</i></p> |                                |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 m x 0.5 m</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                          |                                |

|                                                                                                                                                                                                   |                   | Project: Bridge Road North,<br>Wrexham.                                                                  | Trial Pit:<br><br><b>TP4</b>   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|--------------------------------|
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                       | Logged by:<br>SOB | Client:<br><br><b>JCP</b>                                                                                | Project ID:<br><br><b>5125</b> |
| <b>Strata:</b>                                                                                                                                                                                                                                                                     |                   |                                                                                                          | <b>Sheet 1 of 1</b>            |
| Depth (m)                                                                                                                                                                                                                                                                          |                   | Description                                                                                              | Samples                        |
| From                                                                                                                                                                                                                                                                               | To                |                                                                                                          |                                |
| 0                                                                                                                                                                                                                                                                                  | 0.2               | TOPSOIL. Medium dense, dark brown, slightly clayey sand.                                                 | TP4A<br><br>TP4B               |
| 0.2                                                                                                                                                                                                                                                                                | 0.3               | TOPSOIL. Medium dense, light brown, slightly clayey sand and firm, grey CLAY.                            |                                |
| 0.3                                                                                                                                                                                                                                                                                | 0.4               | CLAY. Firm, orange-brown clay                                                                            |                                |
|                                                                                                                                                                                                                                                                                    |                   | <p style="text-align: center;"><u>End of trial pit 0.4 m</u><br/><i>Terminated in natural ground</i></p> |                                |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.4</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                          |                                |

|                                                                                                                                                                                                   |                   | Project: Bridge Road North,<br>Wrexham.                                                                  | Trial Pit:<br><br><b>TP5</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|------------------------------|
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                       | Logged by:<br>SOB | Client: JCP                                                                                              | Project ID:<br><b>5125</b>   |
| <b>Strata:</b>                                                                                                                                                                                                                                                                     |                   |                                                                                                          | <b>Sheet 1 of 1</b>          |
| Depth (m)                                                                                                                                                                                                                                                                          |                   | Description                                                                                              | Samples                      |
| From                                                                                                                                                                                                                                                                               | To                |                                                                                                          |                              |
| 0                                                                                                                                                                                                                                                                                  | 0.1               | TOPSOIL. Medium dense, dark brown, slightly clayey sand.                                                 |                              |
| 0.1                                                                                                                                                                                                                                                                                | 0.4               | TOPSOIL. Medium dense, light brown, slightly clayey sand and<br>CLAY loose, grey, sandy clay.            | TP5A                         |
| 0.4                                                                                                                                                                                                                                                                                | 0.5               | CLAY. Firm, orange-brown, slightly sandy clay                                                            | TP5B                         |
|                                                                                                                                                                                                                                                                                    |                   | <p style="text-align: center;"><u>End of trial pit 0.5 m</u><br/><i>Terminated in natural ground</i></p> |                              |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.5</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                          |                              |

|                                                                                                                                                                                                   |                   | Project: Bridge Road North,<br>Wrexham.                                                                  | Trial Pit:<br><br><b>TP6</b>   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|--------------------------------|
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                       | Logged by:<br>SOB | Client:<br><br><b>JCP</b>                                                                                | Project ID:<br><br><b>5125</b> |
| <b>Strata:</b>                                                                                                                                                                                                                                                                     |                   |                                                                                                          | <b>Sheet 1 of 1</b>            |
| Depth (m)                                                                                                                                                                                                                                                                          |                   | Description                                                                                              | Samples                        |
| From                                                                                                                                                                                                                                                                               | To                |                                                                                                          |                                |
| 0                                                                                                                                                                                                                                                                                  | 0.1               | TOPSOIL. Medium dense, dark brown, slightly clayey sand.                                                 |                                |
| 0.1                                                                                                                                                                                                                                                                                | 0.4               | TOPSOIL. Medium dense, light brown, slightly clayey sand and<br>CLAY loose, grey, sandy clay.            | TP6A                           |
| 0.4                                                                                                                                                                                                                                                                                | 0.5               | CLAY. Firm, orange-brown, slightly sandy clay                                                            | TP6B                           |
|                                                                                                                                                                                                                                                                                    |                   | <p style="text-align: center;"><u>End of trial pit 0.5 m</u><br/><i>Terminated in natural ground</i></p> |                                |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.5</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                          |                                |

|                                                                                                                                                                                                                                                                 |                   | Project: Bridge Road North,<br>Wrexham.                                                                  | Trial Pit:<br><br><b>TP7</b>   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|--------------------------------|
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                                                                                     | Logged by:<br>SOB | Client:<br><br><b>JCP</b>                                                                                | Project ID:<br><br><b>5125</b> |
| <b>Strata:</b>                                                                                                                                                                                                                                                                                                                                   |                   |                                                                                                          | <b>Sheet 1 of 1</b>            |
| Depth (m)                                                                                                                                                                                                                                                                                                                                        |                   | Description                                                                                              | Samples                        |
| From                                                                                                                                                                                                                                                                                                                                             | To                |                                                                                                          |                                |
| 0                                                                                                                                                                                                                                                                                                                                                | 0.2               | CLAY. Firm, orange-brown, slightly sandy clay.                                                           | TP7A                           |
| 0.2                                                                                                                                                                                                                                                                                                                                              | 0.5               | CLAY. Firm, orange sandy clay with firm, grey sandy CLAY                                                 | TP7B                           |
|                                                                                                                                                                                                                                                                                                                                                  |                   | <p style="text-align: center;"><u>End of trial pit 0.5 m</u><br/><i>Terminated in natural ground</i></p> |                                |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.5</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –1-2cm black gravel no odour or olfactory evidence of contamination</p> |                   |                                                                                                          |                                |

|                                                                                                                                                                                                   |                   | Project: Bridge Road North,<br>Wrexham.                                                                  | Trial Pit:<br><br><b>TP8</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|------------------------------|
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                       | Logged by:<br>SOB | Client: JCP                                                                                              | Project ID:<br><b>5125</b>   |
| Strata:                                                                                                                                                                                                                                                                            |                   |                                                                                                          | <b>Sheet 1 of 1</b>          |
| Depth (m)                                                                                                                                                                                                                                                                          |                   | Description                                                                                              | Samples                      |
| From                                                                                                                                                                                                                                                                               | To                |                                                                                                          |                              |
| 0                                                                                                                                                                                                                                                                                  | 0.4               | CLAY. Firm, brown sandy clay. With MADE GROUND gravels fine, sub-angular fragments of red clay brick     | TP8A                         |
| 0.4                                                                                                                                                                                                                                                                                | 0.5               | CLAY. Stiff, orange clay                                                                                 | TP8B                         |
|                                                                                                                                                                                                                                                                                    |                   | <p style="text-align: center;"><u>End of trial pit 0.5 m</u><br/><i>Terminated in natural ground</i></p> |                              |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.5</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                          |                              |

|                                                                                                                                                                                                                                                                                    |                   |                                                                                                          |                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|------------------------------|
|                                                                                                                                                                                                   |                   | Project: Bridge Road North,<br>Wrexham.                                                                  | Trial Pit:<br><br><b>TP9</b> |
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                       | Logged by:<br>SOB | Client: JCP                                                                                              | Project ID:<br><b>5125</b>   |
| Strata:                                                                                                                                                                                                                                                                            |                   |                                                                                                          | <b>Sheet 1 of 1</b>          |
| Depth (m)                                                                                                                                                                                                                                                                          |                   | Description                                                                                              | Samples                      |
| From                                                                                                                                                                                                                                                                               | To                |                                                                                                          |                              |
| 0                                                                                                                                                                                                                                                                                  | 0.4               | CLAY. Firm, brown sandy clay. With MADE GROUND gravels fine, sub-angular fragments of red clay brick     | TP9A                         |
| 0.4                                                                                                                                                                                                                                                                                | 0.5               | CLAY. Stiff, orange clay                                                                                 | TP9B                         |
|                                                                                                                                                                                                                                                                                    |                   | <p style="text-align: center;"><u>End of trial pit 0.5 m</u><br/><i>Terminated in natural ground</i></p> |                              |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.5</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                          |                              |

|                                                                                                                                                                                                                                                                                    |                   |                                                                                                          |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|-------------------------------|
|                                                                                                                                                                                                   |                   | Project: Bridge Road North,<br>Wrexham.                                                                  | Trial Pit:<br><br><b>TP10</b> |
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                       | Logged by:<br>SOB | Client: JCP                                                                                              | Project ID:<br><b>5125</b>    |
| Strata:                                                                                                                                                                                                                                                                            |                   |                                                                                                          | <b>Sheet 1 of 1</b>           |
| Depth (m)                                                                                                                                                                                                                                                                          |                   | Description                                                                                              | Samples                       |
| From                                                                                                                                                                                                                                                                               | To                |                                                                                                          |                               |
| 0                                                                                                                                                                                                                                                                                  | 0.4               | CLAY. Firm, brown sandy clay. With MADE GROUND gravels fine, sub-angular fragments of red clay brick     | TP10A                         |
| 0.4                                                                                                                                                                                                                                                                                | 0.5               | CLAY. Stiff, orange clay                                                                                 | TP10B                         |
|                                                                                                                                                                                                                                                                                    |                   | <p style="text-align: center;"><u>End of trial pit 0.5 m</u><br/><i>Terminated in natural ground</i></p> |                               |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.5</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                          |                               |

|                                                                                                                                                                                                                                                                                    |                   |                                                                                                          |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                   |                   | Project: Bridge Road North, Wrexham.                                                                     | Trial Pit:<br><b>TP11</b>  |
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                       | Logged by:<br>SOB | Client: JCP                                                                                              | Project ID:<br><b>5125</b> |
| Strata:                                                                                                                                                                                                                                                                            |                   |                                                                                                          | <b>Sheet 1 of 1</b>        |
| Depth (m)                                                                                                                                                                                                                                                                          |                   | Description                                                                                              | Samples                    |
| From                                                                                                                                                                                                                                                                               | To                |                                                                                                          |                            |
| 0                                                                                                                                                                                                                                                                                  | 0.4               | CLAY. Firm, brown sandy clay. With MADE GROUND gravels fine, sub-angular fragments of red clay brick     | TP10A                      |
| 0.4                                                                                                                                                                                                                                                                                | 0.5               | CLAY. Stiff, orange clay                                                                                 | TP10B                      |
|                                                                                                                                                                                                                                                                                    |                   | <p style="text-align: center;"><u>End of trial pit 0.5 m</u><br/><i>Terminated in natural ground</i></p> |                            |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.5</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                          |                            |

|                                                                                                                                                                                                                                                                                    |                   |                                                                                                          |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|-------------------------------|
|                                                                                                                                                                                                   |                   | Project: Bridge Road North,<br>Wrexham.                                                                  | Trial Pit:<br><br><b>TP12</b> |
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                       | Logged by:<br>SOB | Client: JCP                                                                                              | Project ID:<br><b>5125</b>    |
| Strata:                                                                                                                                                                                                                                                                            |                   |                                                                                                          | <b>Sheet 1 of 1</b>           |
| Depth (m)                                                                                                                                                                                                                                                                          |                   | Description                                                                                              | Samples                       |
| From                                                                                                                                                                                                                                                                               | To                |                                                                                                          |                               |
| 0                                                                                                                                                                                                                                                                                  | 0.2               | CLAY. Firm, orange-brown, slightly sandy clay.                                                           | TP12A                         |
| 0.2                                                                                                                                                                                                                                                                                | 0.4               | CLAY. Firm, orange sandy clay with firm, grey sandy CLAY                                                 | TP12B                         |
|                                                                                                                                                                                                                                                                                    |                   | <p style="text-align: center;"><u>End of trial pit 0.4 m</u><br/><i>Terminated in natural ground</i></p> |                               |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.4</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                          |                               |

|                                                                                                                                                                                                   |                   | Project: Bridge Road North,<br>Wrexham.                                                                                                                   | Trial Pit:<br><br><b>TP13</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                       | Logged by:<br>SOB | Client: JCP                                                                                                                                               | Project ID:<br><b>5125</b>    |
| <b>Strata:</b>                                                                                                                                                                                                                                                                     |                   |                                                                                                                                                           | <b>Sheet 1 of 1</b>           |
| Depth (m)                                                                                                                                                                                                                                                                          |                   | Description                                                                                                                                               | Samples                       |
| From                                                                                                                                                                                                                                                                               | To                |                                                                                                                                                           |                               |
| 0                                                                                                                                                                                                                                                                                  | 0.3               | CLAY. Loose, brown, sandy clay.                                                                                                                           |                               |
| 0.3                                                                                                                                                                                                                                                                                | 0.4               | MADE GROUND. Stiff brown clay. Loose slightly silty, gravelly, sand. Gravels fine to medium, angular to sub-angular fragments of clay brick and limestone | TP13A                         |
| 0.4                                                                                                                                                                                                                                                                                | 0.5               | CLAY. Stiff, orange sandy clay                                                                                                                            | TP13B                         |
| <p style="text-align: center;"><u>End of trial pit 0.5 m</u><br/><i>Terminated in natural ground</i></p>                                                                                                                                                                           |                   |                                                                                                                                                           |                               |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.5</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                                                                           |                               |

|                                                                                                                                                                                                                                                                                    |                   |                                                                                                          |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|-------------------------------|
|                                                                                                                                                                                                   |                   | Project: Bridge Road North,<br>Wrexham.                                                                  | Trial Pit:<br><br><b>TP14</b> |
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                       | Logged by:<br>SOB | Client: JCP                                                                                              | Project ID:<br><b>5125</b>    |
| Strata:                                                                                                                                                                                                                                                                            |                   |                                                                                                          | <b>Sheet 1 of 1</b>           |
| Depth (m)                                                                                                                                                                                                                                                                          |                   | Description                                                                                              | Samples                       |
| From                                                                                                                                                                                                                                                                               | To                |                                                                                                          |                               |
| 0                                                                                                                                                                                                                                                                                  | 0.2               | CLAY. Firm, orange-brown, slightly sandy clay.                                                           | TP14A                         |
| 0.2                                                                                                                                                                                                                                                                                | 0.4               | CLAY. Firm, yellowish-brown sandy clay with firm, grey sandy CLAY                                        | TP14B                         |
|                                                                                                                                                                                                                                                                                    |                   | <p style="text-align: center;"><u>End of trial pit 0.4 m</u><br/><i>Terminated in natural ground</i></p> |                               |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.4</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                          |                               |

|                                                                                                                                                                                                                                                                                    |                   |                                                                                                          |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                   |                   | Project: Bridge Road North, Wrexham.                                                                     | Trial Pit:<br><b>TP15</b>  |
| Excavation date:<br>09.05.22                                                                                                                                                                                                                                                       | Logged by:<br>SOB | Client: JCP                                                                                              | Project ID:<br><b>5125</b> |
| Strata:                                                                                                                                                                                                                                                                            |                   |                                                                                                          | <b>Sheet 1 of 1</b>        |
| Depth (m)                                                                                                                                                                                                                                                                          |                   | Description                                                                                              | Samples                    |
| From                                                                                                                                                                                                                                                                               | To                |                                                                                                          |                            |
| 0                                                                                                                                                                                                                                                                                  | 0.2               | CLAY. Firm, orange-brown, slightly sandy clay.                                                           | TP14A                      |
| 0.2                                                                                                                                                                                                                                                                                | 0.4               | CLAY. Firm, yellowish-brown sandy clay with firm, grey sandy CLAY                                        | TP14B                      |
|                                                                                                                                                                                                                                                                                    |                   | <p style="text-align: center;"><u>End of trial pit 0.4 m</u><br/><i>Terminated in natural ground</i></p> |                            |
| <p><b>Excavated by</b> - 9 ton tracked excavator.</p> <p><b>Plan Dimensions of Pit (length x width x depth)</b> – 1.0 x 1.0 x 0.4</p> <p><b>Groundwater</b> – none</p> <p><b>Stability</b> – Stable, sides remained vertical when excavated.</p> <p><b>Contamination</b> –none</p> |                   |                                                                                                          |                            |

## APPENDIX 4

### Lab Report Certificate



Environmental  
Chemistry

## Certificate of Analysis

**Client:** Caulmert Limited

**Project:** 22051393

**Quote:** BEC220324969 V1.1

**Project Ref:** 5125

**Site:** Bridge Road North, Wrexham Industrial Est

**Contact:** Sean O'Brien

**Address:** Intec  
Ffordd Y Parc  
Parc Menai  
Bangor  
LL57 4FG

**E-Mail:** SeanO'Brien@caulmert.com

**Phone:** 07585 975337

**No. Samples Received:** 11

**Date Received:** 19/05/2022

**Analysis Date:** 10/06/2022

**Date Issued:** 10/06/2022

**Report Type:** Final Version 01

This report supercedes any versions previously issued by the laboratory

Account Manager  
Anna Jasjulevica

Authorised by the Operations Manager  
Becky Batham



Client: Caulmurt Limited  
Project Name: 5125  
Project No: 22051393  
Date Issued: 10/06/2022

#### Samples Analysed

| <u>Sample Reference</u> | <u>Text ID</u> | <u>Sample Date</u>  | <u>Sample Type</u> |
|-------------------------|----------------|---------------------|--------------------|
| TP2 B                   | 22051393-001   | 09/05/2022 00:00:00 | SOLID              |
| TP3 A                   | 22051393-002   | 09/05/2022 00:00:00 | SOLID              |
| TP3 B                   | 22051393-003   | 09/05/2022 00:00:00 | SOLID              |
| TP4 A                   | 22051393-004   | 09/05/2022 00:00:00 | SOLID              |
| TP4 B                   | 22051393-005   | 09/05/2022 00:00:00 | SOLID              |
| TP8 A                   | 22051393-006   | 09/05/2022 00:00:00 | SOLID              |
| TP8 B                   | 22051393-007   | 09/05/2022 00:00:00 | SOLID              |
| TP11 A                  | 22051393-008   | 09/05/2022 00:00:00 | SOLID              |
| TP11 B                  | 22051393-009   | 09/05/2022 00:00:00 | SOLID              |
| TP13 B                  | 22051393-010   | 09/05/2022 00:00:00 | SOLID              |
| TP14 B                  | 22051393-011   | 09/05/2022 00:00:00 | SOLID              |



## Analysis Results

Client: Caulmert Limited  
Project Name: Bridge Road North, Wrexham Industrial Est  
Project No: 22051393  
Date Issued: 10/06/2022



| Analysis                                | Method Code    | MDL  | Units    | Accred. | Sample ID     | 001        | 002        | 003        | 004        | 005        | 006        | 007        |
|-----------------------------------------|----------------|------|----------|---------|---------------|------------|------------|------------|------------|------------|------------|------------|
|                                         |                |      |          |         | Customer ID   | TP2 B      | TP3 A      | TP3 B      | TP4 A      | TP4 B      | TP8 A      | TP8 B      |
|                                         |                |      |          |         | Sample Type   | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      |
|                                         |                |      |          |         | Sampling Date | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 |
| Ammoniacal Nitrogen (Exchangeable) as N | AMMAR          | 0.5  | mg/kg^   | UM      |               | <0.59      | <0.59      | <0.61      | <0.58      | <0.57      | 0.90       | <0.6       |
| >C6-C7 Aliphatic HS_1D_AL               | GROHSA/BTEXHSA | 0.2  | mg/kg^   | UM      |               | <0.236     | <0.238     | <0.246     | <0.233     | <0.227     | <0.243     | <0.238     |
| >C7-C8 Aliphatic HS_1D_AL               | GROHSA/BTEXHSA | 0.2  | mg/kg^   | UM      |               | <0.236     | <0.238     | <0.246     | <0.233     | <0.227     | <0.243     | <0.238     |
| >C7-C8 Aromatic HS_1D_AR                | GROHSA/BTEXHSA | 0.01 | mg/kg^   | UM      |               | <0.012     | <0.012     | <0.012     | <0.012     | <0.011     | <0.012     | <0.012     |
| >C8-C10 Aliphatic HS_1D_AL              | GROHSA/BTEXHSA | 0.2  | mg/kg^   | UM      |               | <0.236     | <0.238     | <0.246     | <0.233     | <0.227     | <0.243     | <0.238     |
| >C8-C10 Aromatic HS_1D_AR               | GROHSA/BTEXHSA | 0.04 | mg/kg^   | UM      |               | <0.048     | <0.048     | <0.049     | <0.047     | <0.045     | <0.049     | <0.048     |
| C5-C6 Aliphatic HS_1D_AL                | GROHSA/BTEXHSA | 0.2  | mg/kg^   | UM      |               | <0.236     | <0.238     | <0.246     | <0.233     | <0.227     | <0.243     | <0.238     |
| C5-C7 Aromatic HS_1D_AR                 | GROHSA/BTEXHSA | 0.01 | mg/kg^   | UM      |               | <0.012     | <0.012     | <0.012     | <0.012     | <0.011     | <0.012     | <0.012     |
| Total GRO C5-C10 HS_1D_Total            | GROHSA/BTEXHSA | 0.2  | mg/kg^   | UM      |               | <0.236     | <0.238     | <0.246     | <0.233     | <0.227     | <0.243     | <0.238     |
| pH (2.5:1 extraction)                   | PHSOIL         | 1    | pH units | UM      |               | 8.7        | 8.1        | 8.0        | 9.1        | 8.8        | 8.6        | 8.7        |
| Chromium (VI) as Cr                     | KONENS         | 0.1  | mg/kg^   | N       |               | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Soil Organic Matter                     | WSLM59         | 0.04 | % m/m^   | U       |               | 0.65       | 2.62       | 0.78       | 0.47       | 0.51       | 1.35       | 0.75       |
| Arsenic as As                           | ICPMSS         | 0.3  | mg/kg^   | UM      |               | 10.2       | 10.9       | 8.4        | 7.1        | 8.2        | 8.5        | 11.3       |
| Cadmium as Cd                           | ICPMSS         | 0.2  | mg/kg^   | UM      |               | 0.3        | 0.3        | <0.2       | <0.2       | 0.2        | 0.4        | 0.3        |
| Copper as Cu                            | ICPMSS         | 1.6  | mg/kg^   | UM      |               | 24.0       | 28.7       | 21.1       | 17.4       | 19.4       | 19.6       | 24.2       |
| Lead as Pb                              | ICPMSS         | 0.7  | mg/kg^   | UM      |               | 33.4       | 55.6       | 17.6       | 17.8       | 15.9       | 37.9       | 32.1       |
| Mercury as Hg                           | ICPMSS         | 0.5  | mg/kg^   | UM      |               | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       |
| Nickel as Ni                            | ICPMSS         | 2    | mg/kg^   | UM      |               | 39.6       | 27.7       | 39.5       | 27.3       | 33.0       | 28.9       | 37.8       |
| Selenium as Se                          | ICPMSS         | 0.5  | mg/kg^   | UM      |               | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       |



Client: Caulmert Limited  
Project Name: Bridge Road North, Wrexham Industrial Est  
Project No: 22051393  
Date Issued: 10/06/2022



## Analysis Results

| Analysis                                | Method Code    | MDL  | Units    | Accred. | Sample ID     | 008        | 009        | 010        | 011        |
|-----------------------------------------|----------------|------|----------|---------|---------------|------------|------------|------------|------------|
|                                         |                |      |          |         | Customer ID   | TP11 A     | TP11 B     | TP13 B     | TP14 B     |
|                                         |                |      |          |         | Sample Type   | SOLID      | SOLID      | SOLID      | SOLID      |
|                                         |                |      |          |         | Sampling Date | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 |
|                                         |                |      |          |         |               |            |            |            |            |
| Ammoniacal Nitrogen (Exchangeable) as N | AMMAR          | 0.5  | mg/kg^   | UM      |               | <0.61      | <0.61      | <0.64      | <0.61      |
| >C6-C7 Aliphatic HS_1D_AL               | GROHSA/BTEXHSA | 0.2  | mg/kg^   | UM      |               | <0.246     | <0.242     | <0.255     | <0.243     |
| >C7-C8 Aliphatic HS_1D_AL               | GROHSA/BTEXHSA | 0.2  | mg/kg^   | UM      |               | <0.246     | <0.242     | <0.255     | <0.243     |
| >C7-C8 Aromatic HS_1D_AR                | GROHSA/BTEXHSA | 0.01 | mg/kg^   | UM      |               | <0.012     | <0.012     | <0.013     | <0.012     |
| >C8-C10 Aliphatic HS_1D_AL              | GROHSA/BTEXHSA | 0.2  | mg/kg^   | UM      |               | <0.246     | <0.242     | <0.255     | <0.243     |
| >C8-C10 Aromatic HS_1D_AR               | GROHSA/BTEXHSA | 0.04 | mg/kg^   | UM      |               | <0.049     | <0.048     | <0.052     | <0.049     |
| C5-C6 Aliphatic HS_1D_AL                | GROHSA/BTEXHSA | 0.2  | mg/kg^   | UM      |               | <0.246     | <0.242     | <0.255     | <0.243     |
| C5-C7 Aromatic HS_1D_AR                 | GROHSA/BTEXHSA | 0.01 | mg/kg^   | UM      |               | <0.012     | <0.012     | <0.013     | <0.012     |
| Total GRO C5-C10 HS_1D_Total            | GROHSA/BTEXHSA | 0.2  | mg/kg^   | UM      |               | <0.246     | <0.242     | <0.255     | <0.243     |
| pH (2.5:1 extraction)                   | PHSOIL         | 1    | pH units | UM      |               | 9.0        | 8.9        | 8.7        | 8.4        |
| Chromium (VI) as Cr                     | KONENS         | 0.1  | mg/kg^   | N       |               | <0.1       | <0.1       | <0.1       | <0.1       |
| Soil Organic Matter                     | WSLM59         | 0.04 | % m/m^   | U       |               | 0.53       | 0.48       | 0.56       | 0.52       |
| Arsenic as As                           | ICPMSS         | 0.3  | mg/kg^   | UM      |               | 11.2       | 9.7        | 15.2       | 10.8       |
| Cadmium as Cd                           | ICPMSS         | 0.2  | mg/kg^   | UM      |               | 0.3        | 0.3        | 0.2        | <0.2       |
| Copper as Cu                            | ICPMSS         | 1.6  | mg/kg^   | UM      |               | 25.0       | 23.5       | 17.2       | 22.2       |
| Lead as Pb                              | ICPMSS         | 0.7  | mg/kg^   | UM      |               | 16.0       | 14.4       | 31.8       | 19.3       |
| Mercury as Hg                           | ICPMSS         | 0.5  | mg/kg^   | UM      |               | <0.5       | <0.5       | <0.5       | <0.5       |
| Nickel as Ni                            | ICPMSS         | 2    | mg/kg^   | UM      |               | 42.6       | 38.8       | 47.2       | 48.2       |
| Selenium as Se                          | ICPMSS         | 0.5  | mg/kg^   | UM      |               | <0.5       | <0.5       | <0.5       | <0.5       |



## Analysis Results

Client: Caulmert Limited  
Project Name: Bridge Road North, Wrexham Industrial Est  
Project No: 22051393  
Date Issued: 10/06/2022



| Analysis                     | Method Code | MDL  | Units  | Accred. | Sample ID     | 001        | 002        | 003        | 004        | 005        | 006        | 007        |
|------------------------------|-------------|------|--------|---------|---------------|------------|------------|------------|------------|------------|------------|------------|
|                              |             |      |        |         | Customer ID   | TP2 B      | TP3 A      | TP3 B      | TP4 A      | TP4 B      | TP8 A      | TP8 B      |
|                              |             |      |        |         | Sample Type   | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      |
|                              |             |      |        |         | Sampling Date | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 |
|                              |             |      |        |         |               |            |            |            |            |            |            |            |
| Total Chromium as Cr         | ICPMSS      | 1.2  | mg/kg^ | UM      |               | 34.0       | 22.5       | 34.4       | 23.6       | 27.5       | 22.1       | 29.8       |
| Vanadium as V                | ICPMSS      | 0.6  | mg/kg^ | N       |               | 35.5       | 28.4       | 36.0       | 25.1       | 28.9       | 24.6       | 30.1       |
| Zinc as Zn                   | ICPMSS      | 16   | mg/kg^ | UM      |               | 104.8      | 70.8       | 54.5       | 54.5       | 60.5       | 103.1      | 83.0       |
| Acid Soluble Sulphate as SO4 | ICPACIDS    | 20   | mg/kg^ | UM      |               | 411        | 1520       | 239        | 372        | 561        | 437        | 289        |
| Benzene<br>HS_ID_AR          | BTEXHSA     | 10   | µg/kg^ | UM      |               | <12        | <12        | <12        | <12        | <11        | <12        | <12        |
| Ethylbenzene<br>HS_ID_AR     | BTEXHSA     | 10   | µg/kg^ | UM      |               | <12        | <12        | <12        | <12        | <11        | <12        | <12        |
| m/p-Xylene<br>HS_ID_AR       | BTEXHSA     | 20   | µg/kg^ | UM      |               | <24        | <24        | <25        | <23        | <23        | <24        | <24        |
| o-Xylene<br>HS_ID_AR         | BTEXHSA     | 10   | µg/kg^ | UM      |               | <12        | <12        | <12        | <12        | <11        | <12        | <12        |
| Toluene<br>HS_ID_AR          | BTEXHSA     | 10   | µg/kg^ | UM      |               | <12        | <12        | <12        | <12        | <11        | <12        | <12        |
| Acenaphthene                 | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 0.31       | <0.10      |
| Acenaphthylene               | PAHMSUS     | 0.08 | mg/kg^ | U       |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 0.10       | <0.10      |
| Anthracene                   | PAHMSUS     | 0.08 | mg/kg^ | U       |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 2.11       | <0.10      |
| Benzo[a]anthracene           | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 9.46       | <0.10      |
| Benzo[a]pyrene               | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 9.69       | <0.10      |
| Benzo[b]fluoranthene         | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 10.7       | <0.10      |
| Benzo[g,h,i]perylene         | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 4.24       | <0.10      |
| Benzo[k]fluoranthene         | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 3.95       | <0.10      |
| Chrysene                     | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 8.41       | <0.10      |
| Dibenzo[a,h]anthracene       | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 1.12       | <0.10      |



## Analysis Results

Client: Caulmert Limited  
Project Name: Bridge Road North, Wrexham Industrial Est  
Project No: 22051393  
Date Issued: 10/06/2022



| Analysis                     | Method Code | MDL  | Units  | Accred. | Sample ID     | 008        | 009        | 010        | 011        |
|------------------------------|-------------|------|--------|---------|---------------|------------|------------|------------|------------|
|                              |             |      |        |         | Customer ID   | TP11 A     | TP11 B     | TP13 B     | TP14 B     |
|                              |             |      |        |         | Sample Type   | SOLID      | SOLID      | SOLID      | SOLID      |
|                              |             |      |        |         | Sampling Date | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 |
|                              |             |      |        |         |               |            |            |            |            |
| Total Chromium as Cr         | ICPMSS      | 1.2  | mg/kg^ | UM      |               | 43.5       | 38.4       | 49.0       | 45.0       |
| Vanadium as V                | ICPMSS      | 0.6  | mg/kg^ | N       |               | 46.2       | 39.9       | 53.7       | 46.5       |
| Zinc as Zn                   | ICPMSS      | 16   | mg/kg^ | UM      |               | 68.2       | 65.1       | 82.0       | 70.0       |
| Acid Soluble Sulphate as SO4 | ICPACIDS    | 20   | mg/kg^ | UM      |               | 269        | 307        | 124        | 139        |
| Benzene<br>HS_1D_AR          | BTEXHSA     | 10   | µg/kg^ | UM      |               | <12        | <12        | <13        | <12        |
| Ethylbenzene<br>HS_1D_AR     | BTEXHSA     | 10   | µg/kg^ | UM      |               | <12        | <12        | <13        | <12        |
| m/p-Xylene<br>HS_1D_AR       | BTEXHSA     | 20   | µg/kg^ | UM      |               | <25        | <24        | <26        | <24        |
| o-Xylene<br>HS_1D_AR         | BTEXHSA     | 10   | µg/kg^ | UM      |               | <12        | <12        | <13        | <12        |
| Toluene<br>HS_1D_AR          | BTEXHSA     | 10   | µg/kg^ | UM      |               | <12        | <12        | <13        | <12        |
| Acenaphthene                 | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Acenaphthylene               | PAHMSUS     | 0.08 | mg/kg^ | U       |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Anthracene                   | PAHMSUS     | 0.08 | mg/kg^ | U       |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Benzo[a]anthracene           | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Benzo[a]pyrene               | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Benzo[b]fluoranthene         | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Benzo[g,h,i]perylene         | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Benzo[k]fluoranthene         | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Chrysene                     | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Dibenzo[a,h]anthracene       | PAHMSUS     | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |



## Analysis Results

Client: Caulmert Limited  
Project Name: Bridge Road North, Wrexham Industrial Est  
Project No: 22051393  
Date Issued: 10/06/2022



| Analysis                                     | Method Code          | MDL  | Units  | Accred. | Sample ID     | 001        | 002        | 003        | 004        | 005        | 006        | 007        |
|----------------------------------------------|----------------------|------|--------|---------|---------------|------------|------------|------------|------------|------------|------------|------------|
|                                              |                      |      |        |         | Customer ID   | TP2 B      | TP3 A      | TP3 B      | TP4 A      | TP4 B      | TP8 A      | TP8 B      |
|                                              |                      |      |        |         | Sample Type   | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      |
|                                              |                      |      |        |         | Sampling Date | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 |
|                                              |                      |      |        |         |               |            |            |            |            |            |            |            |
| Fluoranthene                                 | PAHMSUS              | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 15.0       | <0.10      |
| Fluorene                                     | PAHMSUS              | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 0.19       | <0.10      |
| Indeno[1,2,3-cd]pyrene                       | PAHMSUS              | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 5.65       | <0.10      |
| Naphthalene                                  | PAHMSUS              | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 0.33       | <0.10      |
| Phenanthrene                                 | PAHMSUS              | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 4.58       | <0.10      |
| Pyrene                                       | PAHMSUS              | 0.08 | mg/kg^ | UM      |               | <0.09      | <0.10      | <0.10      | <0.09      | <0.09      | 13.5       | <0.10      |
| Total PAH 16                                 | PAHMSUS              | 1.28 | mg/kg^ | U       |               | <1.51      | <1.52      | <1.57      | <1.49      | <1.45      | 89.3       | <1.52      |
| >C10-C12 (Aliphatic)<br>EH_CU_1D_AL          | TPHFIDUS (Aliphatic) | 4    | mg/kg^ | U       |               | <4.73      | <4.75      | <4.91      | <4.67      | <4.54      | <4.87      | <4.76      |
| >C12-C16 (Aliphatic)<br>EH_CU_1D_AL          | TPHFIDUS (Aliphatic) | 4    | mg/kg^ | U       |               | <4.73      | <4.75      | <4.91      | <4.67      | <4.54      | <4.87      | <4.76      |
| >C16-C21 (Aliphatic)<br>EH_CU_1D_AL          | TPHFIDUS (Aliphatic) | 4    | mg/kg^ | U       |               | <4.73      | <4.75      | <4.91      | <4.67      | <4.54      | 20.7       | <4.76      |
| >C21-C35 (Aliphatic)<br>EH_CU_1D_AL          | TPHFIDUS (Aliphatic) | 10   | mg/kg^ | U       |               | <11.8      | <11.9      | <12.3      | <11.7      | <11.4      | 58.2       | <11.9      |
| Total TPH >C8-C40 (Aliphatic)<br>EH_CU_1D_AL | TPHFIDUS (Aliphatic) | 20   | mg/kg^ | U       |               | <23.6      | <23.8      | <24.6      | <23.3      | <22.7      | 92.4       | <23.8      |
| >C10-C12 (Aromatic)<br>EH_CU_1D_AR           | TPHFIDUS (Aromatic)  | 4    | mg/kg^ | U       |               | <4.73      | <4.75      | <4.91      | <4.67      | <4.54      | <4.87      | <4.76      |
| >C12-C16 (Aromatic)<br>EH_CU_1D_AR           | TPHFIDUS (Aromatic)  | 4    | mg/kg^ | U       |               | <4.73      | <4.75      | <4.91      | <4.67      | <4.54      | <4.87      | <4.76      |
| >C16-C21 (Aromatic)<br>EH_CU_1D_AR           | TPHFIDUS (Aromatic)  | 4    | mg/kg^ | U       |               | 5.49       | <4.75      | <4.91      | <4.67      | <4.54      | 105        | <4.76      |
| >C21-C35 (Aromatic)<br>EH_CU_1D_AR           | TPHFIDUS (Aromatic)  | 10   | mg/kg^ | U       |               | <11.8      | <11.9      | <12.3      | <11.7      | <11.4      | 495        | 15.5       |
| Total TPH >C8-C40 (Aromatic)<br>EH_CU_1D_AR  | TPHFIDUS (Aromatic)  | 20   | mg/kg^ | U       |               | <23.6      | <23.8      | <24.6      | <23.3      | <22.7      | 682        | 25.3       |
| Total Moisture at 35°C                       | CLANDPREP            | 0.1  | %      | N       |               | 15.4       | 15.8       | 18.6       | 14.3       | 11.9       | 17.8       | 15.9       |
| Description of Solid Material                | CLANDPREP            |      | -      | N       |               | CLAY       | SILT       | CLAY       | CLAY       | CLAY       | CLAY       | CLAY       |



## Analysis Results

Client: Caulmert Limited  
Project Name: Bridge Road North, Wrexham Industrial Est  
Project No: 22051393  
Date Issued: 10/06/2022



| Analysis                                     | Method Code          | MDL  | Units  | Accred. | Sample ID     | 008        | 009        | 010        | 011        |
|----------------------------------------------|----------------------|------|--------|---------|---------------|------------|------------|------------|------------|
|                                              |                      |      |        |         | Customer ID   | TP11 A     | TP11 B     | TP13 B     | TP14 B     |
|                                              |                      |      |        |         | Sample Type   | SOLID      | SOLID      | SOLID      | SOLID      |
|                                              |                      |      |        |         | Sampling Date | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 |
|                                              |                      |      |        |         |               |            |            |            |            |
| Fluoranthene                                 | PAHMSUS              | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Fluorene                                     | PAHMSUS              | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Indeno[1,2,3-cd]pyrene                       | PAHMSUS              | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Naphthalene                                  | PAHMSUS              | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Phenanthrene                                 | PAHMSUS              | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Pyrene                                       | PAHMSUS              | 0.08 | mg/kg^ | UM      |               | <0.10      | <0.10      | <0.10      | <0.10      |
| Total PAH 16                                 | PAHMSUS              | 1.28 | mg/kg^ | U       |               | <1.57      | <1.55      | <1.63      | <1.56      |
| >C10-C12 (Aliphatic)<br>EH_CU_1D_AL          | TPHFIDUS (Aliphatic) | 4    | mg/kg^ | U       |               | <4.91      | <4.84      | <5.11      | <4.87      |
| >C12-C16 (Aliphatic)<br>EH_CU_1D_AL          | TPHFIDUS (Aliphatic) | 4    | mg/kg^ | U       |               | <4.91      | <4.84      | <5.11      | <4.87      |
| >C16-C21 (Aliphatic)<br>EH_CU_1D_AL          | TPHFIDUS (Aliphatic) | 4    | mg/kg^ | U       |               | <4.91      | <4.84      | <5.11      | <4.87      |
| >C21-C35 (Aliphatic)<br>EH_CU_1D_AL          | TPHFIDUS (Aliphatic) | 10   | mg/kg^ | U       |               | <12.3      | <12.1      | <12.8      | <12.2      |
| Total TPH >C8-C40 (Aliphatic)<br>EH_CU_1D_AL | TPHFIDUS (Aliphatic) | 20   | mg/kg^ | U       |               | <24.6      | <24.2      | <25.5      | <24.3      |
| >C10-C12 (Aromatic)<br>EH_CU_1D_AR           | TPHFIDUS (Aromatic)  | 4    | mg/kg^ | U       |               | <4.91      | <4.84      | <5.11      | <4.87      |
| >C12-C16 (Aromatic)<br>EH_CU_1D_AR           | TPHFIDUS (Aromatic)  | 4    | mg/kg^ | U       |               | <4.91      | <4.84      | <5.11      | <4.87      |
| >C16-C21 (Aromatic)<br>EH_CU_1D_AR           | TPHFIDUS (Aromatic)  | 4    | mg/kg^ | U       |               | <4.91      | <4.84      | <5.11      | <4.87      |
| >C21-C35 (Aromatic)<br>EH_CU_1D_AR           | TPHFIDUS (Aromatic)  | 10   | mg/kg^ | U       |               | <12.3      | 13.7       | <12.8      | <12.2      |
| Total TPH >C8-C40 (Aromatic)<br>EH_CU_1D_AR  | TPHFIDUS (Aromatic)  | 20   | mg/kg^ | U       |               | <24.6      | <24.2      | <25.5      | <24.3      |
| Total Moisture at 35°C                       | CLANDPREP            | 0.1  | %      | N       |               | 18.6       | 17.4       | 21.7       | 17.8       |
| Description of Solid Material                | CLANDPREP            |      | -      | N       |               | CLAY       | CLAY       | CLAY       | CLAY       |



## Analysis Results

Client: Caulmert Limited  
 Project Name: Bridge Road North, Wrexham Industrial Est  
 Project No: 22051393  
 Date Issued: 10/06/2022



|                         |             |     |       |         | Sample ID     | 001        | 002        | 003        | 004        | 005        | 006        | 007        |
|-------------------------|-------------|-----|-------|---------|---------------|------------|------------|------------|------------|------------|------------|------------|
|                         |             |     |       |         | Customer ID   | TP2 B      | TP3 A      | TP3 B      | TP4 A      | TP4 B      | TP8 A      | TP8 B      |
|                         |             |     |       |         | Sample Type   | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      | SOLID      |
|                         |             |     |       |         | Sampling Date | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 |
| Analysis                | Method Code | MDL | Units | Accred. |               |            |            |            |            |            |            |            |
| Asbestos Identification | SUB002      |     | -     | N       |               | NAIIS      | NAIIS      | NAIIS      | NAIIS      | NAIIS      | NAIIS      | NAIIS      |



## Analysis Results

Client: Caulmert Limited  
 Project Name: Bridge Road North, Wrexham Industrial Est  
 Project No: 22051393  
 Date Issued: 10/06/2022



|                         |             |     |       |         | Sample ID     | 008        | 009        | 010        | 011        |
|-------------------------|-------------|-----|-------|---------|---------------|------------|------------|------------|------------|
|                         |             |     |       |         | Customer ID   | TP11 A     | TP11 B     | TP13 B     | TP14 B     |
|                         |             |     |       |         | Sample Type   | SOLID      | SOLID      | SOLID      | SOLID      |
|                         |             |     |       |         | Sampling Date | 09/05/2022 | 09/05/2022 | 09/05/2022 | 09/05/2022 |
| Analysis                | Method Code | MDL | Units | Accred. |               |            |            |            |            |
| Asbestos Identification | SUB002      |     | -     | N       |               | NAIIS      | NAIIS      | NAIIS      | NAIIS      |

| <b>ASBESTOS ANALYSIS RESULTS</b><br><br><b>SOCOTEC Asbestos Limited Certificate of Analysis for Asbestos in Soils, Sediments and Aggregates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                         |            |                             |                                                                | <br>1089 |                       | Detection limit of Method SCI-ASB-020 is 0.001%<br><br>Sampling has been carried out by a third party |                  |                                 |   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------|------------|-----------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------|------------------|---------------------------------|--------------------------------------------------------------------------------------|--|
| <b>Client:</b> SOCOTEC Environmental Chemistry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                         |            |                             |                                                                | <b>Page 1 of 1</b>                                                                          |                       |                                                                                                       |                  |                                 |                                                                                      |  |
| <b>Address:</b> Etwall House, Bretby Business Park, Ashby Road, Burton upon Trent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                         |            |                             |                                                                | <b>Report No:</b> ANO-0503-25594                                                            |                       |                                                                                                       |                  |                                 |                                                                                      |  |
| <b>For the attention of:</b> SOCOTEC Environmental Chemistry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                                         |            |                             |                                                                | <b>Report Date:</b> 26/05/2022                                                              |                       |                                                                                                       |                  |                                 |                                                                                      |  |
| <b>Site Address:</b> Bridge Road North, Wrexham Industrial Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                         |            |                             |                                                                | <b>Project Number:</b> 22051393                                                             |                       |                                                                                                       |                  |                                 |                                                                                      |  |
| Sample Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sample Date | Sample Location & Matrix                | Test Date  | Total Sample Dry Weight (g) | Weight of <10mm Fraction (g)                                   | Asbestos(g) in >10mm                                                                        | Asbestos(g) in < 10mm | % Asbestos by weight of Total Dried Sample                                                            | Moisture Content | Asbestos Fibre Types Identified |                                                                                      |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 09/05/22    | TP2 B Soils                             | 26/05/2022 | 1165.2                      | 1165.2                                                         |                                                                                             |                       | Identification                                                                                        |                  | NAIIS - Stage 1                 |                                                                                      |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 09/05/22    | TP3 A Soils                             | 26/05/2022 | 886.5                       | 886.5                                                          |                                                                                             |                       | Identification                                                                                        |                  | NAIIS - Stage 1                 |                                                                                      |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 09/05/22    | TP3 B Soils                             | 26/05/2022 | 1056.1                      | 1056.1                                                         |                                                                                             |                       | Identification                                                                                        |                  | NAIIS - Stage 1                 |                                                                                      |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 09/05/22    | TP4 A Soils                             | 26/05/2022 | 878.4                       | 868.1                                                          |                                                                                             |                       | Identification                                                                                        |                  | NAIIS - Stage 1                 |                                                                                      |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 09/05/22    | TP4 B Soils                             | 26/05/2022 | 1099.3                      | 1046.6                                                         |                                                                                             |                       | Identification                                                                                        |                  | NAIIS - Stage 1                 |                                                                                      |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 09/05/22    | TP8 A Soils                             | 26/05/2022 | 1065.9                      | 1061.5                                                         |                                                                                             |                       | Identification                                                                                        |                  | NAIIS - Stage 1                 |                                                                                      |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 09/05/22    | TP8 B Soils                             | 26/05/2022 | 1020.9                      | 1001.7                                                         |                                                                                             |                       | Identification                                                                                        |                  | NAIIS - Stage 1                 |                                                                                      |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 09/05/22    | TP11 A Soils                            | 26/05/2022 | 1054.7                      | 1031.2                                                         |                                                                                             |                       | Identification                                                                                        |                  | NAIIS - Stage 1                 |                                                                                      |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 09/05/22    | TP11 B Soils                            | 26/05/2022 | 1010.4                      | 1002.6                                                         |                                                                                             |                       | Identification                                                                                        |                  | NAIIS - Stage 1                 |                                                                                      |  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 09/05/22    | TP13 B Soils                            | 26/05/2022 | 900.4                       | 892.8                                                          |                                                                                             |                       | Identification                                                                                        |                  | NAIIS - Stage 1                 |                                                                                      |  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 09/05/22    | TP14 A Soils                            | 26/05/2022 | 1117.3                      |                                                                |                                                                                             |                       | Identification                                                                                        |                  | NAIIS - Stage 1                 |                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                         |            |                             |                                                                |                                                                                             |                       |                                                                                                       |                  |                                 |                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                         |            |                             |                                                                |                                                                                             |                       |                                                                                                       |                  |                                 |                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                         |            |                             |                                                                |                                                                                             |                       |                                                                                                       |                  |                                 |                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                         |            |                             |                                                                |                                                                                             |                       |                                                                                                       |                  |                                 |                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                         |            |                             |                                                                |                                                                                             |                       |                                                                                                       |                  |                                 |                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                         |            |                             |                                                                |                                                                                             |                       |                                                                                                       |                  |                                 |                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                         |            |                             |                                                                |                                                                                             |                       |                                                                                                       |                  |                                 |                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                         |            |                             |                                                                |                                                                                             |                       |                                                                                                       |                  |                                 |                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                         |            |                             |                                                                |                                                                                             |                       |                                                                                                       |                  |                                 |                                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                         |            |                             |                                                                |                                                                                             |                       |                                                                                                       |                  |                                 |                                                                                      |  |
| <b>Keys</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | NAACR = Not Analysed at Clients Request |            |                             | NAIIS = No Asbestos Identified in Sample (Identification Only) |                                                                                             |                       |                                                                                                       | Name:            | Joshua Turner                   | Authorised Signatory:                                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             | * visible to naked eye                  |            |                             | NADIS = No Asbestos Detected in Sample (ID & Quant Only)       |                                                                                             |                       |                                                                                                       | Position:        | Lab Technician                  |  |  |
| The sample analysis for the above results was carried out using the procedures detailed in SOCOTEC Asbestos Limited in house method (SCI-ASB-020) based on EA document Quantification of asbestos in soil and associated materials - Draft 2017. Fibre identification was carried out using SOCOTEC Asbestos Limited in house method of transmitted/polarised light microscopy and centre stop dispersion staining (SCI-ASB-007), based on HSE's HSG 248. The analysis of the < 10mm fraction for asbestos content only includes ACMs and fibres and does not discriminate non-asbestos fibres. All fibres are assumed, unless specified, to be amphiboles. All tests were carried out at a SOCOTEC Asbestos Ltd laboratory, Ashbourne House, Bretby Business Park, Ashby Road, Burton-upon-Trent, DE15 0YZ. UKAS Testing Number 1089. Recommended sample weight is 1kg-2kg, samples less than 1kg are classified as deviating samples. |             |                                         |            |                             |                                                                |                                                                                             |                       |                                                                                                       |                  |                                 |                                                                                      |  |



Client: Caulmurt Limited  
 Project Name: Bridge Road North, Wrexham Industrial Est  
 Project No: 22051393  
 Date Issued: 10/06/2022

Deviating Sample Report

| Sample Reference | Text ID      | Reported Name  | Incorrect Container | Incorrect Label | Headspace | Incorrect/No Preservative | No Sampling Date | Holding Time |
|------------------|--------------|----------------|---------------------|-----------------|-----------|---------------------------|------------------|--------------|
| TP2 B            | 22051393-001 | PHSOIL         |                     |                 |           |                           |                  | ✓            |
| TP2 B            | 22051393-001 | GROHSA/BTEXHSA |                     |                 |           |                           |                  | ✓            |
| TP2 B            | 22051393-001 | BTEXHSA        |                     |                 |           |                           |                  | ✓            |
| TP3 A            | 22051393-002 | PHSOIL         |                     |                 |           |                           |                  | ✓            |
| TP3 A            | 22051393-002 | GROHSA/BTEXHSA |                     |                 |           |                           |                  | ✓            |
| TP3 A            | 22051393-002 | BTEXHSA        |                     |                 |           |                           |                  | ✓            |
| TP3 B            | 22051393-003 | PHSOIL         |                     |                 |           |                           |                  | ✓            |
| TP3 B            | 22051393-003 | GROHSA/BTEXHSA |                     |                 |           |                           |                  | ✓            |
| TP3 B            | 22051393-003 | PAHMSUS        |                     |                 |           |                           |                  | ✓            |
| TP3 B            | 22051393-003 | BTEXHSA        |                     |                 |           |                           |                  | ✓            |
| TP4 A            | 22051393-004 | PHSOIL         |                     |                 |           |                           |                  | ✓            |
| TP4 A            | 22051393-004 | GROHSA/BTEXHSA |                     |                 |           |                           |                  | ✓            |
| TP4 A            | 22051393-004 | BTEXHSA        |                     |                 |           |                           |                  | ✓            |
| TP4 B            | 22051393-005 | PHSOIL         |                     |                 |           |                           |                  | ✓            |
| TP4 B            | 22051393-005 | GROHSA/BTEXHSA |                     |                 |           |                           |                  | ✓            |
| TP4 B            | 22051393-005 | PAHMSUS        |                     |                 |           |                           |                  | ✓            |
| TP4 B            | 22051393-005 | BTEXHSA        |                     |                 |           |                           |                  | ✓            |
| TP8 A            | 22051393-006 | PHSOIL         |                     |                 |           |                           |                  | ✓            |
| TP8 A            | 22051393-006 | GROHSA/BTEXHSA |                     |                 |           |                           |                  | ✓            |
| TP8 A            | 22051393-006 | BTEXHSA        |                     |                 |           |                           |                  | ✓            |
| TP8 B            | 22051393-007 | PHSOIL         |                     |                 |           |                           |                  | ✓            |
| TP8 B            | 22051393-007 | GROHSA/BTEXHSA |                     |                 |           |                           |                  | ✓            |
| TP8 B            | 22051393-007 | BTEXHSA        |                     |                 |           |                           |                  | ✓            |
| TP11 A           | 22051393-008 | PHSOIL         |                     |                 |           |                           |                  | ✓            |
| TP11 A           | 22051393-008 | GROHSA/BTEXHSA |                     |                 |           |                           |                  | ✓            |
| TP11 A           | 22051393-008 | BTEXHSA        |                     |                 |           |                           |                  | ✓            |
| TP11 B           | 22051393-009 | PHSOIL         |                     |                 |           |                           |                  | ✓            |
| TP11 B           | 22051393-009 | GROHSA/BTEXHSA |                     |                 |           |                           |                  | ✓            |



Client: Caulmurt Limited  
 Project Name: Bridge Road North, Wrexham Industrial Est  
 Project No: 22051393  
 Date Issued: 10/06/2022

|        |              |                       |  |  |  |  |  |   |
|--------|--------------|-----------------------|--|--|--|--|--|---|
| TP11 B | 22051393-009 | <b>BTEXHSA</b>        |  |  |  |  |  | ✓ |
| TP13 B | 22051393-010 | <b>PHSOIL</b>         |  |  |  |  |  | ✓ |
| TP13 B | 22051393-010 | <b>GROHSA/BTEXHSA</b> |  |  |  |  |  | ✓ |
| TP13 B | 22051393-010 | <b>BTEXHSA</b>        |  |  |  |  |  | ✓ |
| TP14 B | 22051393-011 | <b>PHSOIL</b>         |  |  |  |  |  | ✓ |
| TP14 B | 22051393-011 | <b>GROHSA/BTEXHSA</b> |  |  |  |  |  | ✓ |
| TP14 B | 22051393-011 | <b>BTEXHSA</b>        |  |  |  |  |  | ✓ |

### Analysis Method

#### Analysis

AMMAR  
 BTEXHSA  
 CLANDPREP  
 GROHSA/BTEXHSA  
 ICPACIDS  
 ICPMSS  
 KONENS  
 PAHMSUS  
 PHSOIL  
 SUB002  
 SUB020  
 TPHFIDUS (Aliphatic)  
 TPHFIDUS (Aromatic)  
 WSLM59

#### Analysis Type

INORGANIC  
 ORGANIC  
 PHYS  
 ORGANIC  
 METALS  
 METALS  
 INORGANIC  
 ORGANIC  
 INORGANIC  
 SUBCON  
 SUBCON  
 ORGANIC  
 ORGANIC  
 INORGANIC

#### Analysis Method

As Received  
 As Received  
 As Received  
 As Received  
 Air Dried & Ground  
 Air Dried & Ground  
 Air Dried & Ground  
 As Received  
 As Received  
  
 As Received  
 As Received  
 Air Dried & Ground



Client: Caulmurt Limited  
Project Name: Bridge Road North, Wrexham Industrial Est  
Project No: 22051393  
Date Issued: 10/06/2022

### Result Report Notes

Letters alongside results signify that the result has associated report notes.  
The report notes are as follows:

| <u>Letter</u> | <u>Note</u>                                                                                                                                                                                                                                                                                        |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A             | Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.                      |
| B             | The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.            |
| C             | Due to matrix interference the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.                                                                                                                               |
| D             | A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.                                                                                                                                                                                          |
| E             | Due to recoveries beyond our calibration range and following the maximum size of dilution allowed, the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.          |
| F             | Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only. |
| G             | The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.                                                                                                                         |

### HWOL Acronym Key

| <u>Acronym</u> | <u>Description</u>                                                    |
|----------------|-----------------------------------------------------------------------|
| HS             | Headspace Analysis                                                    |
| EH             | Extractable Hydrocarbons - i.e everything extracted by the solvent(s) |
| CU             | Clean up - e.g. by florisil, silica gel                               |
| 1D             | GC - Single coil gas chromatography                                   |
| Total          | Aliphatics & Aromatics                                                |
| AL             | Aliphatics only                                                       |
| AR             | Aromatics only                                                        |
| +              | Operator to indicate cumulative e.g. EH_CU+HS_1D_Total                |



Client: Caulmert Limited  
Project Name: Bridge Road North, Wrexham Industrial Est  
Project No: 22051393  
Date Issued: 10/06/2022

### Additional Information

This report refers to samples as received, and SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

In the accreditation column of analysis report the codes are as follows:

U = UKAS accredited analysis  
M = MCERT accredited analysis  
N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 35° c.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° c.

This report shall not be reproduced except in full and with approval from the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with \* are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following ( Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis  
NA = Sample is not amenable for the required analysis  
ND = Results cannot be determined

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the Subcontracted lab for information regarding any deviancies for this analysis.

## **End of Certificate of Analysis**

## Certificate of Analysis

**Report No.:** 22-20078-1

**Issue No.:** 1

**Date of Issue** 18/07/2022

Customer Details: SOCOTEC UK - Environmental Chemistry, P O Box 100, Bretby Business Park, Burton-on-Trent, DE15 0XD

Customer Contact: Louise Smith

Customer Order No.: B171569BEC

Customer Reference: 22051400

Quotation Reference: 220413/03

Description: 3 soil samples

Date Received: 23/05/2022

Date Started: 30/05/2022

Date Completed: 18/07/2022

Test Methods: Details available on request (refer to SOP code against relevant result/s)

Notes: None



**Approved By:** Matthew Hickson, Laboratory Manager

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.

This certificate shall not be reproduced except in full without the prior written approval of the laboratory.

Observations and interpretations are outside of the scope of UKAS accreditation.

Results reported herein relate only to the items supplied to the laboratory for testing.

Results on an Interim Report are not dry-weight corrected.

Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.

The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.



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## Results Summary

Report No.: 22-20078-1

Customer Reference: 22051400

Customer Order No: B171569BEC

|                    |              |              |              |
|--------------------|--------------|--------------|--------------|
| Customer Sample No | 22051400-001 | 22051400-002 | 22051400-003 |
| Customer Sample ID | TP2 A        | TP13 A       | TP14 A       |
| RPS Sample No      | 491459       | 491460       | 491461       |
| Sample Type        | SOIL         | SOIL         | SOIL         |
| Sampling Date      | 09/05/2022   | 09/05/2022   | 09/05/2022   |

| Determinand                                       | CAS No     | Codes | SOP      | Units    | RL   |               |                       |                       |
|---------------------------------------------------|------------|-------|----------|----------|------|---------------|-----------------------|-----------------------|
| weight of total dried material                    |            | N     | in house | g        |      | 148           | 126                   | 182                   |
| weight of removed material                        |            | N     | in house | g        |      | 13.9          | 26.3                  | 40.6                  |
| description of removed material                   |            | N     | in house | n/a      |      | Hardened clay | Hardened clay, shoots | Hardened clay, shoots |
| soil type                                         |            | N     | in house | n/a      |      | 1             | 1                     | 1                     |
| 2,4,6-trinitrophenol (picric acid)                | 88-89-1    | M     | 375      | mg/kg AD | 0.1  | < 0.1         | < 0.1                 | < 0.1                 |
| 2,4-dinitrotoluene                                | 121-14-2   | M     | 375      | mg/kg AD | 1    | < 1.0         | < 1.0                 | < 1.0                 |
| 2,6-dinitrotoluene                                | 606-20-2   | M     | 375      | mg/kg AD | 1    | < 1.0         | < 1.0                 | < 1.0                 |
| ethylene glycol dinitrate (EGDN)                  | 628-96-2   | M     | 374      | mg/kg AD | 0.1  | < 0.1         | < 0.1                 | < 0.1                 |
| cyclotetramethylenetetranitramine (HMX)           | 2691-41-0  | M     | 375      | mg/kg AD | 1    | < 1.0         | < 1.0                 | < 1.0                 |
| hexanitrostilbene (HNS)                           | 20062-22-0 | N     | 375      | mg/kg AD | 0.5  | < 0.5         | < 0.5                 | < 0.5                 |
| nitrocellulose (NC)                               | 9004-70-0  | U     | 376      | mg/kg    | 5000 | < 5000        | < 5000                | < 5000                |
| nitrocellulose (NC)                               | 9004-70-0  | N     | 377      | mg/kg    | 1000 | < 1000        | < 1000                | < 1000                |
| nitroglycerine (NG)                               | 55-63-0    | M     | 374      | mg/kg AD | 0.1  | < 0.1         | 0.2                   | < 0.1                 |
| pentaerythritol tetranitrate (PETN)               | 78-11-5    | M     | 375      | mg/kg AD | 5    | < 5.0         | < 5.0                 | < 5.0                 |
| picrite                                           | 556-88-7   | M     | 375      | mg/kg AD | 0.1  | < 0.10        | < 0.10                | < 0.10                |
| cyclo-1,3,5-trimethylene-2,4,6-trinitramine (RDX) | 121-82-4   | M     | 375      | mg/kg AD | 1    | < 1.0         | < 1.0                 | < 1.0                 |
| 2,4,6-trinitrotoluene (TNT)                       | 118-96-7   | M     | 375      | mg/kg AD | 0.5  | < 0.5         | < 0.5                 | < 0.5                 |
| trinitro-2,4,6-phenylmethylnitramine (tetryl)     | 479-45-8   | M     | 375      | mg/kg AD | 1    | < 1.0         | < 1.0                 | < 1.0                 |

## Deviating Samples

**Report No.: 22-20078-1**

**Customer Reference:** 22051400

**Customer Order No:** B171569BEC

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).

RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.

Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.

Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.

Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submission may be required.

| RPS No. | Customer No. | Customer ID | Date Sampled | Containers Received     | Deviating  | Reason for Deviation                               |
|---------|--------------|-------------|--------------|-------------------------|------------|----------------------------------------------------|
| 491459  | 22051400-001 |             | 09/05/2022   | 500ml plastic container | <b>Yes</b> | Temperature of samples exceeded in transit/storage |
| 491460  | 22051400-002 |             | 09/05/2022   | 500ml plastic container | <b>Yes</b> | Temperature of samples exceeded in transit/storage |
| 491461  | 22051400-003 |             | 09/05/2022   | 500ml plastic container | <b>Yes</b> | Temperature of samples exceeded in transit/storage |

**Report No.: 22-20078-1**

| Key Code         | Description                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------|
| U                | UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo       |
| F                | UKAS Flexible Scope Test                                                                            |
| M                | MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo |
| N                | Not Accredited Test                                                                                 |
| O                | Marine Management Organisation (MMO) Validated                                                      |
| S                | Subcontracted to approved laboratory                                                                |
| US               | Subcontracted to approved laboratory UKAS Accredited for the test                                   |
| MS               | Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test                            |
| SI               | Subcontracted to internal RPS Group laboratory                                                      |
| USI              | Subcontracted to internal RPS Group laboratory UKAS Accredited for the test                         |
| MSI              | Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test                  |
| I/S (in results) | Insufficient Sample                                                                                 |
| U/S (in results) | Unsuitable Sample                                                                                   |
| S/C (in results) | See Comments                                                                                        |
| ND (in results)  | Not Detected                                                                                        |
| AD (in units)    | Results are expressed on an air-dried basis at 30 °C                                                |
| DW (in units)    | Results are expressed on a dry weight basis at 105 °C                                               |

| Sample Type    | Sample Retention and Disposal Period                   |
|----------------|--------------------------------------------------------|
| Foodstuff      | 1 month (if frozen) from the issue date of this report |
| Waters         | 2 weeks from the issue date of this report             |
| Other Liquids  | 1 month from the issue date of this report             |
| Solids / Soils | 1 month from the issue date of this report             |
| Sediments      | 1 month from the issue date of this report             |

Note: Sample retention may be subject to agreement with the customer for particular projects

Where the dry solids value of a sample is low (<50%), reporting limits are automatically raised for all determinants analysed on an as-received basis.

| Soil Typing | Description                     |
|-------------|---------------------------------|
| Type 1      | Clay - Brown                    |
| Type 2      | Clay - Grey/Black               |
| Type 3      | Sand                            |
| Type 4      | Top Soil (Standard)             |
| Type 5      | Top Soil (High Peat)            |
| Type 6      | Made Ground (>50% Clay)         |
| Type 7      | Made Ground (>50% Sand)         |
| Type 8      | Made Ground (>50% Top Soil)     |
| Type X      | Other (outside of MCERTS scope) |

| Certificate Notes | Description                                                                                                                                                                                                                                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note 1            | This test report shall not be reproduced except in full, without written approval of the Laboratory.                                                                                                                                                                                                                                   |
| Note 2            | Unless otherwise stated, results are not corrected for analytical recoveries.                                                                                                                                                                                                                                                          |
| Note 3            | All samples were received in good condition unless otherwise stated. Results provided by the Laboratory are based on samples submitted by clients. Once submitted, samples requiring analysis are stored at 5 ± 3°C. The Laboratory cannot be held responsible for the storage, condition or preservation of samples prior to arrival. |
| Note 4            | Samples were taken by the customer and, unless otherwise stated, sampling locations were not supplied.                                                                                                                                                                                                                                 |
| Note 5            | Soil descriptions are given in order to provide a log of sample matrices submitted and are not intended as full geological descriptions.                                                                                                                                                                                               |
| Note 6            | Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.                                                                                                                                                                                                                                             |

Note for results expressed on an air-dried basis: Results for soil samples are reported based on the dry weight of soil which has been air-dried in open, shallow trays at temperatures below 30 °C and subsequently ground and sieved to pass through a nominal 710 µm aperture sieve. Prior to any grinding, any material which is retained on a sieve of mesh size 4.75mm is discarded. In most cases, analysis is carried out directly on these prepared soils.

Note: Where the following information is included in this certificate, it has usually been supplied by the customer: Customer Sample ID, Sample Location, Sample Depth, Sampling Date and Sampling Time. The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

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